IBM Tivoli Composite Application Manager Extended Agent for Oracle Database

Version 6.3.1 Fix Pack 1

User's Guide

SC27-4372-00

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Note
Before using this information and the product it supports, read the information in "Notices" on page 1015.

This edition applies to version 6.3.1 Fix Pack 1 of IBM Tivoli Composite Application Manager Extended Agent for Oracle Database (product number 5724-V09) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Chapter 1. Overview of the agent

The IBM Tivoli Composite Application Manager Extended Agent for Oracle Database provides you with the capability to monitor Oracle Database. You can also use the agent to take basic actions with the Oracle Database.

IBM® Tivoli® Monitoring is the base software for the Oracle Database Extended agent. The Oracle Database Extended agent monitors Oracle RAC performance, Oracle ASM performance, General Oracle database performance, and Data Guard performance.

IBM Tivoli Monitoring

IBM Tivoli Monitoring provides a way to monitor the availability and performance of all the systems in your enterprise from one or several designated workstations. It also provides useful historical data that you can use to track trends and to troubleshoot system problems.

You can use IBM Tivoli Monitoring to achieve the following tasks:

- Monitor for alerts on the systems that you are managing by using predefined situations or custom situations.
- Establish your own performance thresholds.
- Trace the causes leading to an alert.
- Gather comprehensive data about system conditions.
- Use policies to take actions, schedule work, and automate manual tasks.

The Tivoli Enterprise Portal is the interface for IBM Tivoli Monitoring products. You can use the consolidated view of your environment as seen in the Tivoli Enterprise Portal to monitor and resolve performance issues throughout the enterprise.

See the IBM Tivoli Monitoring publications listed in “Prerequisite publications” on page 1009 for complete information about IBM Tivoli Monitoring and the Tivoli Enterprise Portal.

Features of the Oracle Database Extended agent

Use the Oracle Database Extended agent software to monitor Oracle RAC (Real Application Clusters) databases, ASM (Automatic Storage Management) databases, normal databases, which have a single Oracle instance for each Oracle database, and Oracle Data Guard. Use the software to identify, notify you of, and correct common problems with the application that it monitors. The software includes the following features:

- Remote database monitoring

  You can install the Oracle Database Extended agent on a different workstation from the one where the Oracle database to be monitored is running.
- Multiple agent instances monitoring

  You can configure and start multiple agent instances.
- Multiple database connections monitoring in one agent instance

  You can define multiple database connections to monitor multiple Oracle database by using one agent instance.
- Agent events monitoring

  You can find detail information about all triggered events in the Database Connection workspace, and determine the problem with the monitored database.

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- Oracle database monitoring

  The agent monitors Oracle RAC (Real Application Clusters) databases, ASM (Automatic Storage Management) databases, and normal databases, which have a single Oracle instance for each Oracle database.
- Data Guard monitoring

  Data Guard provides a set of services that create and maintain standby databases. These standby databases are used to enable Oracle databases to switch one standby database to production role in case the primary database is unavailable because of planned or unplanned outage.

  The agent monitors the Data Guard configuration, the transport activities of redo logs between the primary database and standby databases, the Redo Apply at physical standby databases, and SQL Apply at logical databases.
- Topology views for RDBMS (relational database management system) databases, including RAC databases, and for ASM databases
  - For RDBMS database connections, including RAC database connections, the agent provides the relationship between the following components:
    - Services
    - RDBMS instances
    - Database
  - For ASM database connection, the agent provides the relationship between the following components:
    - RDBMS instances
    - Database
    - ASM instances
    - ASM disk groups
    - ASM disk

Functions of the monitoring agent

The Oracle Database Extended agent provides the following functions for Oracle Database 10g release 1, Oracle Database 10g release 2, Oracle Database 11g release 1, and Oracle Database 11g release 2:

Oracle RAC performance monitoring

Oracle Real Application Clusters (RAC) enables a single database to run across a cluster of servers. The most important services in RAC are GCS (Global Cache Services) and GES (Global Enqueue Service). The Oracle Database Extended agent provides the following features to monitor those two services:

- GCS monitoring

  Information about the following items is provided:
  - GCS Memory: the memory that currently used by GCS
  - GCS Current Block: the received time and served time of the current block
  - GCS Block Lost: the percentage of block lost during the transfer
  - GCS CR Latency: the received time and served time of the CR block
  - GCS Waits: the waiting sessions that are related to GCS
  - Cache Fusion: the ratio of cache fusion
- GES monitoring

  Information about the following items is provided:
  - GES Enqueue Statistics: the contents statistics in GES
  - GES Latency: the latency statistics in GES
  - GES Lock: current locks in GES

- GES Memory: the memory that currently used by GES
- Messaging Statistics: the time to process messages in GCS and GES

Oracle ASM performance monitoring

Oracle ASM is a volume manager and a file system for Oracle database files. The following features are provided for ASM monitoring:

- ASM topology monitoring, providing the topology of ASM instances, ASM disk groups, and ASM disks
- ASM alert log monitoring
- ASM availability monitoring
- ASM capacity monitoring, providing information about ASM disk groups, ASM disks, and ASM files.
- ASM IO statistics, providing the I/O statistics of ASM disk groups, I/O statistics of ASM disks, and information about ASM operations.

General Oracle database performance monitoring

The Oracle Database Extended agent provides monitoring for the availability, performance, resource usage, and activities of the Oracle database.

- Availability of instances in the monitored Oracle database
- Resource information such as memory, caches, segments, resource limitation, tablespace, undo (rollback), system metric, and system statistics
- Activity information such as OS statistics, sessions, contention, and alert log

Data Guard performance monitoring

This function provides information about alert logs, Data Guard configuration, Redo Apply, SQL Apply, and transport of redo logs.

New in this release

For version 6.3.1 Fix Pack 1 of the Oracle Database Extended agent, the following enhancements have been made since version 6.3.1:

- Added new attributes, including Host Name, Instance Name, and Database Name in 136 attribute groups
- Added new product predefined queries with names ending with _V3 (for example, RDB Archive Dest_V3). Compared with those without _V3, these attribute groups add attributes, including Host Name, Instance Name, and Database Name.
- Added a delta value for system level statistics data
- User interface configuration improvements, such as connection name validation, make the connection name editable.
- New environment variables you can use to customize the agent, such as **KRZ_LOAD_ORACLE_NET**, **KRZ_LISTENER_PING_INTERVAL**, **KRZ_TNS_PING_INTERVAL**, **KRZ_SUBNODE_INCLUDING_AGENTNAME**, **KRZ_SUBNODE_INCLUDING_HOSTNAME, KRZ_MAX_SUBNODE_ID_LENGTH,**, and **KRZ_CHECK_ORACLE_PRIVILEGE**
  - Provided the option to control whether monitoring the listener and Oracle net service (**KRZ_LOAD_ORACLE_NET**), and the option to control the interval for monitoring the listener and Oracle net service (**KRZ_LISTENER_PING_INTERVAL** and **KRZ_TNS_PING_INTERVAL**).
  - Agent subnode customization (**KRZ_SUBNODE_INCLUDING_AGENTNAME**, **KRZ_SUBNODE_INCLUDING_HOSTNAME**, and **KRZ_MAX_SUBNODE_ID_LENGTH**).
  - Provided the option (**KRZ_CHECK_ORACLE_PRIVILEGE**) to check all default Oracle privileges in the `krzgrant.sql` file when an agent instance starts.
- Added support for RDB Disk Space monitoring for the Oracle Archive directory on an SAP system.
- RAC One support

- The self-describing agent feature makes it possible for a new or updated agent to become operational after installation, without having to perform additional product support installation steps.

Components of the IBM Tivoli Monitoring environment

After you install and set up the Oracle Database Extended agent, you have an environment that contains the client, server, and monitoring agent implementation for Tivoli Monitoring.

This Tivoli Monitoring environment contains the following components:

Tivoli Enterprise Portal client
The portal has a user interface based on Java for viewing and monitoring your enterprise.

Tivoli Enterprise Portal Server
The portal server is placed between the client and the Tivoli Enterprise Monitoring Server and enables retrieval, manipulation, and analysis of data from the monitoring agents. The Tivoli Enterprise Portal Server is the central repository for all user data.

Tivoli Enterprise Monitoring Server
The monitoring server acts as a collection and control point for alerts received from the monitoring agents, and collects their performance and availability data. The Tivoli Enterprise Monitoring Server is also a repository for historical data.

Tivoli Enterprise Monitoring Agent, Oracle Database Extended agent (one or more instances of the monitoring agent).
The instances communicate with the systems or subsystems that you want to monitor. This monitoring agent collects and distributes data to a Tivoli Enterprise Portal Server.

IBM Tivoli Netcool/OMNIbus
Tivoli Netcool/OMNIbus is an optional component and the recommended event management component. The Netcool/OMNIbus software is a service level management (SLM) system that delivers real-time, centralized monitoring of complex networks and IT domain events. Event information is tracked in a high-performance, in-memory database and presented to specific users through individually configurable filters and views. The software includes automation functions that you can use to perform intelligent processing on managed events. You can use this software to forward events for Tivoli Monitoring situations to Tivoli Netcool/OMNIbus.

IBM Tivoli Enterprise Console®
The Tivoli Enterprise Console is an optional component that acts as a central collection point for events from various sources, including events from other Tivoli software applications, Tivoli partner applications, custom applications, network management platforms, and relational database systems. You can view these events through the Tivoli Enterprise Portal (by using the event viewer), and you can forward events from Tivoli Monitoring situations to the Tivoli Enterprise Console component. If you do not already use Tivoli Enterprise Console and need an event management component, you can choose to use IBM Tivoli Netcool/OMNIbus.

The Tivoli Business Service Manager component delivers real-time information to help you respond to alerts effectively based on business requirements. Optionally, you can use this component to meet service-level agreements (SLAs). Use the Tivoli Business Service Manager tools to help build a service model that you can integrate with Tivoli Netcool/OMNIbus alerts or optionally integrate with data from an SQL data source. Optional components provide access to data from other IBM Tivoli applications such as Tivoli Monitoring and TADDM.

Agent Management Services

You can use IBM Tivoli Monitoring Agent Management Services to manage the Oracle Database Extended agent.

Agent Management Services is available for the following IBM Tivoli Monitoring OS agents: Windows, Linux, and UNIX. The services are designed to keep the Oracle Database Extended agent available, and to provide information about the status of the product to the Tivoli Enterprise Portal. For more information about Agent Management Services, see "Agent Management Services" in the *IBM Tivoli Monitoring Administrator's Guide*.

User interface options

Installation of the base IBM Tivoli Monitoring software and other integrated applications provides various interfaces that you can use to work with your resources and data.

The following interfaces are available:

Tivoli Enterprise Portal user interface
You can run the Tivoli Enterprise Portal as a desktop application or a browser application. The client interface is a graphical user interface (GUI) based on Java on a Windows or Linux workstation. The browser application is automatically installed with the Tivoli Enterprise Portal Server. The desktop application is installed by using the Tivoli Monitoring installation media or with a Java Web Start application. To start the Tivoli Enterprise Portal browser client in your Internet browser, enter the URL for a specific Tivoli Enterprise Portal browser client installed on your Web server.

Command-line interface
You can use Tivoli Monitoring commands to manage the Tivoli Monitoring components and their configuration. You can also run commands at the Tivoli Enterprise Console event server or the Tivoli Netcool/OMNIbus ObjectServer to configure event synchronization for enterprise situations.

Manage Tivoli Enterprise Monitoring Services window
You can use the window for the Manage Tivoli Enterprise Monitoring Services utility to configure the agent and start Tivoli services not designated to start automatically.

IBM Tivoli Netcool/OMNIbus event list
You can use the Netcool/OMNIbus event list to monitor and manage events. An event is created when the Netcool/OMNIbus ObjectServer receives an event, alert, message, or data item. Each event is made up of columns (or fields) of information that are displayed in a row in the ObjectServer alerts.status table. The Tivoli Netcool/OMNIbus web GUI is also a web-based application that processes network events from one or more data sources and presents the event data in various graphical formats.

IBM Tivoli Enterprise Console
You can use the Tivoli Enterprise Console to help ensure the optimal availability of an IT service for an organization. The Tivoli Enterprise Console is an event management application that integrates system, network, database, and application management. If you do not already use Tivoli Enterprise Console and need an event management component, you can choose to use Tivoli Netcool/OMNIbus.

Chapter 2. Agent installation and configuration

Agent installation and configuration requires the use of the *IBM Tivoli Monitoring Installation and Setup Guide* and agent-specific installation and configuration information.

To install and configure the Oracle Database Extended agent, use the "Installing monitoring agents" procedures in the *IBM Tivoli Monitoring Installation and Setup Guide* along with the agent-specific installation and configuration information.

If you are installing silently by using a response file, see "Performing a silent installation of IBM Tivoli Monitoring" in the *IBM Tivoli Monitoring Installation and Setup Guide*.

With the self-describing agent capability, new or updated IBM Tivoli Monitoring agents using IBM Tivoli Monitoring V6.2.3 or later can become operational after installation without having to perform additional product support installation steps. To take advantage of this capability, see "Enabling self-describing agent capability at the hub monitoring server" in the *IBM Tivoli Monitoring Installation and Setup Guide*. Also, see "Self-describing monitoring agents" in the *IBM Tivoli Monitoring Administrator's Guide*.

Requirements

Before installing and configuring the agent, make that sure your environment meets the requirements for the IBM Tivoli Composite Application Manager Extended Agent for Oracle Database.

For information about system requirements, see the Prerequisites topic (http://publib.boulder.ibm.com/infocenter/tivihelp/v24r1/topic/com.ibm.itcama.doc_7.1/prerequisites/apps71_systemreqs.html) in the IBM Tivoli Composite Application Manager for Applications Information Center.

Language pack installation

The steps for installing language packs depend on which operating system and mode of installation you are using.

To install a language pack for the agent support files on the Tivoli Enterprise Monitoring Server, the Tivoli Enterprise Monitoring Agent, and the Tivoli Enterprise Portal Server, make sure that you installed the product in the English language. Then use the steps for the operating system or mode of installation you are using:

- "Installing language packs on Windows systems"
- "Installing language packs on UNIX or Linux systems" on page 8
- "Silent installation of language packs on Windows, UNIX, or Linux systems" on page 8

Installing language packs on Windows systems

You can install the language packs on a Windows system.

Before you begin

First, make sure that you installed the product in the English language.

Procedure

1. On the language pack CD, double-click the `lpinstaller.bat` file to start the installation program.
2. Select the language of the installer and click **OK**.
3. In the Introduction panel, click **Next**

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4. Click **Add/Update** and click **Next**.
5. Select the folder where the National Language Support package (`NLSPackage`) files are located. Typically, the NLSPackage files are located in the `nlspackage` folder where the installer executable file is located.
6. Select the language support for the agent of your choice and click **Next**. To make multiple selections, press Ctrl and select the language that you want.
7. Select the languages that you want to install and click **Next**.
8. Examine the installation summary page and click **Next** to begin installation.
9. After installation completes, click **Finish** to exit the installer.
10. Restart the Tivoli Enterprise Portal, Tivoli Enterprise Portal Server, and Eclipse Help Server if any of these components are installed.

Installing language packs on UNIX or Linux systems

You can install the language packs on a UNIX or Linux system.

Before you begin

First, make sure that you installed the product in the English language.

Procedure

1. Enter the `mkdir` command to create a temporary directory on the computer, for example, `mkdir` *`dir_name`*. Make sure that the full path of the directory does not contain any spaces.
2. Mount the language pack CD to the temporary directory that you created.
3. Enter the following command to start the installation program: `cd` *`dir_name`* `lpinstaller.sh -c` *`install_dir`* where *install_dir* is where you installed IBM Tivoli Monitoring. Typically, the directory name is `/opt/IBM/ITM` for UNIX and Linux systems.
4. Select the language of the installer and click **OK**.
5. In the Introduction panel, click **Next**.
6. Click **Add/Update** and click **Next**.
7. Select the folder where the National Language Support package (`NLSPackage`) files are located. Typically, the `NLSPackage` files are located in the `nlspackage` folder where the installer executable file is located.
8. Select the language support for the agent of your choice and click **Next**. To make multiple selections, press Ctrl and select the language that you want.
9. Select the languages that you want to install and click **Next**.
10. Examine the installation summary page and click **Next** to begin installation.
11. After installation completes, click **Finish** to exit the installer.
12. Restart the Tivoli Enterprise Portal, Tivoli Enterprise Portal Server, and Eclipse Help Server if any of these components are installed.

Silent installation of language packs on Windows, UNIX, or Linux systems

You can use the silent-mode installation method to install the language packs. In silent mode, the installation process obtains the installation settings from a predefined response file. It does not prompt you for any information.

Before you begin

First, make sure that you installed the product in the English language.

Procedure

1. Copy and paste the `ITM_Agent_LP_silent.rsp` response file template as shown in "Response file example."
2. Change the following parameter settings:

   NLS_PACKAGE_FOLDER
   Folder where the National Language Support package (NLSPackage) files are located. Typically, the NLSPackage files are located in the `nlspackage` folder, for example: `NLS_PACKAGE_FOLDER = //tmp//LP//nlspackage`.

   PROD_SELECTION_PKG
   Name of the language pack to install. Several product components can be included in one language package. You might want to install only some of the available components in a language pack.

   BASE_AGENT_FOUND_PKG_LIST
   Agent for which you are installing language support. This value is usually the same as *PROD_SELECTION_PKG*.

   LANG_SELECTION_LIST
   Language you want to install.
3. Enter the command to install the language pack with a response file (silent installation):
   - For Windows systems:
     `lpinstaller.bat -f path_to_response_file`
   - For UNIX or Linux systems:
     `lpinstaller.sh -c candle_home -f path_to_response_file`

     where *candle_home* is the IBM Tivoli Monitoring base directory.

Response file example

```
#     IBM Tivoli Monitoring Agent Language Pack Silent Installation Operation
#
#This is a sample response file for silent installation mode for the IBM Tivoli
#Monitoring Common Language Pack Installer.
#.
#This file uses the IBM Tivoli Monitoring Common Agent Language Pack with the
#install package as an example.
#Note:
#This response file is for the INSTALLATION of language packs only.
#This file does not support UNINSTALLATION of language packs in silent mode.
#-----------------------------------------------------------------------------
#-----------------------------------------------------------------------------
#To successfully complete a silent installation of the the example of Common Agent
#localization pack, complete the following steps:
#
#1.Copy ITM_Agent_LP_silent.rsp to the directory where lpinstaller.bat or
#lpinstaller.sh is located (IBM Tivoli Monitoring Agent Language Pack build
#location).
#
#2.Modify the response file so that it is customized correctly and completely for
#your site.
#  Complete all steps listed below in the response file.
#
#3.After customizing the response file, invoke the silent installation using the
#following command:
#For Windows:
#    lpinstaller.bat -f <path_to_response_file>
#For UNIX and Linux:
#    lpinstaller.sh -c <candle_home> -f <path_to_response_file>
#Note:<candle_home> is the IBM Tivoli Monitoring base directory.
#-----------------------------------------------------------------------------
```

```
#-------------------------------------------------------------------------------
#Force silent install mode.
#-------------------------------------------------------------------------------
INSTALLER_UI=silent

#-------------------------------------------------------------------------------
#Run add and update actions.
#-------------------------------------------------------------------------------
CHOSEN_INSTALL_SET=ADDUPD_SET

#-------------------------------------------------------------------------------
#NLS Package Folder, where the NLS Packages exist.
#For Windows:
#   Use the backslash-backslash(\\) as a file separator (for example,
#C:\\zosgmv\\LCD7-3583-01\\nlspackage).
#For UNIX and Linux:
#   Use the slash-slash (//) as a file separator (for example,
#//installtivoli//lpsilenttest//nlspackage).
#-------------------------------------------------------------------------------
#NLS_PACKAGE_FOLDER=C:\\zosgmv\\LCD7-3583-01\\nlspackage
NLS_PACKAGE_FOLDER=//tmp//LP//nlspackage

#-------------------------------------------------------------------------------
#List the packages to process; both variables are required.
#Each variable requires that full paths are specified.
#Separate multiple entries with a semicolon (;).
#For Windows:
#           Use the backslash-backslash(\\) as a file separator.
#For Unix and Linux:
#           Use the slash-slash (//) as a file separator.
#-------------------------------------------------------------------------------
#PROD_SELECTION_PKG=C:\\zosgmv\\LCD7-3583-01\\nlspackage\\KIP_NLS.nlspkg
#BASE_AGENT_FOUND_PKG_LIST=C:\\zosgmv\\LCD7-3583-01\\nlspackage\\KIP_NLS.nlspkg
PROD_SELECTION_PKG=//tmp//LP//nlspackage//kex_nls.nlspkg;//tmp//LP//nlspackage//
koq_nls.nlspkg
BASE_AGENT_FOUND_PKG_LIST=//tmp//LP//nlspackage//kex_nls.nlspkg;//
tmp//LP//nlspackage//koq_nls.nlspkg

#-------------------------------------------------------------------------------
#List the languages to process.
#Separate multiple entries with semicolons.
#-------------------------------------------------------------------------------
LANG_SELECTION_LIST=pt_BR;fr;de;it;ja;ko;zh_CN;es;zh_TW
```

Agent-specific installation and configuration

In addition to the installation and configuration information in the *IBM Tivoli Monitoring Installation and Setup Guide,* use the agent-specific installation and configuration information to install the Oracle Database Extended agent.

Agent-specific installation and configuration includes the following procedures:

- "Granting privileges" on page 11
- "Naming conventions for agent instances and database connections" on page 14
- "Local configuration" on page 17
- "Remote installation and configuration" on page 26
- "Setting environment variables" on page 29
- "Customizing Oracle alert log monitoring" on page 32
- "Defining and running customized SQL statements" on page 33
- "Starting or stopping the agent" on page 34

Granting privileges

After installing the agent, you must grant privileges to the Oracle user account that is used by the Oracle Database Extended agent.

You can grant privileges for the following users:

- RDBMS instance users
- ASM instances Non-SYS users
- Data Guard users

Granting privileges to users for RDBMS instances

For RDBMS instances, the Oracle user ID that the Oracle Database Extended agent uses must have select privileges on the dynamic performance views, tables, and data dictionary views that are required by the agent, and must have other Oracle object privileges and system privileges that are necessary to run Take Action commands.

About this task

Procedure

The procedure for granting privileges includes the following actions:

- If an Oracle database user ID does not exist, create this ID by using Oracle facilities and running the following command: `create user` *`UserName`* `identified by` *`Password`*
- Grant select privileges on the dynamic performance views, tables, and data dictionary views to the Oracle user ID that you created by running the **`krzgrant.sql`** script that is provided with the Oracle Database Extended agent.

  Disclaimer: The select privileges for the dynamic performance views, tables, and data dictionary views rely on the capabilities of Oracle database in specific application environments. You may grant authorized Oracle privileges to the Oracle database user ID only for the dynamic performance views, tables, and data dictionary views that are used by the Oracle Database Extended agent.

  Grant select privileges before you configure the Oracle Database Extended agent. For directions about how to customize and run the **`krzgrant.sql`** script, see “Customizing the krzgrant.sql script” and “Running the **`krzgrant.sql`** script” on page 12.
- Grant other Oracle object privileges and system privileges to the Oracle user ID that the Oracle Database Extended agent uses by using Oracle facilities. Before you run Take Action commands, make sure that the Oracle user ID has the necessary privileges.

Customizing the krzgrant.sql script: If you do not have Oracle authorized select privileges on some dynamic performance views, tables, and data dictionary views in the **`krzgrant.sql`** script, you can customize the **`krzgrant.sql`** script before running it.

Note: The: agent instance checks all default privileges in the **`krzgrant.sql`** script and reports an agent event with a lack of privileges when the agent starts. You can disable privilege checking by using the following variable setting: KRZ_CHECK_ORACLE_PRIVILEGE=FALSE. The test connection step of GUI configuration checks all Oracle privileges defined in the `krzgrant.sql` file. If you confirm that the Oracle user has the correct privileges, ignore that checking privileges fails in the test connection step.

Edit the `krzgrant.sql` file in a plain text editor to remove or add the '--' prefix at the beginning of grant statements to skip the granting execution for those unauthorized Oracle tables or views.

For example, change the following lines:

```
execute immediate 'grant select on DBA_HIST_SNAPSHOT to '||userName;
 execute immediate 'grant select on DBA_HIST_SQLSTAT to '||userName;
 execute immediate 'grant select on DBA_HIST_SQLTEXT to '||userName;
 execute immediate 'grant select on DBA_HIST_SQL_PLAN to '||userName;
 execute immediate 'grant select on DBA_HIST_SYSMETRIC_SUMMARY to '||userName;
```

to these lines:

```
-- execute immediate 'grant select on DBA_HIST_SNAPSHOT to '||userName;
-- execute immediate 'grant select on DBA_HIST_SQLSTAT to '||userName;
-- execute immediate 'grant select on DBA_HIST_SQLTEXT to '||userName;
-- execute immediate 'grant select on DBA_HIST_SQL_PLAN to '||userName;
-- execute immediate 'grant select on DBA_HIST_SYSMETRIC_SUMMARY to '||userName;
```

Running the krzgrant.sql script:
About this task

Important:

- The krzgrant.sql is not applicable for ASM instances. Run the **krzgrant.sql** script for RDBMS instances. For logical standby databases, grant permissions on the primary database, and the permissions are replicated to standby databases.
- If you do not run the **krzgrant.sql** script, an event is issued in the agent event workspace.
- Before beginning this procedure, perform the appropriate installation procedures in the IBM Tivoli Monitoring Installation and Setup Guide.

After the installation, you can find the **krzgrant.sql** script in the following directory:

- Windows x86 systems: `install_dir\TMAITM6`
- Windows x64 systems: `install_dir\TMAITM6_X64`
- UNIX and Linux systems: `install_dir/arch/rz/bin`

Where:

install_dir
Installation directory for the Oracle Database Extended agent.

arch IBM Tivoli Monitoring system architecture identifier. For example, li6263 represents Linux Intel v2.6 (32 bit).

The **krzgrant.sql** script has the following usage: `krzgrant.sql` *user_ID temporary_directory*

Where:

user_ID
The ID of the Oracle user. This user ID must be created before running this sql file. Example value: tivoli.

temporary_directory
The name of the temporary directory that contains the `krzagent.log` output file of the **krzgrant.sql** script. This directory must exist before running this SQL script. Example value: `/opt/IBM/ITM/tmp`.

You must have the Oracle database administrator (DBA) authorization role and write permission to the temporary directory to perform the following procedure.

Procedure

1. From the command line, run the commands to set environment variables.
   - Windows systems:

     ```
     SET ORACLE_SID= sid
     SET ORACLE_HOME= home
     ```

- UNIX or Linux systems

  ```
  ORACLE_SID = sid
  export ORACLE_SID
  ORACLE_HOME = home
  export ORACLE_HOME
  ```

  Where:

  sid Oracle system identifier, which is case-sensitive.

  home Home directory for the monitored Oracle instance.

2. From the same command-line window where you set environment variables, start the Oracle SQL Plus or an alternative tool that you use to issue SQL statements.
3. Log on to the Oracle database as a user that has Oracle DBA privileges.
4. Navigate to the directory that contains the **krzgrant.sql** script and run the following command to grant select privileges:

   ```
   @krzgrant.sql user_ID temporary_directory
   ```

   The output is logged in the `krzagent.log` file in the temporary directory. This log records the views and tables to which the Oracle Database Extended agent is granted select privileges.

   After the privileges are successfully granted, you can configure and start the Oracle Database Extended agent.

Granting privileges to non-SYS users for ASM instances

About this task

You must connect to ASM instances that are using the SYSDBA and SYSASM roles for users. If you do not want to use the SYS account to connect to ASM instances, create a user account and grant the SYSDBA and SYSASM roles to the account.

Procedure

1. Run the following commands to create a user account and grant roles:
   - For Oracle 10g

     Important: Oracle 10g does not have the SYSASM role and does not support creating a new database user in the ASM instance directly using sqlplus.

     When you create the ASM connection in the configuration panel, specify the UserName user and the SYSDBA role for Oracle Database 10g. Use only the SYSDBA role. The UserName must be created first.

     a. Set the **ORACLE_HOME** and **ORACLE_SID** environment variables as `RDBMS home/sid`:
        - Windows systems:

          ```
          SET ORACLE_SID= sid
          SET ORACLE_HOME= home
          ```

        - UNIX or Linux systems:

          ```
          export ORACLE_SID = sid
          export ORACLE_HOME = home
          ```

     b. Create the database user by logging in to RDBMS in sqlplus, and creating a new user:
        - create user UserName identified by Password
        - connect / as sysdba
        - grant sysdba to UserName

     c. Rename the original ASM password file:
        1) Back up the ASM password file:

           ```
           mv password file for asm instance password file for asm instance.orig
           ```

        2) Copy the RDBMS password file and rename the file with the ASM password file name:

```
cp password file for database instance password file for asm instance
```

d. Verify the connection to ASM on a separate computer with UserName in sqlplus SQL> connect UserName/Password as sysdba.

- For Oracle 11g

  For Oracle 11g, you must log in to the ASM database with the SYSASM role to create a new user for a Tivoli agent, and grant the SYSDBA role or SYSASM role:

```
create user UserName identified by Password
grant sysdba to UserName
or
grant sysasm to UserName
```

2. When you create the ASM connection in the configuration panel, specify the *UserName* user and the SYSDBA role for Oracle Database 10g, and the *UserName* user and the SYSDBA or SYSASM role for Oracle 11g.

   Note: If you choose the SYSASM role to access the Oracle 11g ASM database, you must configure the agent instance by using Oracle 11g Oracle home or Oracle instant client to connect to the Oracle database.

Granting privileges to users for Data Guard

For logical standby databases, grant permissions on the primary database, and the permissions are replicated to standby databases. For instructions on granting permissions for the primary database, see "Granting privileges to users for RDBMS instances" on page 11.

The physical standby database is a read-only database, and cannot be modified. You can use only the SYS user to monitor the physical standby database.

Naming conventions for agent instances and database connections

Follow the naming conventions when you name an agent instance or a database connection.

The Oracle Database Extended agent instances and monitored database connections are represented by the following nodes and subnodes in the Navigator tree:

Agent instance :RZ node
This node is an agent instance.

RDB connection :RDB subnode
Each node is an individual Oracle RDB (relational database) connection.

ASM connection :ASM subnode
Each node is an individual Oracle ASM connection.

DG connection :DG subnode
Each node is an individual Oracle Data Guard connection.

For directions regarding how to set the agent instance name and database connection name, see "Local configuration" on page 17 for local instances, and "Remote installation and configuration" on page 26 for remote agent instances.

Default naming conventions for agent instance nodes

Follow the naming conventions when you name an agent instance.

For RZ nodes, the following part of the node name must not be longer than 32 characters:

Instance:*Hostname*:rz

Where:

Instance
Name of the agent instance.

Hostname
Name of the system where the agent is running.

Depending on the instance number, the node name varies:

- When a single instance of the Oracle Database Extended agent is defined on a system, the node for the agent instance has the following name:

  Oracle Database Extended - *Instance*:*Hostname*:rz
- When multiple instances of the Oracle Database Extended agent are defined on a system, a node that is called *Instance*:*Hostname*:rz is created for each agent instance. All the nodes are in a folder that is called `Oracle Database Extended`.

If the *Instance*:*Hostname*:RZ part is longer than 32 characters, *Instance*:*Hostname* is truncated. After the truncation, if there are agent instances with the same node or subnode name, and these agent instances are connected to the same hub Tivoli Enterprise Monitoring Server, the agent instances do not work correctly.

Default naming conventions for database connection subnodes

Follow the naming conventions when you name a database connection.

For RDB subnodes, ASM subnodes, and DG subnodes, the subnode ID part of a subnode name must not be longer than 24 characters:

DBConnection-Instance-Hostname

Where: *DBConnection* is an alias that you set for the database connection.

Depending on the database connection number, the subnode name varies:

- When a single database connection is defined for an agent instance, the subnode name has the following format:
  - RDB subnodes: Oracle RDBMS-RZ:*subnode_ID*:RDB
  - ASM subnodes: Oracle ASM-RZ:*subnode_ID*:ASM
  - DG subnodes: Oracle Data Guard-RZ:*subnode_ID*:DG
- When multiple database connections are defined for an agent instance, the subnodes are in folders:
  - The RDB subnodes are in the Oracle RDBMS folder, and a subnode that is called RZ:*subnode_ID*:RDB is created for each RDB connection.
  - The ASM subnodes are in the Oracle ASM folder, and a subnode that is called RZ:subnode_ID:ASM is created for each ASM connection.
  - The DG subnodes are contained in the Oracle Data Guard folder, and a subnode that is called RZ:*subnode_ID*:DG is created for each Data Guard connection.

If the subnode ID is longer than 24 characters, it is truncated. After the truncation, if there are database connections with the same subnode name under the same hub Tivoli Enterprise Monitoring Server, the monitoring for these database connections does not work correctly. Also, for a subnode with a truncated subnode ID, the Agent_Event, RDB_Alert_Log_Details, or ASM_Alert_Log_Details situation is not issued if the conditions for any of these situations are met. To avoid the subnode being truncated, reduce the length of the database connection name, agent instance name, or hostname; or, see “Changing default naming conventions for database connections” for information.

Changing default naming conventions for database connections

To avoid a subnode name that is truncated, change the subnode naming convention by using environment variables.

To avoid a subnode name that is truncated, change the subnode naming convention by setting the following environment variables: **KRZ_SUBNODE_INCLUDING_AGENTNAME**, **KRZ_SUBNODE_INCLUDING_HOSTNAME**, and **KRZ_MAX_SUBNODE_ID_LENGTH**.

If you set **KRZ_SUBNODE_INCLUDING_AGENTNAME** to NO, the subnode ID part of the subnode name does not include the agent instance name. For example:

- Default subnode name: *DBConnection-Instance-Hostname*
- Subnode name with environment variable set to NO: *DBConnection-Hostname*

If you set **KRZ_SUBNODE_INCLUDING_HOSTNAME** to NO, the subnode ID part of the subnode name does not include the host name. For example:

- Default subnode name: *DBConnection-Instance-Hostname*
- Subnode name with environment variable set to NO: *DBConnection-Instance*

The **KRZ_MAX_SUBNODE_ID_LENGTH** environment variable controls the maximum length of the subnode ID for the subnode name. The default value is 24.

Note: In 6.3.1-TIV-ITM_KRZ-IF0001 and 6.3.1-TIV-ITM_KRZ-IF0002, the environment variable is named KRZ_MAX_SUBNODE_NAME_LENGTH. In this release, this environment variable is renamed as KRZ_MAX_SUBNODE_ID_LENGTH. To be compatible with old releases, KRZ_MAX_SUBNODE_NAME_LENGTH continues to work.

Installation and configuration considerations

The Oracle Database Extended agent supports local monitoring and remote monitoring.

Differences between local and remote monitoring

Table 1 contains a comparison of the two different ways of monitoring.

Table 1. Comparison of local and remote monitoring

Feature	Local	Remote
Installation on Oracle Server computer	Yes	No
Oracle physical disk usage monitoring	Yes	Not supported
Oracle alert log monitoring	Yes	Yes, requires mounting the log directory for the remote computer to a local computer, and requires specifying the mount path at agent configuration.
Other monitoring features	Yes	Yes
Maintenance effort	A large effort requires applying an agent patch on each Oracle server computer.	A small effort requires applying a patch on the computer on which the agent is installed one time.

Best practice: number of agent instances and database connections on one system

The best practice involves considering the number of agent instances and database connections on one system. 10 agent instances times 5 database connections (monitoring 50 databases on one system) is optimal. The performance of the agent depends on system performance, network performance, and most importantly the number of data requests, including situation and historical data collection. With fewer data requests for one database, more databases can be monitored on one system. As a best practice, first configure 10 agent instances times 5 database connections, and observe performance, such as the length

of the response time for the data request. If the performance is acceptable, you can consider monitoring more databases on the system; if not acceptable, set up another system with the Oracle Database Extended agent installed.

Local configuration

On Windows, UNIX, and Linux systems, you can configure the Oracle Database Extended agent through the Manage Tivoli Enterprise Monitoring Services tool or the command line. You can also configure the agent silently on UNIX and Linux systems.

Important: The Oracle Database Extended agent does not support silent configuration on Windows systems.

To configure an Oracle Database Extended agent instance, complete the configuration procedure depending on which operating system you are using:

- Windows systems
  - Configuring the agent through theManage Tivoli Enterprise Monitoring Services tool on Windows systems
- UNIX and Linux systems
  - Configuring the agent through the Manage Tivoli Enterprise Monitoring Services tool on UNIX and Linux systems
  - Configuring the agent through the command line on UNIX and Linux systems
  - Configuring the agent silently on UNIX and Linux systems

Configuring the agent through the Manage Tivoli Monitoring Services tool on Windows systems

On Windows systems, you can configure the Oracle Database Extended agent through the Manage Tivoli Enterprise Monitoring Services tool.

Procedure

1. To open the Manage Tivoli Enterprise Monitoring Services window, click **Start** > **Programs** > **IBM Tivoli Monitoring** > **Manage Tivoli Monitoring Services**.
2. Right-click the **Monitoring Agent for Oracle Database Extended** item with the **Task/SubSystem** column value of **Template**, and click **Configure Using Defaults**.
3. Enter a unique instance name, and click **OK**. Only letters, Arabic numerals, the underline character, and the minus character can be used in the instance name.

   Important: Do not create an instance name with a long length. For the length limitation of instance names, follow the conventions in “Default naming conventions for agent instance nodes” on page 14 when you name the agent instance.

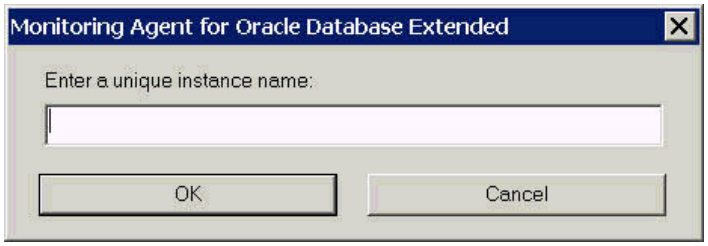

Figure 1. Entering the instance name for the agent

4. In the **Default Configuration** section of the Agent Configuration window, complete the fields as required for your site. You can select **Show Advanced Options** to show the advanced options. For

descriptions of these fields, see Table 2

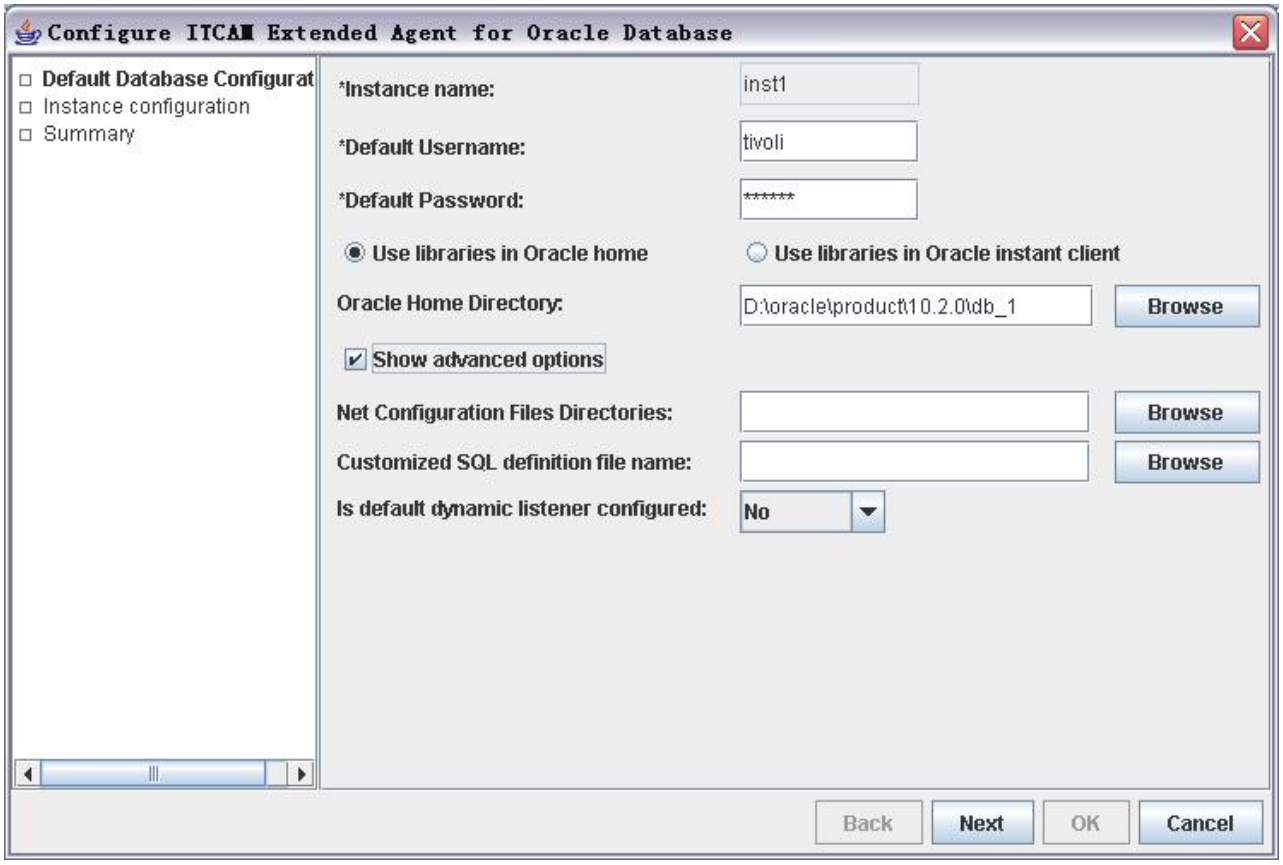

Figure 2. Default Configuration section of the Agent Configuration window

Table 2. Default Configuration attributes

Attribute name	Description
Default user name	The default database user ID for the connection. This user ID is the one that the agent uses to access the connected database instance. This user ID must have select privileges on the dynamic performance views and tables that are required by the agent, and other Oracle object privileges and system privileges that are required to run Take Action commands.
Default password	The password that is associated with the specified default database user ID.
Use libraries in Oracle home	Select this option if an Oracle database is installed. This attribute is the Oracle database installation directory on the system where the agent is installed. The Oracle Database Extended agent uses this file path to obtain the Oracle Call Interface (OCI) library files. In the **Oracle home directory** field, enter the directory name, or browse to the directory. **Important:** For a list of the supported Oracle Call Interface client library version for each platform, see Appendix B, "Supported Oracle Call Interface client library versions," on page 995.

Table 2. Default Configuration attributes (continued)

Attribute name	Description
Use libraries in Oracle instant client	Select this option if no Oracle database is installed. This attribute is the Oracle instant client installation directory that contains the OCI library files on the system where the agent is installed. The Oracle Database Extended agent uses this file path to obtain the OCI library files. The Oracle instant client that is on a network drive does not work. For example: • On a Windows system, if the full path of the `oci.dll` file is `C:\instantclient_10_2\oci.dll`, `C:\instantclient_10_2` must be used for this field as the Oracle instant client installation directory. • On a UNIX system, If the full path of the `libocci.so.10.1` file is `/home/tivoli/oci/libocci.so.10.1`, `/home/tivoli/oci` must be used as the Oracle instant client installation directory. In the **Oracle instant client installation directory** field, enter the directory name, or browse to the directory. **Important:** For a list of the supported Oracle Call Interface client library version on each platform, see Appendix B, "Supported Oracle Call Interface client library versions," on page 995. Also, see Oracle Database Instant Client (http://www.oracle.com/technetwork/database/features/instant-client/index.html) for instant client packages that you can download.
Net configuration files directories	This attribute is the directory that contains Oracle database net configuration file. The Oracle Database Extended agent uses this file path to obtain the `tnsnames.ora` file. This directory is defined by the **`TNS_ADMIN`** environment variable for each Oracle database instance. The default directory is *`ORACLE_HOME`*`/network/admin` on UNIX or Linux systems, and *`ORACLE_HOME`*`\NETWORK\ADMIN` on Windows systems. *ORACLE_HOME* is the installation directory for the Oracle database. If you have multiple net configuration file directories, separate the directories by using a semicolon (;) on Windows systems, or a colon (:) on UNIX and Linux systems. If you are monitoring Oracle databases remotely, you can copy net configuration files from the remote system to the system where the agent is installed, or merge the content of net configuration files on the remote system to the net configuration files on the system where the agent is installed.
Customized SQL definition file name	This attribute is the full file path name of the customized SQL definition file. The SQL statements defined in this file and related information are displayed in the CustomSQLs workspace. The default file path is *`CANDLEHOME`*`/config/krzcussql.properties` on UNIX or Linux systems, *`CANDLEHOME`*`\TMAITM6\krzcussql.properties` on Windows systems, and *`CANDLEHOME`*`\TMAITM6_x64\krzcussql.properties` on Windows x64 systems.
Is default dynamic listener configured	The default dynamic listener is (PROTOCOL=TCP)(HOST=localhost)(PORT=1521). If the default dynamic listener is configured at this workstation, select this option.

5. Click **Next**.
6. In the **Instance Configuration** section, create, delete, edit, or test database connections.

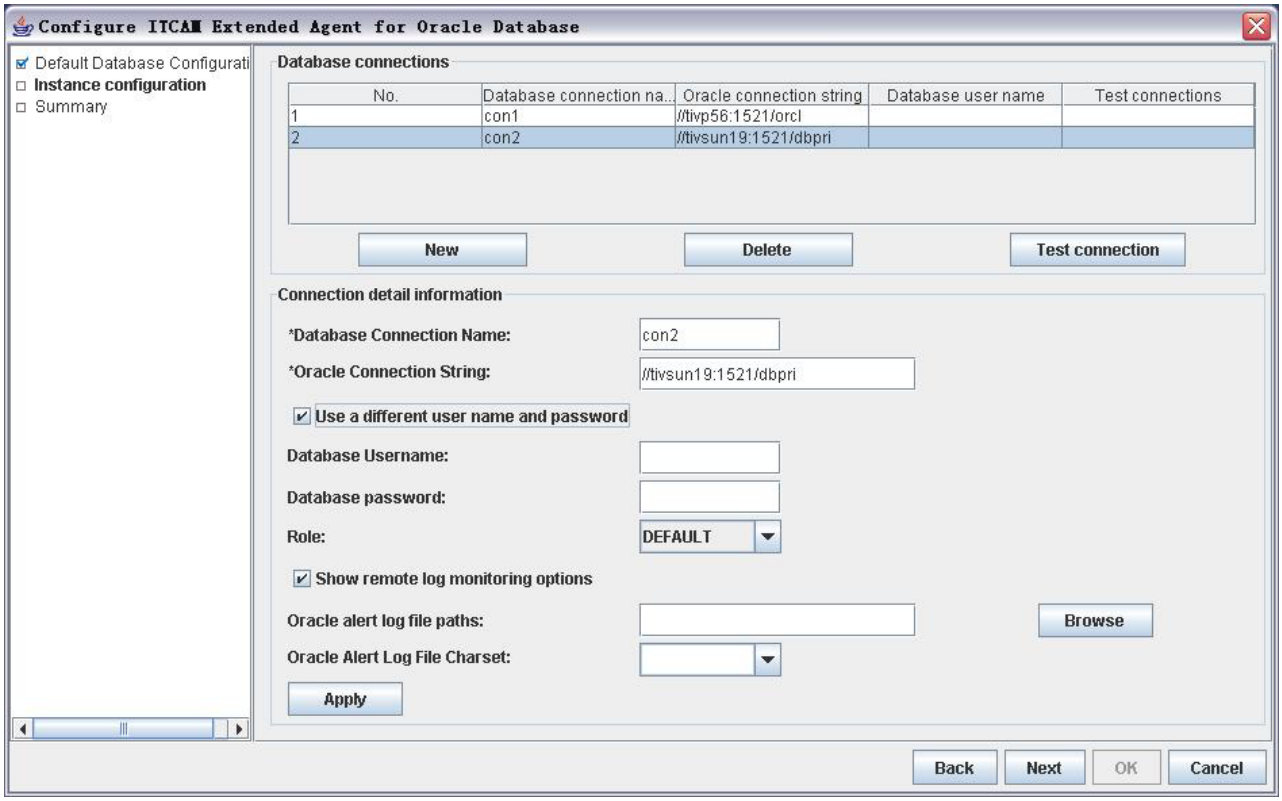

Figure 3. Instance Configuration section of the Agent Configuration window

- To create a database connection, click **New**, enter the database connection information, and click **Apply**. For descriptions of the fields, see Table 3 on page 21.
- To delete a database connection, select the database connection in the Database Connections list, and click **Delete**.
- To edit a database connection, select the database connection in the Database Connections list, modify the database connection information, and click **Apply**.
- To test a database connection, select the database connection in the Database Connections list, and click **Test connection**. The test result is displayed.

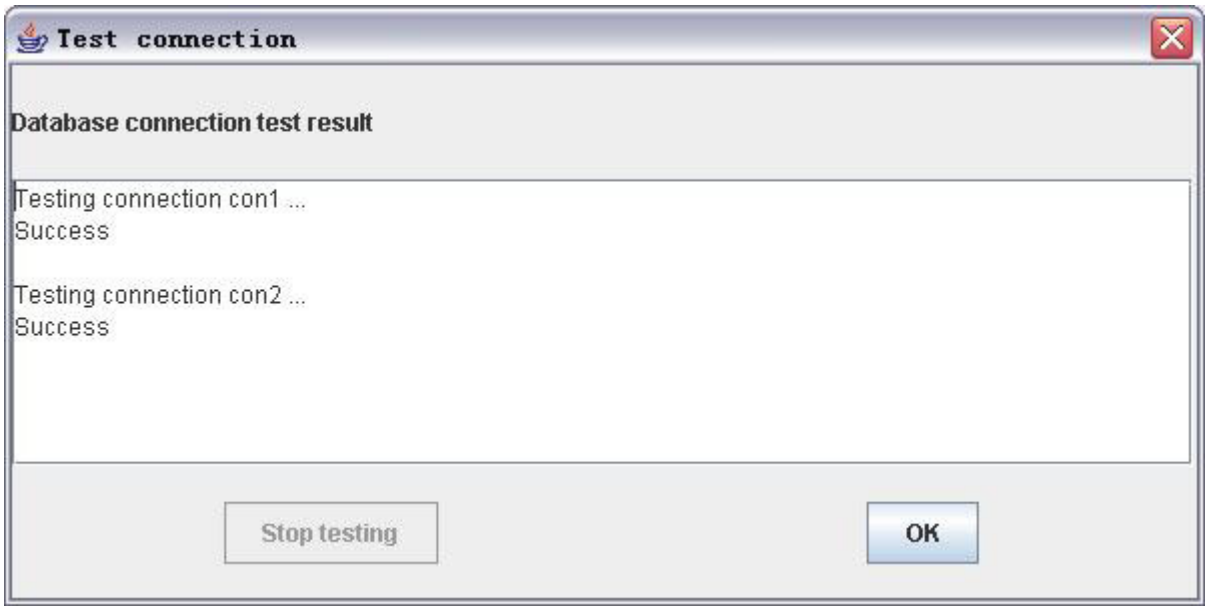

Figure 4. Connection test result

Table 3. Instance Configuration section

Attribute name	Description
Database Connection Name	An alias for the connection to the database. Only letters, Arabic numerals, the underline character, and the minus character can be used in the connection name. The maximum length of a connection name is 25 characters. **Important:** Follow the conventions in "Default naming conventions for database connection subnodes" on page 15 when you name the database connection.
Oracle connection string	This attribute supports all Oracle net naming methods as follows: • SQL Connect URL string of the form: //host:*port*/*service name*. For example, //dlsun242:1521/bjava21 • Oracle Net keyword-value pair. For example, (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp) (HOST=dlsun242) (PORT=1521)) (CONNECT_DATA=(SERVICE_NAME=bjava21))) • TNSNAMES entries, such as inst1, with the **TNS_ADMIN** or **ORACLE_HOME** environment variable set and configuration files configured
Use a different user name and password	Select this option, if you want to use a different user account for this connection. Otherwise, the user account that is specified in the Default Configuration section is used.
Database user name	The database user ID for the connection. For RDBMS instances, this user ID must have select privileges on the dynamic performance views and tables that are required by the agent, and other Oracle object privileges and system privileges that are required to run Take Action commands. For ASM instances, use an account with the SYSDBA or SYSASM role. For example, the sys account.
Database password	The password that is associated with the specified database user ID.

Table 3. Instance Configuration section (continued)

Attribute name	Description
Role	The set of privileges to be associated with the connection. For a user that was granted the SYSDBA system privilege, you can specify a connection that includes that privilege. For ASM instances, use the SYSDBA role for Oracle Database 10g, and the SYSDBA or SYSASM role for Oracle Database 11g.
Show remote log monitoring options	Select this option to monitor remote logs.
Oracle Alert Log File Paths	The absolute file paths of mapped alert log files for remote database instances in this database connection. The agent monitors alert logs by reading these files. If the Oracle Database Extended agent runs on a Windows system and reads the alert log files through the network, the remote file path must follow the Windows universal naming convention. For example, `\\tivx015\path\alert_orcl.log`. **Important:** Enter the path and alert log file name together. **Important:** A mapped network driver is not supported for the alert log path. If the Oracle Database Extended agent agent runs on a UNIX or Linux system, a locally mounted file system is required for remote alert logs. Multiple files are separated by a semicolon (;) on Windows systems, or a colon (:) on UNIX systems. Each file is matched to a database instance by using the `alert_`*`instance`*`.log` file name pattern, or ignored if unmatched. Local database instance alert log files can be discovered automatically.
Oracle Alert Log File Charset	The code page of the mapped alert log files. If this field is left blank, the system current locale is used. For examples: • ISO8859_1, ISO 8859-1 Western European encoding • UTF-8, UTF-8 encoding of Unicode • GB18030, Simplified Chinese GB18030 encoding • CP950, Traditional Chinese encoding • EUC_JP, Japanese encoding • EUC_KR, Korean encoding For the full list of all the supported code pages, see Appendix D, "ICU supported code pages," on page 1003

7. Click **Next**. The configuration summary is displayed.

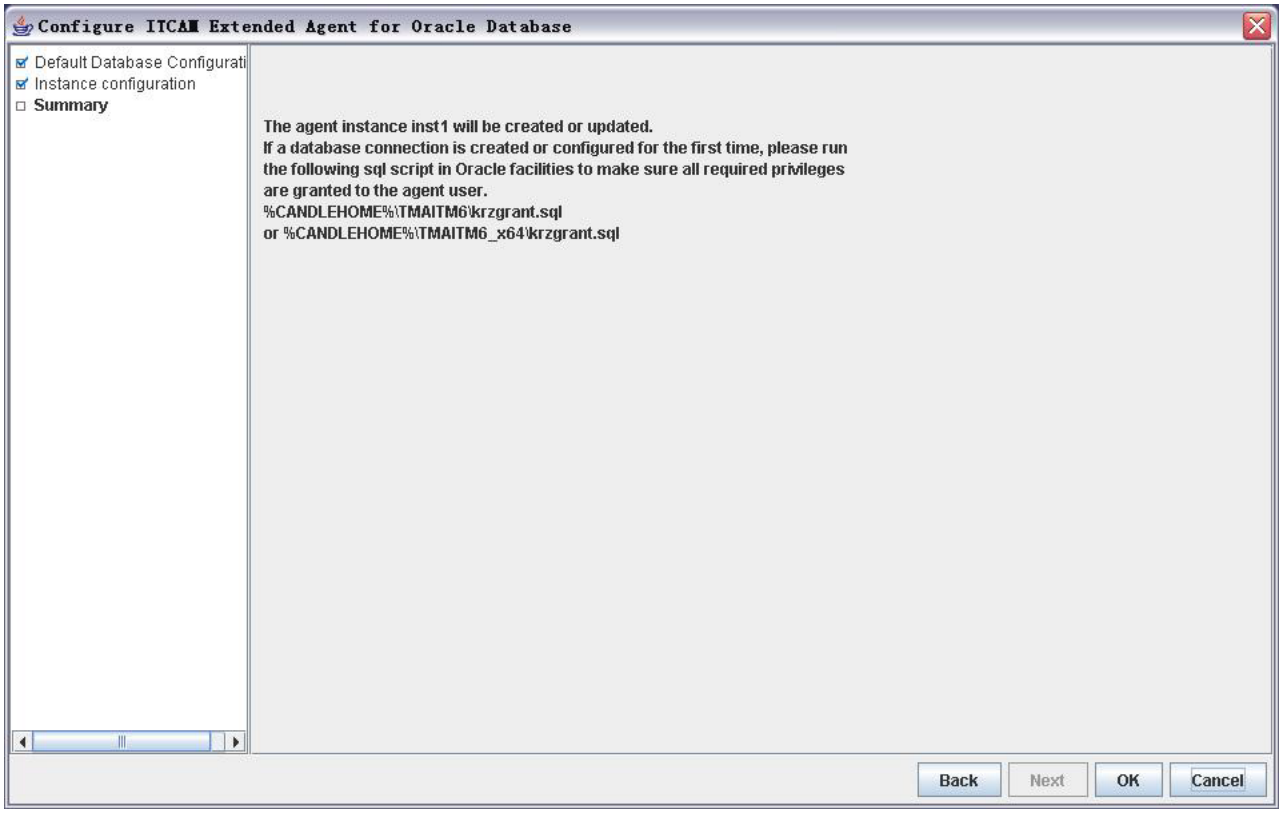

Figure 5. Summary section of the Agent Configuration window

8. Click **OK** to complete the configuration.

Configuring the agent through the Manage Tivoli Monitoring Services tool on UNIX and Linux systems

On UNIX and Linux systems, you can configure the Oracle Database Extended agent through the Manage Tivoli Monitoring Services tool.

Procedure

1. To open the Manage Tivoli Enterprise Monitoring Services window, go to the *ITMinstall_dir*/bin directory and run the following command: `./itmcmd manage [-h ITMinstall_dir]` Where: *ITMinstall_dir* is the installation directory of IBMTivoli Monitoring.
2. Click **Monitoring Agent for Oracle Database Extended**, and right-click it.
3. Click **Configure**.
4. In the Manage Application Instances window, click **Add Instances**.
5. Enter a unique instance name, and click **OK**. Only letters, Arabic numerals, the underline character, and the minus character can be used in the instance name.

   Important: Do not create an instance name with a long length. For the length limitation of instance names, follow the conventions in "Default naming conventions for agent instance nodes" on page 14 when you name the agent instance.
6. In the **Default Database Configuration** section of the Agent configuration window, complete the fields as required for your site. You can select **Show Advanced Options** to show advanced options. For descriptions of the fields, see Table 2 on page 18.
7. Click **Next**.
8. In the **Instance Configuration** section, create, delete, or test database connections.

- To create a database connection, click **New**, enter the database connection information, and click **Apply**. For descriptions of the fields, see Table 3 on page 21.
- To delete a database connection, select the database connection in the Database Connections list, and click **Delete**.
- To edit a database connection, select the database connection in the Database Connections list, modify the database connection information, and click **Apply**.
- To test a database connection, select the database connection in the Database Connections list, and click **Test connection**.

9. Click **Next**.
10. Click **OK** to complete the configuration.

Configuring the agent through the command line on UNIX and Linux systems

You can configure the Oracle Database Extended agent on a UNIX or Linux system through the command line.

About this task

Important: If you are reconfiguring a configured agent instance, the value that is set in the last configuration is displayed for each setting. If you want to clear an existing value, press the Space key when the setting is displayed.

Procedure

Complete the following steps to configure the agent:

1. Go to the *ITMinstall_dir*/bin directory, where *ITMinstall_dir* is the installation directory for IBM Tivoli Monitoring.
2. *(Optional)* To check the names and settings of configured agent instances, run the following command: **./cinfo -s rz**
3. To configure the Oracle Database Extended agent, run the following command:**./itmcmd config –A rz**
4. Type a name for the agent instance if you want to configure a new agent instance, or type the name of a configured agent instance that you want to reconfigure, and press Enter. Only letters, Arabic numerals, the underline character, and the minus character can be used in the instance name.

   Important: Do not use an instance name of a long length. For the length limitation of instance name, follow the conventions in "Naming conventions for agent instances and database connections" on page 14.
5. Press Enter when you are asked whether you want to edit the Monitoring Agent for Oracle Database settings. The default value is Yes.
6. Press Enter when you are asked whether you want to edit the Default Database Configuration settings. The default value is Yes.
7. Enter the default database configuration information by doing the following steps. See Table 2 on page 18 for descriptions of the attributes.
   a. Type the default user name, and press Enter.
   b. Type the default password, and press Enter.
   c. Confirm the password.
   d. If you have the Oracle database installed, type the Oracle home directory, and press Enter. If you want to clear the old value for the Oracle home directory, press the space bar, and then press Enter.

      If you do not press Enter, skip to Step 7e.
   e. Type the Oracle instant client installation directory, and press Enter. If you entered the Oracle home directory, this value is ignored.

f. Type the file path of the directory that contains the Oracle database net configuration file, and press Enter.
g. Choose whether the default dynamic listener is configured at this workstation, and press Enter.
h. Type the full file path of the customized SQL definition file, and press Enter.

8. Press Enter when you are asked whether you want to edit the Database Connection settings. The default value is Yes.
9. To add a database connection, type 1, and press Enter.
10. Enter database connection information by doing the following steps. See Table 2 on page 18 for descriptions of the attributes.
    a. Type the connection name, and press Enter.

       Important: Follow the conventions in"Naming conventions for agent instances and database connections" on page 14 when naming the database connection.
    b. Type the Oracle connection string, and press Enter.
    c. Type the user name, and press Enter.
    d. Confirm the password.
    e. Type the Data Guard group name, and press Enter.
    f. Type the role name, and press Enter.
    g. Type the Alert Log paths, and press Enter.
    h. Type the Alert Log file charset, and press Enter.
11. *(Optional)* You can type 1 and press Enter, adding multiple database connections to monitor multiple database instances. You also have the following choices:
    - `2 Edit`, to edit a database connection
    - `3 Del`, to delete a database connection
    - `4 Next`, to change to next database connection
    - `5 Exit`, to exit the database connection section
12. Type `5`, and press Enter.
13. When you are asked whether the agent connects to a Tivoli Enterprise Monitoring Server, press Enter.
14. Configure the connection between the agent and the Tivoli Enterprise Monitoring Server:
    a. Type the host name of the Tivoli Enterprise Monitoring Server, and press Enter.
    b. Type the network protocol that the Tivoli Enterprise Monitoring Server uses to communicate with the agent. You have four choices: IP.UDP, SNA, IP.PIPE, or IP.SPIPE.
    c. When prompted, provide the required information, depending on the type of protocol you specified.
    d. When you are asked whether you want to configure the connection to a secondary Tivoli Enterprise Monitoring Server, press Enter. The default value is No.
    e. To accept the default value for the optional primary network name, press Enter. The default value is none.

Configuring the agent silently on UNIX and Linux systems

The Oracle Database Extended agent supports silent configuration on UNIX and Linux systems.

Procedure

Complete the following steps to perform a silent configuration:

1. Create a response file on the workstation where the Oracle Database Extended agent is installed. The response file is a .txt file that contains the configuration options for the agent. The following example is a response file:

```
################## PRIMARY TEMS CONFIGURATION #################
CMSCONNECT=YES
HOSTNAME=host
NETWORKPROTOCOL=Protocol
IPPIPEPORTNUMBER=1918
################## Database connection config #################
INSTANCE=InstanceName
KRZ_CONN_USERID=UserID
KRZ_CONN_PASSWORD=Password
KRZ_ORACLE_HOME=home_path
KRZ_INSTANT_CLIENT_LIBPATH=LibPath
KRZ_TNS_PATHS=Net_Config_File_DIR
KRZ_DYNAMIC_LISTENER=FALSE
KRZ_CUSTOMIZED_SQL=SQL_File
KRZ_CONN_STR.connection1=//host:port/service
KRZ_CONN_USERID.connection1=UserID
KRZ_CONN_PASSWORD.connection1=Password
KRZ_CONN_MODE.connection1=Role
KRZ_LOG_PATHS.connection1=AlertLogPath
KRZ_LOG_CHARSET.connection1=CharSet
```

Where:

CMSCONNECT
This option specifies whether the agent is connected to a Tivoli Enterprise Monitoring Server.

InstanceName
Name of the agent instance. If you are configuring a new instance, use the following guidelines for the instance name:

- Only letters, Arabic numerals, the underline character, and the minus character can be used in the instance name.
- Do not use an instance name with a long length. For the length limitation of an instance name, follow the conventions in "Naming conventions for agent instances and database connections" on page 14

connection1
Name of the database connection. You can define multiple database connections for an agent instance.

2. Run the following configuration command:`./itmcmd config -A -o InstanceName -p Response_File_Path rz` Where:

InstanceName
Name of the agent instance that you want to configure. This instance name must be the same as the instance name in the response file.

Response_File_Path
Full file path of the response file.

Remember: You must specify the name of the instance that you want to configure in both the response file and the configuration command.

Remote installation and configuration

With IBM Tivoli Monitoring you can deploy monitoring agents from a central location, which is the monitoring server. You can also use the remote agent deployment function to configure deployed agents and install maintenance on your agents.

For information about remote deployment and configuration, see the *IBM Tivoli Monitoring Installation and Setup Guide*. See the *IBM Tivoli Monitoring Command Reference* for commands that you can use to perform these tasks. Before you can deploy any agents from a monitoring server, you must first populate the agent depot with bundles. For information about populating your agent depot, see the*IBM Tivoli Monitoring Installation and Setup Guide*.

Deploying and configuring through the portal

After you add the agent bundle to the Tivoli Enterprise Monitoring Server, if the Tivoli Composite Application Manager Extended Agent for Oracle Database is not listed in the Select a Monitoring Agent window, deploy the agent through the command line.

See the *IBM Tivoli Monitoring Installation and Setup Guide* for detailed information about deploying non-OS agents.

In the New Managed System Configuration window, enter configuration information for the monitoring agent. See Table 2 on page 18 and Table 3 on page 21 for descriptions of the required fields.

Important: The test connection function is unavailable for remote deployment.

When you configure each agent instance remotely through the portal, apply the following guidelines:

- Only letters, Arabic numerals, the underline character, and the minus character can be used in the instance name.
- Do not use an instance name or a database connection name with a long length. For the length limitation of instance names and database connection names, follow the conventions in "Naming conventions for agent instances and database connections" on page 14 when naming an agent instance or a database connection.
- If the number of database connections is less than or equal to 10, the total number of user input characters must not exceed 1000. The user input includes agent instance name, user ID, password, Oracle instance client path, Oracle home directory path, Oracle database connection name, Oracle database connection string, and Oracle Alert Log path.
- If the number of database connections is less than 20 and more than 10, or is equal to 20, the total number of user input characters must not exceed 750.
- If the number of database connections is more than 20, the total number of user input characters must not exceed 500.

Deploying and configuring through the command line

You can use the **configureSystem** or **addSystem** commands to deploy and configure the agent through the command line.

See the *IBM Tivoli Monitoring Installation and Setup Guide* for detailed information about deploying non-OS agents.

For information about displaying the configuration options that are available to use with the **configureSystem** or **addSystem** commands, see the **tacmd describeSystemType** command in the *IBM Tivoli Monitoring Command Reference*.

See Table 2 on page 18 and Table 3 on page 21 for agent-specific configuration information.

addSystem: The tacmd addSystem command deploys an agent that is not already installed on the node.

Important: When you deploy an agent using the `tacmd addSystem -t pc -n node -p properties` command, the length of the *properties* string must not exceed the maximum length of 2500 characters.

Example

The following command is an example of remote deployment for the Oracle Database Extended agent:

```
tacmd addsystem -t RZ -n Primary:sample.node.name:NT
-p INSTANCE=InstanceName
default.KRZ_CONN_USERID=UserID
default.KRZ_CONN_PASSWORD=Password
default.KRZ_INSTANT_CLIENT_LIBPATH=libpath
```

```
default.KRZ_ORACLE_HOME=home_path
advance.KRZ_TNS_PATHS=Net_Config_File_DIR
advance.KRZ_DYNAMIC_LISTENER=FALSE
advance.KRZ_CUSTOMIZED_SQL=SQL_File_Path
config:db_connection1.KRZ_CONN_STR=host:port/service
config:db_connection1.KRZ_CONN_USERID=UserID
config:db_connection1.KRZ_CONN_PASSWORD=Password
config:db_connection1.KRZ_CONN_MODE=mode
config:db_connection1.KRZ_LOG_PATHS=logpath
config:db_connection1.KRZ_LOG_CHARSET=charset
config:db_connection2.KRZ_CONN_STR=tnsname
config:db_connection2.KRZ_CONN_MODE=mode
config:db_connection2.KRZ_LOG_PATHS=logpath
config:db_connection2.KRZ_LOG_CHARSET=charset
_WIN32_STARTUP_.Username=UserName
_WIN32_STARTUP_.Password=Password
_WIN32_STARTUP_.LocalSystem=Localsystem
_WIN32_STARTUP_.InteractWithDesktop=Interact
```

Important: On UNIX and Linux systems, if brackets are in a configuration value, embrace the value with double quotation marks such as in the following example:

```
 config:db_connection.KRZ_CONN_STR="(DESCRIPTION=(ADDRESS_LIST=
(ADDRESS=(PROTOCOL=TCP)(HOST=1.2.3.4)(PORT=1521)))
(CONNECT_DATA=(SERVICE_NAME=oracle)))"
```

The following options are required for all remote deployments:

- -n *Primary:sample.node.name:NT*
- -p INSTANCE=*InstanceName*

  The following guidelines apply when you name the agent instance:

  – Only letters, Arabic numerals, the underline character, and the minus character can be used in the instance name.

  – Do not use an instance name with a long length. For the length limitation of an instance name, follow the conventions in "Naming conventions for agent instances and database connections" on page 14 when naming the agent instance.
- default.KRZ_CONN_USERID=*UserID*
- default.KRZ_CONN_PASSWORD=*Password*
- One of the following two options:

  – default.KRZ_INSTANT_CLIENT_LIBPATH=*libpath*

  – default.KRZ_ORACLE_HOME=*home_path*

When you deploy the Oracle Database Extended agent from a UNIX or Linux workstation to a Windows workstation, use double backslashes (\\) instead of backslashes(\) in file paths. For example, use `c:\\oracle\\example` instead of `c:\oralce\example`.

The config:*db_connection1*.KRZ_CONN_STR=*name* option is required for the db_connection1 instance section.

The config:*db_connection2*.KRZ_CONN_STR=*name* option is required for the db_connection2 instance section.

Important: Follow the conventions in "Naming conventions for agent instances and database connections" on page 14 when naming the agent instance.

The parameters in the example are shown on separate lines for clarity. When typing the command, type all parameters on one line.

configureSystem: Use the **tacmd configureSystem** command to edit configuration options for an existing agent. After the command is issued, the agent restarts automatically for the new configuration parameters to take effect.

The following command is an example of remote configuration for the Oracle Database Extended agent:

```
tacmd configuresystem -m System
-p INSTANCE=InstanceName
default.KRZ_CONN_USERID=UserID
```

The following options are required for all remote configuration:

- -m *System*
- -p INSTANCE=*InstanceName*

Important:

- On UNIX and Linux systems, if there are brackets in a configuration value, embrace the value with double quotation marks. For example,

  ```
  config:db_connection.KRZ_CONN_STR="(DESCRIPTION=(ADDRESS_LIST=
  (ADDRESS=(PROTOCOL=TCP)(HOST=1.2.3.4)(PORT=1521)))
  (CONNECT_DATA=(SERVICE_NAME=oracle)))"
  ```

- When you deploy the Oracle Database Extended agent from a UNIX or Linux workstation to a Windows workstation, use double backslashes (\\) instead of backslashes (\) in file paths. For example, use `c:\\oracle\\example` instead of `c:\oralce\example`.

The parameters in the example are shown on separate lines for clarity. When typing the command, type all parameters on one line.

Setting environment variables

You can set environment variables for the agent by using a configuration file (on Windows, UNIX, and Linux systems) or using the Manage Tivoli Enterprise Monitoring Services tool (on Windows systems).

Use one of the following procedures to set the environment variables for the Oracle Database Extended agent:

- On Windows, UNIX and Linux systems, use can use the configuration file.
- On Windows systems, you can use the Manage Tivoli Enterprise Monitoring Services tool.

Table 4 contains descriptions of the environment variables that you use in both procedures.

Table 4. Environment variable descriptions

Variable	Description
CDP_COLLECTION_TIMEOUT	The maximum time of data collection. If the execution time exceeded, the agent stops the execution, and reports timeout. The default value is 60 (in seconds). The minimum value is 5 (in seconds).
CDP_DP_ACTION_TIMEOUT	The maximum execution time of Take Action commands. If the execution time exceeded, the agent stops the execution. The default value is 20 (in seconds). The minimum value is 5 (in seconds).
KRZ_ACTION_NEWCONN	If the value is true, the agent creates a database connection to run Take Action commands.

Table 4. Environment variable descriptions (continued)

Variable	Description
KRZ_CHECK_ORACLE_PRIVILEGE	Controls whether the agent instance checks all default Oracle privileges in the `krzgrant.sql` file when the agent instance starts. The default value is TRUE. If set to FALSE, the agent instance does not check the privileges when the agent starts. **Note:** The test connection step of GUI configuration checks all Oracle privileges defined in the `krzgrant.sql` file. If you confirm that the Oracle user has the correct privileges, ignore that checking privileges fails in the test connection step.
KRZ_CHECK_PRIVILEGE_EVENT_COUNT	The number of Check Privilege events that are displayed in the Database Connection workspace. The other Check Privilege events are ignored. The value must not be less than 1.
KRZ_CUSTOM_SQLXML	The name of the XML file for customized SQL statements.
KRZ_DEFAULT_MAXROWNUM	The default maximum row number of all attribute groups. The default value is 1000.
KRZ_LISTENER_PING_INTERVAL	The interval by which the agent checks whether the listener is active. Listener monitoring is started by default. You can control the interval or turn off listener monitoring. The default value is 300 (in seconds). If the value is less than 1, the agent stops checking the interval.

KRZ_LOAD_ORACLE_NET	Use this environment varialbe to decide if the Listener and Net Service End Points come from the following files you want to monitor:
	• On UNIX or Linux systems
	`$ORACLE_HOME/network/admin/listener.ora`
	`$ORACLE_HOME/network/admin/tnsnames.ora`
	`$TNS_ADMIN/network/admin/listener.ora`
	`$TNS_ADMIN/network/admin/tnsnames.ora`
	• On Windows systems
	`%ORACLE_HOME%\network\admin\listener.ora`
	`%ORACLE_HOME%\network\admin\tnsnames.ora`
	`%TNS_ADMIN%\network\admin\listener.ora`
	`%TNS_ADMIN%\network\admin\tnsnames.ora`
	
	If this new variable is set with a value of `false`, the agent does not load the Listener or Net Service definition from the files in the list, even if the agent is configured with the ORACLE HOME directory.
	
	The agent loads the Listener or Net Service definition if the agent is configured with a `TNS PATH` directory that contains the `listener.ora` or `tnsnames.ora` files.

KRZ_LOG_INTERVAL	This attribute defines the search interval (in seconds) for alert log files. The default value is 300 (seconds). Setting the value to 0 disables search. The valid range is from 60 to 3600.

Table 4. Environment variable descriptions (continued)

Variable	Description
KRZ_LOG_NOREPEAT	If the value is true, the Oracle Database Extended agent does not resend alert log message entries that were found in the last running of the Oracle Database Extended agent. The default value is FALSE. The valid values are TRUE and FALSE.
KRZ_LOG_MAXREAD	Only the latest part of alert logs is scanned by the Oracle Database Extended agent while the agent starts. The size of the scanned part is specified by the KRZ_LOG_MAXREAD attribute. The default value is 5M. The value must be positive. The valid data suffixes are M/m presenting megabyte, and K/k presenting kilobyte.
KRZ_MAX_SUBNODE_ID_LENGTH	The maximum length of the subnode ID. The default value is 24. **Note:** In 6.3.1-TIV-ITM_KRZ-IF0001 and 6.3.1-TIV-ITM_KRZ-IF0002, the environment variable is named KRZ_MAX_SUBNODE_NAME_LENGTH. In this release, this environment variable is renamed as KRZ_MAX_SUBNODE_ID_LENGTH. To be compatible with old releases, KRZ_MAX_SUBNODE_NAME_LENGTH continues to work.
KRZ_PING_INTERVAL	The agent check by interval, which is used to determine the database connection availability. The default value is 60 (in seconds).
KRZ_SELECT_ACTION_MAXROW	The maximum number of rows that are returned by the SELECT Take Action command. The default value is 10.
KRZ_SUBNODE_INCLUDING_AGENTNAME	Controls whether the agent instance name is added to the subnode name. The default value is YES. If set to NO, the ID does not include the instance name.
KRZ_SUBNODE_INCLUDING_HOSTNAME	Controls whether the host name is added to the subnode name. The default value is YES. If set to NO, the ID does not include the host name.
KRZ_TNS_PING_INTERVAL	The interval by which the agent checks whether the Oracle net services are active. Net service monitoring is started by default. You can control the interval or turn off net service monitoring. The default value is 300 (in seconds). If the value is less than 1, the agent stops checking the interval.

Using the configuration file

Use the configuration file on Windows, UNIX or Linux systems to set environment variables.

Procedure

1. Open the configuration file.

   On Windows systems, the file path of the configuration file is *install_dir*\TMAITM6\KRZENV_*InstanceName*.

   On UNIX and Linux systems, the file path of the configuration file is *install_dir*/config/rz.ini.

   Where:

install_dir
Installation directory of the Oracle Database Extended agent

InstanceName
Name of the agent instance.

2. Set the environment variables. See Table 4 on page 29 for a description of the variables.
3. Restart the agent instance for the changes to take effect.

Using the Manage Tivoli Enterprise Monitoring Services tool

On Windows systems, you can use the Manage Tivoli Enterprise Monitoring Services tool to set environment variables:

Procedure

1. To open the Manage Tivoli Enterprise Monitoring Services window, click **Start** > **Programs** > **IBM Tivoli Monitoring** > **Manage Tivoli Monitoring Services**.
2. Right-click the agent instance that you want to configure, and click **Advanced** > **Edit Variables**.
3. In the Override Local Variable Settings window, complete one of the following two steps:
   a. Select the variable that you want to edit, and click **Edit**.
   b. If the variable does not exist, click **Add**, and enter the name and the value that you want to set.

   For descriptions of the variables, see Table 4 on page 29.
4. Click **OK** to close the Add Environment Setting Override window.
5. Click **OK**.
6. Restart the agent instance for the changes to take effect.

Customizing Oracle alert log monitoring

The alert log workspaces are used to monitor the Oracle messages from the Oracle alert log. You can customize the monitoring setting to monitor the messages that you want, and set the severity level for each message.

Procedure

To customize the monitoring settings for Oracle alert log, complete the following steps:

1. Open the *Host_name*_rz_*Instance_name*_msgid.properties properties file for Oracle alert log monitoring. On Windows 32-bit systems, the file is in the *install_dir*\TMAITM6 directory. On Windows x64 systems, the file is in the *install_dir*\TMAITM6_x64 directory. On UNIX and Linux systems, the file is in the *install_dir*\config directory. Where:

   install_dir
   Installation directory of the Oracle Database Extended agent.

   Host_name
   Host name of the system where the agent is running.

   Instance_name
   Name of the Oracle Database Extended agent.
2. Edit the file as required. The file contains regular expressions that are used to match the message IDs. You can add a new regular expression, comment an existing regular expression, or change the severity level for a regular expression. Each line must be written in the following format: *RegularExpression=ServerityLevel*. For example, ORA-0*44[0-9]=1.

   You have the following four choices for the severity level:

   - 1, error
   - 2, warning
   - 3, information

- 4, miscellaneous
- 5, ignore

For the detailed syntax for regular expressions, see Appendix C, “ICU regular expressions,” on page 999.

3. Save your changes and close the file.

Defining and running customized SQL statements

The customized SQL feature provides the capability to define and run your own SQL-based monitoring with the Oracle Database Extended agent.

The customized SQL feature supports only SELECT statements that you can run in an on-demand mode or at an interval.

Defining SQL statements

Define the SQL statements in the `krzcussql.properties` file that is located in the following directory:

- Windows 32-bit systems: *`Installation_Dir`*`\TMAITM6`
- Windows x64 systems: *`Installation_Dir`*`\TMAITM6_x64`
- UNIX and Linux systems: *`Installation_Dir`*`/config`

where: *Installation_Dir* is the installation directory of the Oracle Database Extended agent.

Apply the following guidelines when you define SQL statements:

- Only ASCII characters are supported in the `krzcussql.properties` file.
- Each valid entry starts with `[SELECTSQL]`, and the entry ends when reaching another beginning-bracket character ([) at the beginning of a line.
- In each SELECTSQL entry, you can define the SQL_ID, SQL_TEXT, and SQL_TIMEOUT variables as follows.
  - SQL_ID: Each customized SQL entry must have a valid SQL_ID variable defined.

    The SQL_ID variable is case sensitive, and can consist of uppercase letters (A-Z), lowercase letters (a-z), the underscore character (_), and the hyphen (-).

    If multiple SELECTSQL entries exist with the same SQL_ID, only the last entry takes effect.
  - SQL_TEXT: Each customized SQL entry must have an SQL_TEXT variable.

    For the SQL_TEXT variable, only SELECT statements are supported. INSERT, UPDATE, or DELETE statements are not supported.

    The SQL_TEXT variable supports multiple lines and valid Oracle double dash comment characters (--).
  - SQL_TIMEOUT: You can specify different timeout values for each customized SQL entry in case some SQL statements need more time for execution and fetching data. The default value is 60 seconds.

Running the SQL statements

SQL statements can be executed in an on-demand mode or in an interval mode.

On-demand mode

SQL statements are executed in an on-demand mode by clicking the corresponding SQL record and linking to the SQL Result (Figure 6 on page 34).

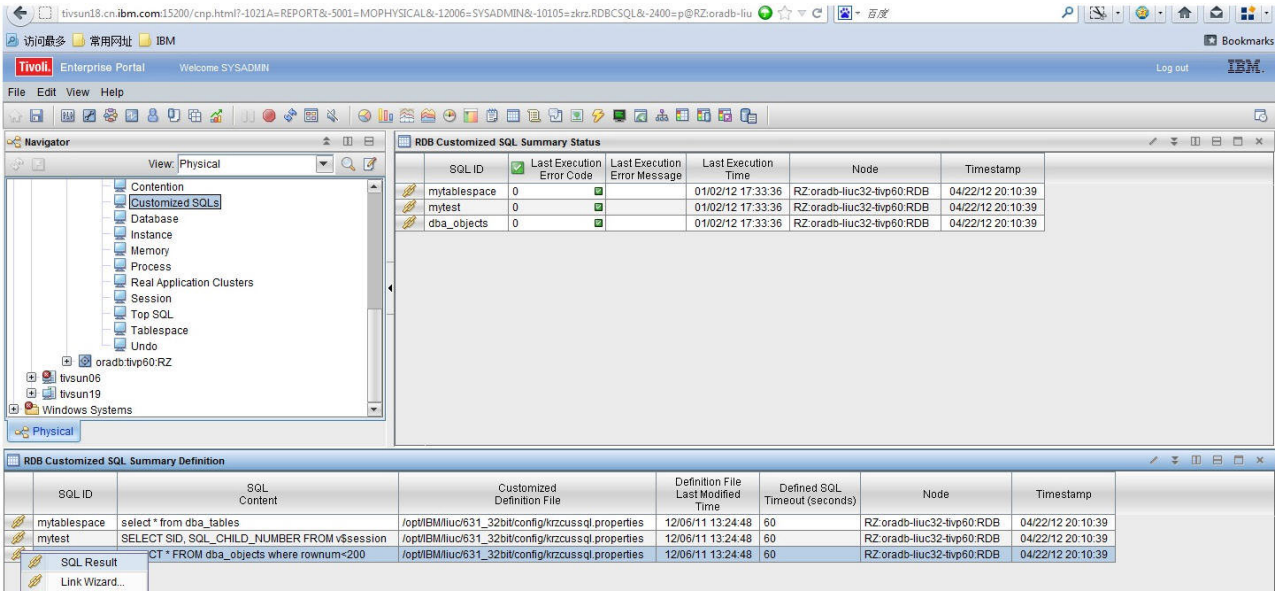

Figure 6. SQL result

Interval mode

SQL statements can be executed in an interval mode by creating a situation. To execute the SQL statements at a regular interval, create a situation for the KRZ RDB CUSTOMIZED SQL DETAIL attribute group.

Example:

```
(SQL ID == 'DualTest')
OR SQL ID == 'EMPTEST'
OR SQL ID == 'JOBTEST'
```

Select the interval you want to use for the situation. The SQL ID matches the SQL ID variable that is defined in the `krzcussql.properties` file. After starting the situation, the SQL statements run by situation interval.

Starting or stopping the agent

After you install and configure the Oracle Database Extended agent, you must start the agent. You can use local or remote interfaces.

Important:

- The user who configures, starts, or stops the agent must have write and execute permissions to the agent installation directory.
- Use the same user ID to configure, start, or stop the Oracle Database Extended agent.
- If the locally installed Oracle database is used by the agent to connect monitored databases, the user who starts the agent must have read and execute permissions to the local Oracle database directory.
- If the Oracle Call Interface (OCI) libraries in the Oracle instant client are used to connect monitored databases by the agent, the user who starts the agent must have read and execute permissions to those Oracle Call Interface (OCI) libraries.

After installing and configuring the Oracle Database Extended agent, start the agent by using the command relevant to the operating system and location where the agent is running. Table 5 on page 35 shows which interfaces you can use with Windows, UNIX, and Linux systems locally and remotely.

Important: Do not use the **kill -9** command to stop the Oracle Database Extended agent process. Do not use the **kill** command as a normal method to stop the monitoring agent.

Table 5. Interfaces for starting and stopping the Oracle Database Extended agent

Operating system	Local	Remote
Windows	• Manage Tivoli Enterprise Monitoring Services • tacmd startAgent • tacmd stopAgent • tacmd restartAgent	• Tivoli Enterprise Portal • tacmd startAgent • tacmd stopAgent • tacmd restartAgent
UNIX and Linux	• Manage Tivoli Enterprise Monitoring Services • itmcmd agent • CandleAgent	• Tivoli Enterprise Portal • itmcmd agent • CandleAgent

Manage Tivoli Enterprise Monitoring Services

To use Manage Tivoli Enterprise Monitoring Services to start the Oracle Database Extended agent, start the Manage Tivoli Enterprise Monitoring Services utility.

About using the Tivoli Enterprise Portal

For information about using the Tivoli Enterprise Portal to start or stop the monitoring agent, see "Working with monitoring agents" and "Starting and stopping a monitoring agent" in the *IBM Tivoli Monitoring Administrator's Guide*.

tacmd command line

In the following examples, the **tacmd** command is used to start, stop, or restart all Oracle Database Extended agent instances on a Windows system:

- **tacmd startAgent -t rz**
- **tacmd stopAgent -t rz**
- **tacmd restartAgent -t rz**

For information about using the **tacmd** commands, see the *IBM Tivoli Monitoring Command Reference*.

itmcmd command line

Use the following commands to start or stop an Oracle Database Extended agent instance on a UNIX or Linux system:

- `./itmcmd agent –o instance_name start rz`
- `./itmcmd agent –o instance_name stop rz`

where: **-o** specifies the Oracle Database Extended agent instance that you previously configured to start or stop.

To check the names and settings of configured agent instances, navigate to the *ITMinstall_dir*/bin directory, and run the following command:

```
./cinfo -s rz
```

CandleAgent command line

Use the following commands to start or stop an Oracle Database Extended agent instance on a UNIX or Linux system:

- `./CandleAgent –o instance_name start rz`
- `./CandleAgent –o instance_name stop rz`

where: **-o** specifies the Oracle Database Extended agent instance that you previously configured to start or stop.

To check the names and settings of configured agent instances, navigate to the *ITMinstall_dir*/bin directory, and run the following command:

```
./cinfo -s rz
```

Chapter 3. Workspaces reference

A workspace is the working area of the Tivoli Enterprise Portal application window. The Navigator tree contains a list of the workspaces provided by the agent.

About workspaces

Use the Navigator tree to select the workspace you want to see. As part of the application window, the status bar shows the Tivoli Enterprise Portal Server name and port number to which the displayed information applies and the ID of the current user.

When you select an item in the Navigator tree, a default workspace is displayed. When you right-click a Navigator item, a menu that includes a Workspace item is displayed. The Workspace item contains a list of workspaces for that Navigator item. Each workspace has at least one view. Some views have links to other workspaces. You can also use the Workspace Gallery tool as described in the *Tivoli Enterprise Portal User's Guide* to open workspaces.

The workspaces in the Navigator are displayed in a Physical view that shows your enterprise as a physical mapping or a dynamically populated logical view that is agent-specific. You can also create a Logical view. The Physical view is the default view.

This monitoring agent provides predefined workspaces. You cannot modify or delete the predefined workspaces, but you can create new workspaces by editing them and saving the changes with a different name.

The IBM Tivoli Composite Application Manager Extended Agent for Oracle Database provides various default workspaces. These workspaces are displayed in the Navigator tree under the following nodes and subnodes for this monitoring agent:

Oracle Database Extended (RZ node)
Corresponds to an Oracle Database Extended agent instance and contains agent instance-level workspaces.

Database (RDB subnode)
Each node is an individual single-instance Oracle database, Oracle Real Application Clusters (RAC) database, or Oracle Data Guard Primary database.

ASM (ASM subnode)
Each node is an individual ASM database.

Data Guard (DG subnode)
Each node is an individual Oracle Data Guard Standby database.

When multiple instances of the monitoring agent are defined on a system, the top-level node becomes Oracle Database Extended. The Oracle Database Extended workspace is undefined at this node. A subnode for each instance is created called *Instance*:*Hostname*:RZ. A workspace that is called *Instance*:*Hostname* :RZ is associated with the instance node. This workspace is comparable to the Oracle Database Extended workspace.

Workspace views can be any combination of query-based views, event views, and special purpose views.

Additional information about workspaces

For more information about creating, customizing, and working with workspaces, see "Using workspaces" in the *Tivoli Enterprise Portal User's Guide*.

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For a list of the predefined workspaces for this monitoring agent and a description of each workspace, see Predefined workspaces and the information about each individual workspace.

Some attribute groups for this monitoring agent might not be represented in the predefined workspaces or views for this agent. For a full list of the attribute groups, see "Attribute groups for the monitoring agent" on page 63.

Predefined workspaces

The Oracle Database Extended agent provides predefined workspaces, which are organized by Navigator item.

Agent-level navigator items

- Oracle Database Extended Navigator item
  - Database Connection (630) workspace
  - Database Connection (default) workspace
- Net Service Connection Navigator item
  - Net Service Connection (default) workspace
- TakeAction Result Navigator item
  - TakeAction Status (default) workspace

Database (RDB) subnode

- Database Navigator item
  - Oracle RDBMS Database Home (default) workspace
- Alert Log Navigator item
  - Alert Log (default) workspace
- Archive Navigator item
  - Archive (default) workspace
  - Flash Recovery workspace
- Automatic Storage Management Navigator item
  - ASM Client and Template (default) workspace
  - ASM Disk Capacity workspace
  - ASM Disk Group Capacity workspace
  - ASM Disk Group I/O Statistics workspace
  - ASM Disk I/O Statistics workspace
- Cache Navigator item
  - Buffer Cache (default) workspace
  - Dictionary Cache workspace
  - Library Cache workspace
- Configuration Navigator item
  - Configuration (default) workspace
- Contention Navigator item
  - Contention Overview (default) workspace
  - Latch Children workspace
  - Lock Detail workspace
- Customized SQLs Navigator item
  - Customized SQL Result workspace
  - Customized SQLs (default) workspace

- Database Navigator item
  - Database Statistics (default) workspace
  - Disk Space workspace
  - Resource Limitation workspace
  - System Metric Growth Percent workspace
  - System Metric History workspace
  - System Statistics workspace
- Instance Navigator item
  - Instance OS Statistics workspace
  - Instance Overview (default) workspace
- Memory Navigator item
  - PGA Statistic workspace
  - PGA Target Advice workspace
  - SGA Detail workspace
  - SGA Overview (default) workspace
- Process Navigator item
  - Process (default) workspace
- Real Application Clusters Navigator item
  - Cache Fusion workspace
  - DBA Extents workspace
  - GCS Block Lost (default) workspace
  - GCS CR Latency workspace
  - GCS Current Block workspace
  - GCS Memory workspace
  - GCS Waits workspace
  - GES Enqueue Statistics workspace
  - GES Latency workspace
  - GES Lock workspace
  - GES Memory workspace
  - Messaging Statistics workspace
- Session Navigator item
  - Session (630) workspace
  - Session (default) workspace
  - SQL Text workspace
- Tablespace Navigator item
  - Data Files and Tempfiles Overview workspace
  - Data Files I/O Statistics workspace
  - Data Files I/O Statistics (630) workspace
  - Database Clusters workspace
  - Database Indexes workspace
  - Database Invalid Objects workspace
  - Database Tables workspace
  - Segment Allocation workspace
  - Segment Statistics workspace
  - Tablespace Overview (630) workspace

  - Tablespace Overview (default) workspace
  - Tablespace Usage workspace
- Top SQL Navigator item
  - SQL Text and Execution Plan workspace
  - Top SQL by Buffer Gets workspace
  - Top SQL by Cluster Wait workspace
  - Top SQL by CPU Time workspace
  - Top SQL by Disk Reads workspace
  - Top SQL by Elapsed Time(default) workspace
  - Top SQL by Executions workspace
  - Top SQL by Parse Calls workspace
  - Top SQL by Sharable Memory workspace
  - Top SQL by Version Count workspace
- Undo Navigator item
  - Rollback Segment workspace
  - Undo Tablespace (default) workspace

ASM (ASM) subnode

- ASM Navigator item
  - Oracle ASM Home (default) workspace
- Alert Log Navigator item
  - Alert Log (default) workspace
- Availability Navigator item
  - ASM Availability (default) workspace
- Capacity Navigator item
  - ASM Disk Capacity workspace
  - ASM Disk Group Capacity (default) workspace
  - ASM Files workspace
- Configuration Navigator item
  - ASM Configuration (default) workspace
- IO Statistics Navigator item
  - ASM Disk Group I/O Statistics (default) workspace
  - ASM Disk I/O Statistics workspace
  - ASM Operation workspace

Data Guard (DG) subnode

- Data Guard Navigator item
  - Standby Database Overview (default) workspace
- Alert Log Navigator item
  - Data Guard Alert Log (default) workspace
- Configuration Navigator item
  - Configuration (default) workspace
  - Data File workspace
  - Disk Space workspace
  - Redo Log workspace
- Customized SQLs Navigator item

  - Customized SQL Result workspace
  - Customized SQLs (default) workspace
- Redo Apply Navigator item
  - Redo Apply (default) workspace
- SQL Apply Navigator item
  - SQL Apply (default) workspace
- Transport Navigator item
  - Archived Log (default) workspace
  - Archived Log by Sequence workspace
  - Standby Log workspace

Workspace descriptions

Each workspace description provides information about the workspace such as the purpose and a list of views in the workspace.

Workspaces are listed under Navigator items. When the agent has subnodes, the Navigator items are listed under the subnode.

Oracle Database Extended Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant.

Database Connection (630) workspace

The Database Connection workspace provides detailed information about monitored database connections. This workspace is for the Oracle Database Extended agent version 6.3.0.

This workspace contains the following views:

Database Connection

Provides database connection name, database name, database version, database type, database bit version, and database status.

Agent Event

Provides agent event timestamp, event level, category, instance name, error code, and error message.

Database Connection (default) workspace

The Database Connection workspace provides detailed information about monitored database connections.

This workspace contains the following views:

Database Connection

Provides database connection name, database name, database version, database type, database bit version, and database status.

Agent Event

Provides agent event timestamp, event level, category, instance name, error code, and error message.

Net Service Connection Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant.

Net Service Connection (default) workspace

The Net Service Connection workspace shows the status of the net service connection that is defined in the tnsnames.ora file and the status of listeners.

This workspace contains the following views:

Listeners
Provides the status of the listeners that are defined in the listeners.ora file and the dynamic listener on the same system with the agent. Additional configuration is required for the dynamic listener. This view is available only for local installations.

Net Config Connection
Provides information about the net service that is defined in the tnsnames.ora file and the connection status. If the connection of the net service fails, the error code and error message that indicate the root cause are displayed.

TakeAction Result Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant.

TakeAction Status (default) workspace
The TakeAction Status workspace shows the status of the take action.

This workspace contains the following views:

TakeAction PL/SQL Status
Provides the PL/SQL take action execution result. If the execution succeeds, the 0 return code is displayed in the Action App Return Code column. If the execution fails, a detailed error message is displayed in the Action Results column, and the error code is displayed in the Action App Return Code column.

TakeAction SELECT Status
If the command succeeds, the result of SELECT SQL is displayed in the Action Results column, each cell value is delimitted with a slash (/), and the first row shows the column name. If the execution fails, a detailed error message is displayed in the Action Results column.

Database subnode

This section contains descriptions of predefined workspaces. The workspaces are organized by the Navigator item to which the workspaces are relevant.

Database Navigator item

Oracle RDBMS Database Home (default) workspace
Shows the topology of database services, database instances, and the database.

This workspace contains the following views:

Database Topology
Provides a topology view of database services, database instances, and the database.

Database Information
Provides detailed information about the Oracle database.

Alert Log Navigator item

Alert Log (default) workspace
The RDB Alert Log workspace provides a summary of alert logs and detailed information about each alert log message.

This workspace contains the following views:

RDB Alert Log Summary Chart
Provides total error and total warning counts for each alert log.

RDB Alert Log Summary
Provides log path, total error, and total warning counts for each alert log.

RDB Alert Log Details
Provides severity level, message timestamp, message category, message number, message ID, and message text for each message.

Archive Navigator item

Archive (default) workspace
The Archive workspace shows the archive information about the database.

This workspace contains the following views:

Archive Overview
Provides archive status and other information about the log files.

Archive Destination
Provides destinations of archived redo logs, including current name, status, location, and other items for each destination.

Flash Recovery workspace
The Flash Recovery workspace shows information about the flash recovery area.

This workspace contains the following views:

Flash Recovery Space Usage
Shows the usage of disk space in the flash recovery area.

Flash Recovery Area Spaced By File Type
Shows the percentage of disk space that is used by each type of file in the recovery flash area.

Flash Recovery Database Log Report
Provides the information about flashback data.

Flash Recovery Database Logfile Report
Provides information about flashback log files.

Automatic Storage Management Navigator item

ASM Client and Template (default) workspace
The ASM Client and Template workspace shows the ASM client information and the templates in the ASM.

This workspace contains the following views:

ASM Client
Provides the status and version of the ASM client.

ASM Template
Provides the redundancy, name, and stripe type of the ASM client.

ASM Disk Capacity workspace
The ASM Disk Capacity workspace includes information about the disk capacity.

This workspace contains the following views:

ASM Disk Usage
Provides the percentage of free and used space for the ASM disks.

ASM Disk Capacity
Provides capacity information for the ASM disks.

ASM Disk Group Capacity workspace
The ASM Disk Group Capacity workspace includes information about the disk group and the disk capacity.

This workspace contains the following views:

ASM Disk Group Usage
Provides the percentage of free and used space of the ASM disk groups.

ASM Disk Group Capacity
Provides capacity information for the ASM disk groups. This view links to the ASM Disk Capacity workspace.

ASM Disk Group I/O Statistics workspace
The ASM Disk Group I/O statistics workspace shows the disk group I/O statistics and response time.

This workspace contains the following views:

ASM Disk Group I/O Statistics
Provides I/O performance data for the disk groups. This view links to the ASM Disk I/O Statistics workspace.

ASM Disk Group Response Time
Provides response time data for the disk groups.

ASM Disk I/O Statistics workspace
The ASM Disk I/O statistics workspace shows the disk group and disk I/O statistics and response time.

This workspace contains the following views:

ASM Disk I/O Statistics
Provides I/O performance data for the disks.

ASM Disk Response Time
Provides response time data for the disks.

Cache Navigator item

Buffer Cache (default) workspace
The Buffer Cache workspace shows detailed information about the buffer cache.

This workspace contains the following views:

Buffer cache performance bar chart
Provides the hit ratio of the buffer cache.

Buffer cache performance
Provides the hit ratio, physical reads, database block gets, and consistent gets information about the buffer cache.

Buffer cache activity
Provides detailed activity information about the buffer cache, such as replace number, write number, set number, gotten number, and other items.

Dictionary Cache workspace
The Dictionary Cache workspace shows detailed information about the dictionary cache.

This workspace contains the following views:

Dictionary cache performance chart
Provides the hit ratio of the dictionary cache.

Dictionary cache performance
Provides the hit ratio, request number, and miss number for the dictionary cache.

Dictionary cache performance and activity
Provides the hit ratio and activity of each parameter in the dictionary cache.

Library Cache workspace
The Library Cache workspace shows detailed information about the library cache.

This workspace contains the following views:

Library cache performance chart
Provides the pin hits ratio and first pin hit ratio of the library cache.

Library cache performance and activity
Provides the hit ratio, request number, and miss number for the library cache.

Library cache performance and activity detail
Provides detailed information about each namespace in the library cache.

Configuration Navigator item

Configuration (default) workspace
The RDB Configuration workspace provides detailed information about each database parameter and each database option.

This workspace contains the following views:

Database Parameter
Provides information about database parameters.

Database Option
Provides information about database options.

Contention Navigator item

Contention Overview (default) workspace
The Contention Overview workspace shows the locking and latch statistics in the database.

This workspace contains the following views:

Lock Statistics
Provides all lock information in the database. You can access the Lock Detail workspace from this view.

Lock Conflict
Provides IDs of blocking and waiting sessions, modes of the lock request and lock hold, and name and type of object locked by the blocking session.

Latch Statistics
Provides latch statistics in the database. You can access the Latch Children workspace from this view.

Latch Children workspace
The Latch Children workspace shows details for latch children by latch. You can access this workspace by right-clicking a row in the Latch Statistics view of the Contention workspace and, clicking Link To -> Latch Children.

This workspace contains the following views:

Latch Children by Latch
Provides a graphic view of the willing to wait hit ratio and the immediate hit ratio.

Latch Children by Latch
Provides detail information for latch children of each latch.

Lock Detail workspace
The Lock Detail workspace shows details for locks in the database.

This workspace contains the following view:

Lock Detail by Type
Provides sessions that are currently locked in the database. When you access this view from the Contention Overview workspace, only the sessions that are locked by a specific type of lock are displayed.

Customized SQLs Navigator item

Customized SQL Result workspace
The Customized SQL Result workspace provides the result of the selected customized SQL statements. You can access the Customized SQL Result workspace by right-clicking a row in the Customized SQLs workspace and clicking Link To -> SQL Result.

This workspace contains the following views:

RDB Customized SQL Summary Definition
Provides the SQL content by SQL ID.

Selected Customized SQL Result
Provides the result of the SQL execution for the selected SQL ID.

Customized SQLs (default) workspace
The Customized SQLs workspace provides summary information and the execution status for customized SQL statements that are defined by users.

This workspace contains the following views:

RDB Customized SQL Summary Status
Provides a summary for execution status.

RDB Customized SQL Summary Definition
Provides a summary for customized SQL definition.

Database Navigator item

Database Statistics (default) workspace
The Database statistics workspace shows the statistics information for the database.

This workspace contains the following views:

Database Statistics Summary Chart
Provides the most important statistics metrics for the Oracle database.

Database Statistics Summary
Shows the statistics information for the database.

Disk Space workspace
The Disk Space workspace provides information about the free disk space of the local database. This workspace is available only for local monitoring. The user account for the agent must have the privilege to access Oracle directories, such as the archive destination, data folder, and dump folder.

This workspace contains the following view:

Disk Space
Provides information about the free disk space for the local database.

Resource Limitation workspace
The Resource Limitation workspace shows the global resource consumption.

This workspace contains the following views:

Global Resource Utilization
Shows resources with utilization rates that are higher than 50%.

Global Resource Consumption
Shows the resource consumption for all resources.

System Metric Growth Percent workspace
The System Metric Growth Percent workspace provides system metrics growth percent.

This workspace contains the following view:

System Metric Growth Percent
Provides the metric name, current value, average, and growth ratio. You can link to the System Metric History workspace from this view.

System Metric History workspace
The System Metric History workspace provides metric value in the last 1 hour and the average value per hour in the last 24 hours. You can access the System Metric History workspace by right-clicking a row in the System Metric Growth Percent workspace and, clicking Link To -> System Metric History.

This workspace contains the following views:

System metric history by last hour
Provides system-level metrics history by metrics.

System metric history by last 24 hours
Provides a summary view of the system-level DBA system metrics by metrics.

System Statistics workspace
The System Statistics workspace shows the statistics value of system.

This workspace contains the following view:

System statistics
Provides statistics name, value, and class.

Instance Navigator item

Instance OS Statistics workspace
The Instance OS Statistics workspace shows the statistics of the operating system where the database instances are running.

This workspace contains the following views:

OS Statistics
Provides the idle time, busy time, user time, system time, I/O wait time, nice time, and process running waiting time of the operating system where the database instances are running.

Instance Inter Connection Statistics
Provides the IP address, active CPUs, and load information about the database instances.

Instance Overview (default) workspace
The Instance Overview workspace shows the availability of the database instances.

This workspace contains the following views:

Instance Active Ratio
Shows the active ratio of database instances.

Instance Statistics
Shows the active instance and total instance count in the database.

Instance Status
Shows the current status and compatible version of all database instances.

Active Instance Info
Provides detailed information about all active instances in the database, such as status, version, start time, and other items.

Memory Navigator item

PGA Statistic workspace
The PGA Statistic workspace shows the information about PGA.

This workspace contains the following views:

PGA Overview
Provides the PGA memory usage statistics and statistics about the automatic PGA memory manager.

PGA Detail
Provides detailed PGA memory usage statistics and statistics about the automatic PGA memory manager when it is enabled.

PGA Usage
Provides PGA memory usage statistics.

Cache Hit Percentage
Provides the value of Cache Hit Percentage.

PGA Target Advice workspace
The PGA Target Advice workspace shows statistics of cache hit percentage against PGA target memory size. You can access this workspace by clicking the link icon in the PGA Overview view of the PGA Statistics workspace.

This workspace contains the following views:

PGA Target Advice
Predicts how the cache hit percentage and over allocation count statistics are impacted if the value of the PGA_AGGREGATE_TARGET parameter is changed.

PGA Target and Estimated Hit PCT
Provides the value of the PGA Target for Estimate attribute and the estimated value of the cache hit percentage statistic.

SGA Detail workspace
The SGA Detail workspace shows detailed memory allocation in the SGA.

This workspace contains the following views:

SGA Usage Chart
Provides the buffer cache percentage, Java pool percentage, large pool percentage, shared pool percentage, and other items.

SGA Usage
Provides the detailed size of each part in the SGA, such as buffer cache, Java pool, large pool, and other items.

SGA Detail
Provides the component size of each pool in the SGA.

SGA Overview (default) workspace
The SGA Overview workspace provides SGA allocation overview information.

This workspace contains the following views:

SGA Usage
Provides the ratio of free SGA and used SGA.

Shared Pool Usage.
Provides the ratio of free and used shared pools.

SGA Allocation
Provides the memory allocation in the SGA, percentage of free SGA, and percentage of free shared pools.

Process Navigator item

Process (default) workspace
The Process Overview workspace provides summary and detailed information about the processes.

This workspace contains the following views:

Process Summary Chart
Provides the statistics data for total foregound, total background, total process and total latch watch for each Oracle instance.

Process Summary
Provides a summary of processes that are currently active by server instance.

Process Detail
Provides detailed information about processes that are currently active for the server instances.

Real Application Clusters Navigator item

Cache Fusion workspace
The Cache Fusion workspace shows the efficiency of cache fusion.

This workspace contains the following views:

Cache Fusion Statistics
Provides the DBWR fusion write number and the physical write number.

Cache Fusion Ratio
Provides the ratio of cache fusion.

Cache Fusion Report
Provides detailed information about cache fusion.

DBA Extents workspace
The DBA Extents workspace shows the object that is causing the contention. You can access the DBA Extents workspace by right-clicking a row in the GCS Waits view of the Real Application Cluster workspace and clicking Link To -> DBA Extents.

This workspace contains the following view:

RDB DBA Extents by file and block
Provides the extents comprising the segments in all tablespaces in the database by files and blocks.

GCS Block Lost (default) workspace
The GCS Block Lost workspace shows statistics on blocks that were lost during the transfer among instances.

This workspace contains the following views:

GCS Block Lost Ratio
Provides the ratio of lost blocks.

GCS Block Lost Statistics
Provides the number of lost and corrupt blocks.

GCS Block Lost
Provides the lost block ratio, the number of lost and corrupted blocks, the served CR blocks, and the currently served CR block.

GCS CR Latency workspace
The GCS CR Latency workspace shows latency statistics for the CR Block.

This workspace contains the following views:

GCS CR Latency Statistics
Provides the average received time and served time for the CR Block.

GCS CR Latency Report
Provides the average received time, served time, build time, flush time, and send time for the CR Block.

GCS Current Block workspace
The GCS Current Block workspace shows the send time and receive time statistics for the current block.

This workspace contains the following views:

GCS Current Block Statistics
Provides the average send time and receive time for the current block.

GCS Current Block Report
Provides statistics for time that is consumed for the current block.

GCS Memory workspace
The GCS Memory workspace shows the memory allocation for the GCS.

This workspace contains the following views:

GCS Memory Statistics
Provides information about resource memory, shadow memory, and commit memory in the SGA state that is allocated for the GCS.

GCS Memory Report
Provides detailed information about different parts of memory that are allocated for the GCS.

GCS Waits workspace
The GCS Waits workspace shows sessions that are in waiting status related to GCS.

This workspace contains the following views:

GCS Waits Statistics
Provides the wait time for the sessions that are in waiting status.

GCS Waits
Provides detailed information about sessions that are in waiting status.

GES Enqueue Statistics workspace
The GES Enqueue Statistics workspace shows the enqueue statistics.

This workspace contains the following views:

GES SQ Enqueue Statistics
Provides the total number of wait requests that are of the SQ type.

GES TX Enqueue Statistics
Provides the total number of wait requests that are of the TX type.

GES Enqueue Statistics
Provides detailed statistics of all wait requests in the GES.

GES Latency workspace
The GES Latency workspace shows the latency statistics of the GES.

This workspace contains the following views:

GES Latency Statistics
Provides the average latency time of GES resources.

GES Latency
Provides the get time, sync get number, and async get number of GES resources.

GES Lock workspace
The GES Lock workspace shows the lock information in the GES.

This workspace contains the following views:

GES Lock Statistics
Provides the session wait time for all locked resources.

GES Lock
Provides all lock information about the resources.

GES Memory workspace
The GES Memory workspace shows the memory allocation for the GES.

This workspace contains the following views:

GES Memory Statistics
Provides the size of the big msg buffers, resources, and enqueued memory attributes.

GES Memory Usage
Provides detailed information about different parts of memory allocation in the GES.

Messaging Statistics workspace
The Messaging Statistics workspace shows message send and process time statistics for the GCS and GES.

This workspace contains the following views:

Messaging Statistics
Provides the average message sent time, message received time, GCS process time, and GES process time.

Messaging Statistics Report
Provides detailed information about messages in the GCS and GES.

Session Navigator item

Session (630) workspace
The Session workspace shows the session information in the database. This workspace is for the Oracle Database Extended agent version 6.3.0.

This workspace contains the following views:

Session Summary Chart
Provides overall session statistics.

Session Summary
Provides a graphic view of the overall session statistics.

Session Detail
Provides detailed information about each session.

Session (default) workspace
The Session workspace shows the session information in the database.

This workspace contains the following views:

Session Summary Chart
Provides overall session statistics.

Session Summary
Provides a graphic view of the overall session statistics.

Session Detail
Provides detailed information about each session.

SQL Text workspace
The SQL Text workspace shows SQL Text information. You can access this workspace by clicking the link icon in the Session Detail view of the Session workspace.

This workspace contains the following view:

SQL Text
Provides SQL Text Information.

Tablespace Navigator item

Data Files and Tempfiles Overview workspace
The Data Files and Tempfiles Overview workspace provides information about the use of data files and temporary files.

This workspace contains the following views:

Data Files Usage
Provides information about data file usage.

Data Files Overview
Provides file size, user data size, and status of data files.

Tempfiles Overview
Provides name, size, user data, and status of temporary files.

Data Files I/O Statistics workspace
The Data Files I/O Statistics workspace provides the I/O statistics for each data file.

This workspace contains the following views:

File Metrics for the most recent 10-minute interval
Provides read time, write time, and response time for the data file in the last 10 minutes.

Data File I/O Statistics
Provides read time, write time, and response time for the data file.

Data Files I/O Statistics (630) workspace
The Data Files I/O Statistics workspace provides the I/O statistics for each data file. This workspace is for the Oracle Database Extended agent version 6.3.0.

This workspace contains the following views:

File Metrics for the most recent 10-minute interval
Provides read time, write time, and response time for the data file in the last 10 minutes.

Data File I/O Statistics
Provides read time, write time, and response time for the data file.

Database Clusters workspace
The Database Clusters workspace provides information about all clusters in a specific tablespace. You can access the Database Clusters workspace by right-clicking a row in the Non-Temporary Table Usage view of the Table Usage workspace and, clicking Link To -> Database Clusters.

This workspace contains the following views:

Cluster Size (Top 10)
Provides the sizes of clusters (top 10). The values must be greater than 0. This view is not available for clusters in the SYSAUX, SYSTEM, and NULL tablespaces.

Number of Blocks (Top 10)
Provides the number of blocks in tables (top 10) divided by number of cluster keys. The value must be greater than 0. This view is not available for clusters in the SYSAUX, SYSTEM, and NULL tablespaces.

Database Clusters Overview
Provides information about clusters by tablespace.

Database Indexes workspace

The Database Indexes workspace provides information about all indexes in a specific tablespace. You can access the Database Indexes workspace by right-clicking a row in the Non-Temporary Table Usage view of the Table Usage workspace and clicking Link To->Database Indexes.

This workspace contains the following views:

Index Size (Top 10)
Provides the sizes of indexes (top 10). The values must be greater than 0. This view is not available for the indexes in the tablespaces with the name of SYSAUX, SYSTEM, or NULL.

Average Number of Data Blocks (Top 10)
Provides the average number of data blocks (top 10) in the table that are pointed to by a distinct value in each index rounded to the nearest integer. The value must be greater than 0. This view is not available for the indexes in the SYSAUX, SYSTEM, and NULL tablespaces.

Database Indexes Overview
Provides information about every index by tablespace.

Database Invalid Objects workspace

The Database Objects workspace provides information about the invalid objects of the database.

This workspace contains the following view:

Database Invalid Objects
Provides information about invalid database objects, such as the object name and object type.

Database Tables workspace

The Database Tables workspace provides information about all relational tables in a specified tablespace. You can access the Database Tables workspace by right-clicking a row in the Non-Temporary Table Usage view of the Table Usage workspace and, clicking Link To->Database Tables.

This workspace contains the following views:

Table Size (Top 10)
Provides the sizes of tables (top 10) in the tablespace. The values must be greater than 0. This view is not available for the tables in the SYSAUX, SYSTEM, and NULL tablespaces.

Number of Rows (Top 10)
Provides the number of rows in each table (top 10) by tablespace. The values must be greater than 0. This view is not available for the tables in the SYSAUX, SYSTEM, and NULL tablespaces.

Database Tables Overview
Provides information about every table by tablespace.

Segment Allocation workspace

The Segment Allocation workspace provides information about storage allocated for segments in the database. You can access the Segment Allocation workspace by right-clicking a row in the Tablespace Overview workspace and, click Link To -> Segment Allocation.

This workspace contains the following view:

Segment Allocation
Provides information about the storage allocated for segments in the database, such as the segment owner, the segment type, and the number of free extents.

Segment Statistics workspace

The Segment Statistics workspace provides statistics information about segments.

This workspace contains the following views:

Segment-level statistics by logical reads
Provides the segment information ordered by logical reads.

Segment-level statistics by physical reads
Provides the segment information ordered by physical reads.

Segment-level statistics
Provides the owner, name, and statistics value of segments.

Tablespace Overview (630) workspace

The Tablespace Overview workspace shows detailed information about all tables in the database.

This workspace contains the following views:

Non-Temporary Tablespace Usage
Provides the ratio of used and free non-temporary tablespace.

Temporary Tablespace Usage
Provides the ratio of used and free temporary tablespace.

Tablespace Overview
Provides tablespace status, contents, block size, and extents information. This view links to the Tablespace Usage, Segment Allocation, Data Files and Tempfiles Overview, and Data Files I/O Statistics workspaces.

Tablespace Overview (default) workspace

The Tablespace Overview workspace shows detailed information about all tables in the database.

This workspace contains the following views:

Non-Temporary Tablespace Usage
Provides the ratio of used and free non-temporary tablespace.

Temporary Tablespace Usage
Provides the ratio of used and free temporary tablespace.

Tablespace Overview
Provides tablespace status, contents, block size, and extents information. This view links to the Tablespace Usage, Segment Allocation, Data Files and Tempfiles Overview, and Data Files I/O Statistics workspaces.

Tablespace Usage workspace

The Tablespace Usage workspace provides tablespace usage information.

This workspace contains the following views:

Temporary Tablespace Usage
Provides the used ratio, free ratio, and allocated ratio for the temporary tablespace.

Non-Temporary Tablespace Usage
Provides the used ratio, free ratio, and allocated ratio for the non-temporary tablespace.

Top SQL Navigator item

SQL Text and Execution Plan workspace
Provides the SQL text and execution plan. You can access the SQL Text and Execution Plan workspace by clicking the link icon in a row in the Top SQL workspaces.

This workspace contains the following views:

SQL Execution Plan
Provides the SQL execution plan for the selected SQL ID.

SQL Text
Provides the SQL text for the selected SQL ID.

Top SQL by Buffer Gets workspace
The Top SQL by Buffer Gets workspace provides SQL statistics for the top 20 SQL statements by buffer gets in the last 2 hours. Click the link icon in a row to view the corresponding SQL text and SQL execution plan.

This workspace contains the following view:

Top SQL by Buffer Gets
Provides the top SQL statistics ordered by buffer gets in the last 2 hours.

Top SQL by Cluster Wait workspace
The Top SQL by Cluster Wait workspace provides SQL statistics for the top 20 SQL statements by cluster wait in the last 2 hours. Click the link icon in a row to view the corresponding SQL text and SQL execution plan.

This workspace contains the following view:

Top SQL by Cluster Wait
Provides the top SQL statistics ordered by cluster wait in the last 2 hours.

Top SQL by CPU Time workspace
The Top SQL by CPU Time workspace provides SQL statistics for the top 20 SQL statements by the CPU time used by SQL statements in the last 2 hours. Click the link icon in a row to view the corresponding SQL text and SQL execution plan.

This workspace contains the following view:

Top SQL by CPU Time
Provides the top SQL statistics ordered by CPU time in the last 2 hours.

Top SQL by Disk Reads workspace
The Top SQL by Disk Reads workspace provides SQL statistics for the top 20 SQL statements by disk reads in the last 2 hours. Click the link icon in a row to view the corresponding SQL text and SQL execution plan.

This workspace contains the following view:

Top SQL by Disk Reads
Provides the top SQL statistics ordered by SQL disk reads in the last 2 hours.

Top SQL by Elapsed Time(default) workspace
The Top SQL by Elapsed Time workspace provides SQL statistics for the top 20 SQL statements with the longest elapsed time in the last 2 hours. Click the link icon in a row to view the corresponding SQL text and SQL execution plan.

This workspace contains the following view:

Top SQL by Elapsed Time
Provides the top SQL statistics ordered by SQL elapsed time in the last 2 hours.

Top SQL by Executions workspace
The Top SQL by Executions workspace provides SQL statistics for the top 20 SQL statements by the number of executions in the last 2 hours. Click the link icon in a row to view the corresponding SQL text and SQL execution plan.

This workspace contains the following view:

Top SQL by Executions
Provides the top SQL statistics ordered by SQL executions in the last 2 hours.

Top SQL by Parse Calls workspace
The Top SQL by Parse Calls workspace provides SQL statistics for the top 20 SQL statements by times of parse calls in the last 2 hours. Click the link icon in a row to view the corresponding SQL text and SQL execution plan.

This workspace contains the following view:

Top SQL by Parse Calls
Provides the top SQL statistics ordered by parse calls in the last 2 hours.

Top SQL by Sharable Memory workspace
The Top SQL by Sharable Memory workspace provides SQL statistics for the top 20 SQL statements by sharable memory used by SQL statements in the last 2 hours. Click the link icon in a row to view the corresponding SQL text and SQL execution plan.

This workspace contains the following view:

Top SQL by Sharable Memory
Provides the top SQL statistics ordered by Sharable Memory in the last 2 hours.

Top SQL by Version Count workspace
The Top SQL by Version Count workspace provides SQL statistics for the top 20 SQL statements by version counts in the last 2 hours. Click the link icon in a row to view the corresponding SQL text and SQL execution plan.

This workspace contains the following view:

Top SQL by Version Count
Provides the top SQL statistics ordered by version counts in the last 2 hours.

Undo Navigator item

Rollback Segment workspace
The Rollback Segment workspace shows statistics of rollback segments.

This workspace contains the following views:

Rollback Segment Summary Chart
Provides a chart of the statistics for rollback segments.

Rollback Segment Summary
Provides a table of the statistics for rollback segments.

Rollback Segment Detail
Provides detailed information for rollback segments.

Undo Tablespace (default) workspace
The Undo Tablespace workspace provides detailed information about the undo tablespace.

This workspace contains the following view:

Undo Tablespace
Provides statistics of the undo tablespace in descending order of end time.

ASM subnode

This section contains descriptions of predefined workspaces. The workspaces are organized by the Navigator item to which the workspaces are relevant.

ASM Navigator item

Oracle ASM Home (default) workspace

The ASM workspace shows the topology of ASM instances, ASM diskgroups, and ASM disks.

This workspace contains the following views:

ASM Instance Topology
Provides a topology view of ASM instances, ASM diskgroups, and ASM disks.

ASM Instance Information
Provides detailed information for the ASM instance.

Alert Log Navigator item

Alert Log (default) workspace

The ASM Alert Log workspace provides a summary of alert logs and detailed information about each alert log message.

This workspace contains the following views:

ASM Alert Log Summary Chart
Provides total error and total warning counts for each alert log.

ASM Alert Log Summary
Provides log path and total error and total warning counts for each alert log.

ASM Alert Log Detail
Provides severity level, message timestamp, message category, message number, message ID, and message text for each message.

Availability Navigator item

ASM Availability (default) workspace

The ASM Availability workspace shows the current status of the ASM instance, ASM client, and ASM process.

This workspace contains the following views:

ASM Instance
Provides the status of the ASM instance.

ASM Client
Provides detailed information for the ASM client.

ASM Process
Provides detailed information for the ASM process.

Capacity Navigator item

ASM Disk Capacity workspace

The ASM Disk Capacity workspace shows detailed information about disk groups, disks, and files in the ASM system.

This workspace contains the following views:

ASM Disk Usage
Provides detailed information about disk usage in the ASM system.

ASM Disk Capacity
Provides detailed information about disk capacity in the ASM system.

ASM Disk Group Capacity (default) workspace
The ASM Disk Group Capacity workspace shows detailed information about the disk groups in the ASM system.

This workspace contains the following views:

ASM Disk Group Capacity
Provides detailed information about all disk groups in the ASM system. This view links to ASM Disk Capacity workspace.

ASM Disk Group Usage
Provides detailed information about disk usage for all disk groups in the ASM system.

ASM Files workspace
The ASM Files workspace shows detailed information about the database files in the ASM system.

This workspace contains the following view:

ASM Files
Provides detailed information about the database files in the ASM system.

Configuration Navigator item

ASM Configuration (default) workspace
The ASM Configuration workspace shows the templates and parameters of the ASM system.

This workspace contains the following views:

ASM Template
Provides detailed information for the ASM templates.

ASM Parameter
Provides detailed information for all defined parameters in the ASM system.

IO Statistics Navigator item

ASM Disk Group I/O Statistics (default) workspace
The ASM Disk Group I/O Statistics workspace provides the I/O statistics of ASM disk groups.

This workspace contains the following views:

ASM Disk Group I/O Statistics
Provides I/O statistics for ASM disk groups. This view links to the ASM Disk I/O Statistics workspace.

ASM Disk Group Response Time
Provides response time for the ASM disk groups.

ASM Disk I/O Statistics workspace
The ASM Disk I/O Statistics workspace shows the disk I/O statistics and response time.

This workspace contains the following views:

ASM Disk I/O Statistics
Provides I/O performance data for the ASM disks.

ASM Disk Response Time
Provides Response Time data for the ASM disks.

ASM Operation workspace
The ASM Operation workspace shows the active ASM long-running operation that is executing.

This workspace contains the following view:

ASM Operation
Displays one row for every active ASM long-running operation that is executing.

Data Guard subnode

This section contains descriptions of predefined workspaces. The workspaces are organized by the Navigator item to which the workspaces are relevant.

Data Guard Navigator item

Standby Database Overview (default) workspace
The Standby Database Overview workspace shows the overall status of the standby database.

This workspace contains the following views:

Standby Progress Summary
Shows the transport lag and application lag in seconds for the standby database.

Database Information
Provides detailed information about the standby database, such as the protection mode of the database, and whether the database is enabled for fast-start failover.

Standby Database Status
Provides a list of events that take place in the standby database.You can view detailed information about each event, such as the facility and the message that are associated with the event.

Alert Log Navigator item

Data Guard Alert Log (default) workspace
The Data Guard Alert Log workspace provides a summary of alert logs and detailed information about each alert log message.

This workspace contains the following views:

Data Guard Alert Log Summary Chart
Provides a graphic view of the total error and total warning counts for each alert log.

Data Guard Alert Log Summary
Provides the log path, the error counts, and the warning counts for each alert log.

Data Guard Alert Log Details
Provides the severity level, message timestamp, message category, message number, message ID, and message text for each message in the alert logs.

Configuration Navigator item

Configuration (default) workspace
The Configuration workspace shows information about the database parameters and archive destinations.

This workspace contains the following views:

Parameters
Provides information about the database parameters that are related to standby configuration.

Archive Destination and Status
Provides a list of configured archive destinations and the status of each destination.

Data File workspace

The Data File workspace shows information about datafiles.

This workspace contains the following views:

Online Data File Size
Shows the size of each datafile.

Data File Report
Provides the detailed information of each Oracle datafile, such as the status of the datafile and the name of the tablespace that contains the datafile.

Disk Space workspace

The Disk Space workspace shows the amount of free space at the archive and dump destination, and the location of datafiles. This workspace is available only for local monitoring. And the user account for the agent must have the privilege to access Oracle directories, such as archive destination, the data folder, and the dump folder.

This workspace contains the following view:

Disk Space
Provides the amount of free space and the percentage of free disk space. This view is available only when the agent is deployed on the same system with the Oracle database.

Redo Log workspace

The Redo Log workspace shows information about redo logs.

This workspace contains the following views:

Redo Log
Provides detailed information about redo logs, such as the status of a redo log and the lowest System Change Number in a redo log.

Redo Log File
Provides detailed information about redo log files, such as the type and status of a redo log file.

Customized SQLs Navigator item

Customized SQL Result workspace

The Customized SQL Result workspace provides the result of the selected customized SQL statements. You can access the Customized SQL Result workspace by right-clicking a row in the Customized SQLs workspace and, clicking Link To -> SQL Result.

This workspace contains the following views:

DG Customized SQL Summary Definition
Provides the SQL content by SQLID.

Selected Customized SQL Result
Provides the result of the SQL execution for the selected SQL ID.

Customized SQLs (default) workspace

The Customized SQLs workspace provides summary information and execution status for customized SQLs defined by users.

This workspace contains the following views:

DG Customized SQL Summary Status
Provides a summary of execution status.

DG Customized SQL Summary Definition
Provides a summary of customized SQL definition.

Redo Apply Navigator item

Redo Apply (default) workspace

The Redo Apply workspace shows the status of the Redo Apply. This workspace is available only for physical standby databases.

This workspace contains the following views:

Apply Reta Summary
Shows the active apply rate against the average apply rate.

Process Status
Lists all redo apply processes, such as RFS, MRP0, and ARCH, and provides detailed information about each process.

SQL Apply Navigator item

SQL Apply (default) workspace

The SQL Apply workspace shows the status and performance of SQL Apply service. This workspace is available only for the logical standby database.

This workspace contains the following views:

SQL Apply Lag
Provides statistics for the apply lag and redo log lag.

Logical Standby Progress by SCN
Shows the SCN (system change number) gap between mining and applied.

Logical Standby Progress by Time
Shows the time between applied and mining.

Logical Standby Process
Shows the status of the SQL Apply process.

Transport Navigator item

Archived Log (default) workspace

The Archive Log workspace shows information about archived logs.

This workspace contains the following views:

Log History Statistics
Shows the number of the archived logs for each day. Use this chart to understand the recent activities of archive logs, and how frequently logs are archived.

Latest Archived Log
Provides information about the latest archived log.

Archive Gap
Shows whether a gap in the archive log exists.

Archived Log by Sequence workspace

The Standby Log workspace shows all the archived logs in the standby database. You can access the Archived Log by Sequence workspace by right-clicking a row in the Archive Gap view of the Archived Log workspace and clicking Link To->Archived Log by Sequence.

This workspace contains the following view:

Archived Log by Sequence
Provides archived log information by sequence.

Standby Log workspace

The Standby Log workspace shows information about Standby log.

This workspace contains the following views:

Active Standby Log Usage
Shows the usage of the active standby log.

Standby Log Report
Provides the detailed information about the standby log that is configured in the database.

Chapter 4. Attributes reference

Attributes are the application properties that are being measured and reported by the IBM Tivoli Composite Application Manager Extended Agent for Oracle Database.

About attributes

Attributes are organized into attribute groups. Attributes in an attribute group relate to a single object such as an application, or to a single kind of data such as status information.

Attributes in a group can be used in queries, query-based views, situations, policy workflows, take action definitions, and launch application definitions. Chart or table views and situations are two examples of how attributes in a group can be used:

- Chart or table views

  Attributes are displayed in chart and table views. The chart and table views use queries to specify which attribute values to request from a monitoring agent. You use the Properties editor to apply filters and set styles to define the content and appearance of a view based on an existing query.
- Situations

  You use attributes to create situations that monitor the state of your operating system, database, or application. A situation describes a condition you want to test. When you start a situation, the values you assign to the situation attributes are compared with the values collected by the Oracle Database Extended agent and registers an *event* if the condition is met. You are alerted to events by indicator icons that are displayed in the Navigator.

Additional information about attributes

For more information about using attributes and attribute groups, see the *Tivoli Enterprise Portal User's Guide*.

For a list of the attribute groups, a list of the attributes in each attribute group, and descriptions of the attributes for this monitoring agent, see "Attribute groups for the monitoring agent" and "Attributes in each attribute group" on page 73.

Attribute groups for the monitoring agent

The Oracle Database Extended agent contains the following attribute groups. The table name depends on the maximum table name limits of the target database being used for the Tivoli Data Warehouse. If the maximum name is 30 characters, any warehouse table name longer than 30 characters is shortened to 30 characters.

- Attribute group name: Agent Event
  - Table name: KRZAGINF
  - Warehouse table name: KRZ_AGENT_EVENT or KRZAGINF
- Attribute group name: Agent Listener
  - Table name: KRZAGTLSNR
  - Warehouse table name: KRZ_AGENT_LISTENER or KRZAGTLSNR
- Attribute group name: Agent Remote Connection
  - Table name: KRZAGTNETS
  - Warehouse table name: KRZ_AGENT_REMOTE_CONNECTION or KRZAGTNETS
- Attribute group name: ASM Alert Log Details

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- Attribute group name: ASM Alert Log Summary
  - Table name: KRZASMLOGS
  - Warehouse table name: KRZ_ASM_ALERT_LOG_SUMMARY or KRZASMLOGS
- Attribute group name: ASM BGProcess Stats
  - Table name: KRZASMBGPS
  - Warehouse table name: KRZ_ASM_BGPROCESS_STATS or KRZASMBGPS
- Attribute group name: ASM Client
  - Table name: KRZASMCLIT
  - Warehouse table name: KRZ_ASM_CLIENT or KRZASMCLIT
- Attribute group name: ASM Database Topology
- Attribute group name: ASM Disk
  - Table name: KRZASMDISK
  - Warehouse table name: KRZ_ASM_DISK or KRZASMDISK
- Attribute group name: ASM DiskGroup
  - Table name: KRZASMDKGP
  - Warehouse table name: KRZ_ASM_DISKGROUP or KRZASMDKGP
- Attribute group name: ASM DiskGroupIOSTAT
  - Table name: KRZASMDGIO
  - Warehouse table name: KRZ_ASM_DISKGROUPIOSTAT or KRZASMDGIO
- Attribute group name: ASM DiskIOSTAT
  - Table name: KRZASMDKIO
  - Warehouse table name: KRZ_ASM_DISKIOSTAT or KRZASMDKIO
- Attribute group name: ASM FileInfo
  - Table name: KRZASMFILE
  - Warehouse table name: KRZ_ASM_FILEINFO or KRZASMFILE
- Attribute group name: ASM Instance
  - Table name: KRZASMINST
  - Warehouse table name: KRZ_ASM_INSTANCE or KRZASMINST
- Attribute group name: ASM Operation
  - Table name: KRZASMOPRA
  - Warehouse table name: KRZ_ASM_OPERATION or KRZASMOPRA
- Attribute group name: ASM Parameter
  - Table name: KRZASMPARA
  - Warehouse table name: KRZ_ASM_PARAMETER or KRZASMPARA
- Attribute group name: ASM Performance Object Status
  - Table name: KRZASMPOS
  - Warehouse table name: KRZ_ASM_PERFORMANCE_OBJECT_STATUS or KRZASMPOS
- Attribute group name: ASM Process
  - Table name: KRZASMPROS
  - Warehouse table name: KRZ_ASM_PROCESS or KRZASMPROS
- Attribute group name: ASM Template
  - Table name: KRZASMTMPL
  - Warehouse table name: KRZ_ASM_TEMPLATE or KRZASMTMPL
- Attribute group name: Database Information
  - Table name: KRZDBINF

  - Warehouse table name: KRZ_DATABASE_INFORMATION or KRZDBINF
- Attribute group name: Database Overview
  - Table name: KRZDBINFO
  - Warehouse table name: KRZ_DATABASE_OVERVIEW or KRZDBINFO
- Attribute group name: DG Alert Log Details
- Attribute group name: DG Alert Log Summary
  - Table name: KRZDGALOGS
  - Warehouse table name: KRZ_DG_ALERT_LOG_SUMMARY or KRZDGALOGS
- Attribute group name: DG Archive Dest
  - Table name: KRZDGARCHD
  - Warehouse table name: KRZ_DG_ARCHIVE_DEST or KRZDGARCHD
- Attribute group name: DG Archive Dest and Status
  - Table name: KRZDGDSTST
  - Warehouse table name: KRZ_DG_ARCHIVE_DEST_AND_STATUS or KRZDGDSTST
- Attribute group name: DG Archive Dest Status
  - Table name: KRZDGARCHS
  - Warehouse table name: KRZ_DG_ARCHIVE_DEST_STATUS or KRZDGARCHS
- Attribute group name: DG Archive Gap
  - Table name: KRZDGARCHG
  - Warehouse table name: KRZ_DG_ARCHIVE_GAP or KRZDGARCHG
- Attribute group name: DG Archived Log
  - Table name: KRZDGARCHL
  - Warehouse table name: KRZ_DG_ARCHIVED_LOG or KRZDGARCHL
- Attribute group name: DG BGProcess Stats
  - Table name: KRZDGBGPS
  - Warehouse table name: KRZ_DG_BGPROCESS_STATS or KRZDGBGPS
- Attribute group name: DG Customized SQL Detail
  - Table name: KRZDGCUSQ
  - Warehouse table name: KRZ_DG_CUSTOMIZED_SQL_DETAIL or KRZDGCUSQ
- Attribute group name: DG Customized SQL Summary
  - Table name: KRZDGCUSS
  - Warehouse table name: KRZ_DG_CUSTOMIZED_SQL_SUMMARY or KRZDGCUSS
- Attribute group name: DG Database Overview
  - Table name: KRZDGDBINF
  - Warehouse table name: KRZ_DG_DATABASE_OVERVIEW or KRZDGDBINF
- Attribute group name: DG DataFile
  - Table name: KRZDGDATAF
  - Warehouse table name: KRZ_DG_DATAFILE or KRZDGDATAF
- Attribute group name: DG Disk Space
  - Table name: KRZDGDKSP
  - Warehouse table name: KRZ_DG_DISK_SPACE or KRZDGDKSP
- Attribute group name: DG Latest Archived Log
  - Table name: KRZDGLARCH
  - Warehouse table name: KRZ_DG_LATEST_ARCHIVED_LOG or KRZDGLARCH
- Attribute group name: DG Log

  - Table name: KRZDGLOG
  - Warehouse table name: KRZ_DG_LOG or KRZDGLOG
- Attribute group name: DG Log History
  - Table name: KRZDGLOGHI
  - Warehouse table name: KRZ_DG_LOG_HISTORY or KRZDGLOGHI
- Attribute group name: DG Log History Stat
  - Table name: KRZDGLOGHS
  - Warehouse table name: KRZ_DG_LOG_HISTORY_STAT or KRZDGLOGHS
- Attribute group name: DG Logfile
  - Table name: KRZDGLOGF
  - Warehouse table name: KRZ_DG_LOGFILE or KRZDGLOGF
- Attribute group name: DG Logstdby Process
  - Table name: KRZDGSTDPO
  - Warehouse table name: KRZ_DG_LOGSTDBY_PROCESS or KRZDGSTDPO
- Attribute group name: DG Logstdby Process Stat
  - Table name: KRZDGSTDPS
  - Warehouse table name: KRZ_DG_LOGSTDBY_PROCESS_STAT or KRZDGSTDPS
- Attribute group name: DG Logstdby Progress
  - Table name: KRZDGSTDPG
  - Warehouse table name: KRZ_DG_LOGSTDBY_PROGRESS or KRZDGSTDPG
- Attribute group name: DG Logstdby State
  - Table name: KRZDGLOGST
  - Warehouse table name: KRZ_DG_LOGSTDBY_STATE or KRZDGLOGST
- Attribute group name: DG Logstdby Statistics
  - Table name: KRZDGSTDST
  - Warehouse table name: KRZ_DG_LOGSTDBY_STATISTICS or KRZDGSTDST
- Attribute group name: DG Logstdby Stats
  - Table name: KRZDGLOGSS
  - Warehouse table name: KRZ_DG_LOGSTDBY_STATS or KRZDGLOGSS
- Attribute group name: DG Managed Standby
  - Table name: KRZDGMGSTD
  - Warehouse table name: KRZ_DG_MANAGED_STANDBY or KRZDGMGSTD
- Attribute group name: DG Managed Standby Stat
  - Table name: KRZDGMGSTS
  - Warehouse table name: KRZ_DG_MANAGED_STANDBY_STAT or KRZDGMGSTS
- Attribute group name: DG Parameter
  - Table name: KRZDGPARA
  - Warehouse table name: KRZ_DG_PARAMETER or KRZDGPARA
- Attribute group name: DG Performance Object Status
  - Table name: KRZDGPOS
  - Warehouse table name: KRZ_DG_PERFORMANCE_OBJECT_STATUS or KRZDGPOS
- Attribute group name: DG Recovery Progress
  - Table name: KRZDGRECPR
  - Warehouse table name: KRZ_DG_RECOVERY_PROGRESS or KRZDGRECPR
- Attribute group name: DG Standby Log

  - Table name: KRZDGSTDLG
  - Warehouse table name: KRZ_DG_STANDBY_LOG or KRZDGSTDLG
- Attribute group name: DG Stats
  - Table name: KRZDGSTATS
  - Warehouse table name: KRZ_DG_STATS or KRZDGSTATS
- Attribute group name: DG Status
  - Table name: KRZDGSTATU
  - Warehouse table name: KRZ_DG_STATUS or KRZDGSTATU
- Attribute group name: Monitored Databases
  - Table name: KRZDAG
  - Warehouse table name: KRZ_MONITORED_DATABASES or KRZDAG
- Attribute group name: Performance Object Status
  - Table name: KRZPOBJST
  - Warehouse table name: KRZ_PERFORMANCE_OBJECT_STATUS or KRZPOBJST
- Attribute group name: RDB Active Instance
  - Table name: KRZACTINS
  - Warehouse table name: KRZ_RDB_ACTIVE_INSTANCE or KRZACTINS
- Attribute group name: RDB Alert Log Details
- Attribute group name: RDB Alert Log Summary
  - Table name: KRZRDBLOGS
  - Warehouse table name: KRZ_RDB_ALERT_LOG_SUMMARY or KRZRDBLOGS
- Attribute group name: RDB Archive Dest
  - Table name: KRZARCDEST
  - Warehouse table name: KRZ_RDB_ARCHIVE_DEST or KRZARCDEST
- Attribute group name: RDB Archive Overview
  - Table name: KRZARCHIVE
  - Warehouse table name: KRZ_RDB_ARCHIVE_OVERVIEW or KRZARCHIVE
- Attribute group name: RDB ASM Client
  - Table name: KRZRAMCLIT
  - Warehouse table name: KRZ_RDB_ASM_CLIENT or KRZRAMCLIT
- Attribute group name: RDB ASM Disk
  - Table name: KRZRAMDISK
  - Warehouse table name: KRZ_RDB_ASM_DISK or KRZRAMDISK
- Attribute group name: RDB ASM DiskGroup
  - Table name: KRZRAMDKGP
  - Warehouse table name: KRZ_RDB_ASM_DISKGROUP or KRZRAMDKGP
- Attribute group name: RDB ASM DiskGroupIOSTAT
  - Table name: KRZRAMDGIO
  - Warehouse table name: KRZ_RDB_ASM_DISKGROUPIOSTAT or KRZRAMDGIO
- Attribute group name: RDB ASM DiskIOSTAT
  - Table name: KRZRAMDKIO
  - Warehouse table name: KRZ_RDB_ASM_DISKIOSTAT or KRZRAMDKIO
- Attribute group name: RDB ASM Template
  - Table name: KRZRAMTMPL
  - Warehouse table name: KRZ_RDB_ASM_TEMPLATE or KRZRAMTMPL

- Attribute group name: RDB BGProcess Stats
  - Table name: KRZRDBBGPS
  - Warehouse table name: KRZ_RDB_BGPROCESS_STATS or KRZRDBBGPS
- Attribute group name: RDB Buffer Cache Detail
  - Table name: KRZBUFCADE
  - Warehouse table name: KRZ_RDB_BUFFER_CACHE_DETAIL or KRZBUFCADE
- Attribute group name: RDB Buffer Cache Ratio
  - Table name: KRZBUFCART
  - Warehouse table name: KRZ_RDB_BUFFER_CACHE_RATIO or KRZBUFCART
- Attribute group name: RDB Cache Fusion Write
  - Table name: KRZCAFURA
  - Warehouse table name: KRZ_RDB_CACHE_FUSION_WRITE or KRZCAFURA
- Attribute group name: RDB Cluster AVG BLKS
  - Table name: KRZDBCABK
  - Warehouse table name: KRZ_RDB_CLUSTER_AVG_BLKS or KRZDBCABK
- Attribute group name: RDB Cluster Size
  - Table name: KRZDBCLSZ
  - Warehouse table name: KRZ_RDB_CLUSTER_SIZE or KRZDBCLSZ
- Attribute group name: RDB Clusters
  - Table name: KRZDBCLUS
  - Warehouse table name: KRZ_RDB_CLUSTERS or KRZDBCLUS
- Attribute group name: RDB Customized SQL Detail
  - Table name: KRZRDBCUSQ
  - Warehouse table name: KRZ_RDB_CUSTOMIZED_SQL_DETAIL or KRZRDBCUSQ
- Attribute group name: RDB Customized SQL Summary
  - Table name: KRZRDBCUSS
  - Warehouse table name: KRZ_RDB_CUSTOMIZED_SQL_SUMMARY or KRZRDBCUSS
- Attribute group name: RDB Database Statistics Summary
  - Table name: KRZRDBSTAT
  - Warehouse table name: KRZ_RDB_DATABASE_STATISTICS_SUMMARY or KRZRDBSTAT
- Attribute group name: RDB Database Topology
- Attribute group name: RDB DataFile Count
  - Table name: KRZDAFCOUT
  - Warehouse table name: KRZ_RDB_DATAFILE_COUNT or KRZDAFCOUT
- Attribute group name: RDB DataFile IO
  - Table name: KRZDAFIO
  - Warehouse table name: KRZ_RDB_DATAFILE_IO or KRZDAFIO
- Attribute group name: RDB DataFile Overview
  - Table name: KRZDAFOVEW
  - Warehouse table name: KRZ_RDB_DATAFILE_OVERVIEW or KRZDAFOVEW
- Attribute group name: RDB DBA Extents
- Attribute group name: RDB DBA HIST SQL PLAN
- Attribute group name: RDB Dba Hist SysMetric Summary
- Attribute group name: RDB Dictionary Cache Detail
  - Table name: KRZDICCADE

  - Warehouse table name: KRZ_RDB_DICTIONARY_CACHE_DETAIL or KRZDICCADE
- Attribute group name: RDB Dictionary Cache Ratio
  - Table name: KRZDICCART
  - Warehouse table name: KRZ_RDB_DICTIONARY_CACHE_RATIO or KRZDICCART
- Attribute group name: RDB Disk Space
  - Table name: KRZRDBDKSP
  - Warehouse table name: KRZ_RDB_DISK_SPACE or KRZRDBDKSP
- Attribute group name: RDB Flash Recovery Area Usage
  - Table name: KRZRDBFRA
  - Warehouse table name: KRZ_RDB_FLASH_RECOVERY_AREA_USAGE or KRZRDBFRA
- Attribute group name: RDB Flashback Database Log
  - Table name: KRZRDBFDL
  - Warehouse table name: KRZ_RDB_FLASHBACK_DATABASE_LOG or KRZRDBFDL
- Attribute group name: RDB Flashback Database Logfile
  - Table name: KRZRDBFDLF
  - Warehouse table name: KRZ_RDB_FLASHBACK_DATABASE_LOGFILE or KRZRDBFDLF
- Attribute group name: RDB GCS Block Lost
  - Table name: KRZGCSBLO
  - Warehouse table name: KRZ_RDB_GCS_BLOCK_LOST or KRZGCSBLO
- Attribute group name: RDB GCS CR Latency
  - Table name: KRZGCSCRL
  - Warehouse table name: KRZ_RDB_GCS_CR_LATENCY or KRZGCSCRL
- Attribute group name: RDB GCS Cur Block
  - Table name: KRZGCSCRB
  - Warehouse table name: KRZ_RDB_GCS_CUR_BLOCK or KRZGCSCRB
- Attribute group name: RDB GCS Mem
  - Table name: KRZGCSMEM
  - Warehouse table name: KRZ_RDB_GCS_MEM or KRZGCSMEM
- Attribute group name: RDB GES Enq Stat
  - Table name: KRZGESENQS
  - Warehouse table name: KRZ_RDB_GES_ENQ_STAT or KRZGESENQS
- Attribute group name: RDB GES Latency
  - Table name: KRZGESLAT
  - Warehouse table name: KRZ_RDB_GES_LATENCY or KRZGESLAT
- Attribute group name: RDB GES Lock
  - Table name: KRZGESLOCK
  - Warehouse table name: KRZ_RDB_GES_LOCK or KRZGESLOCK
- Attribute group name: RDB GES Mem
  - Table name: KRZGESMEM
  - Warehouse table name: KRZ_RDB_GES_MEM or KRZGESMEM
- Attribute group name: RDB Index AVG Data Block
  - Table name: KRZDBIXAB
  - Warehouse table name: KRZ_RDB_INDEX_AVG_DATA_BLOCK or KRZDBIXAB
- Attribute group name: RDB Index Size
  - Table name: KRZDBIXSZ

  - Warehouse table name: KRZ_RDB_INDEX_SIZE or KRZDBIXSZ
- Attribute group name: RDB Indexes
  - Table name: KRZDBIDXS
  - Warehouse table name: KRZ_RDB_INDEXES or KRZDBIDXS
- Attribute group name: RDB Instance Info
  - Table name: KRZINSTINF
  - Warehouse table name: KRZ_RDB_INSTANCE_INFO or KRZINSTINF
- Attribute group name: RDB Instances Active Ratio
  - Table name: KRZACTINSR
  - Warehouse table name: KRZ_RDB_INSTANCES_ACTIVE_RATIO or KRZACTINSR
- Attribute group name: RDB Inter Connections
  - Table name: KRZINTCON
  - Warehouse table name: KRZ_RDB_INTER_CONNECTIONS or KRZINTCON
- Attribute group name: RDB Latch Children
- Attribute group name: RDB Latch Statistics
  - Table name: KRZRDBLAT
  - Warehouse table name: KRZ_RDB_LATCH_STATISTICS or KRZRDBLAT
- Attribute group name: RDB Library Cache Detail
  - Table name: KRZLIBCADE
  - Warehouse table name: KRZ_RDB_LIBRARY_CACHE_DETAIL or KRZLIBCADE
- Attribute group name: RDB Library Cache Ratio
  - Table name: KRZLIBCART
  - Warehouse table name: KRZ_RDB_LIBRARY_CACHE_RATIO or KRZLIBCART
- Attribute group name: RDB Lock Conflict
  - Table name: KRZRDBLSES
  - Warehouse table name: KRZ_RDB_LOCK_CONFLICT or KRZRDBLSES
- Attribute group name: RDB Lock Detail
  - Table name: KRZRDBLKD
  - Warehouse table name: KRZ_RDB_LOCK_DETAIL or KRZRDBLKD
- Attribute group name: RDB Lock Statistics
  - Table name: KRZRDBLS
  - Warehouse table name: KRZ_RDB_LOCK_STATISTICS or KRZRDBLS
- Attribute group name: RDB Msg Stat
  - Table name: KRZMSGSTAT
  - Warehouse table name: KRZ_RDB_MSG_STAT or KRZMSGSTAT
- Attribute group name: RDB Objects
  - Table name: KRZRDBOBJS
  - Warehouse table name: KRZ_RDB_OBJECTS or KRZRDBOBJS
- Attribute group name: RDB Option
  - Table name: KRZRDBOPTS
  - Warehouse table name: KRZ_RDB_OPTION or KRZRDBOPTS
- Attribute group name: RDB Parameter
  - Table name: KRZRDBPARA
  - Warehouse table name: KRZ_RDB_PARAMETER or KRZRDBPARA
- Attribute group name: RDB Performance Object Status

  - Table name: KRZRDBPOS
  - Warehouse table name: KRZ_RDB_PERFORMANCE_OBJECT_STATUS or KRZRDBPOS
- Attribute group name: RDB PGA Detail
  - Table name: KRZRDPGADT
  - Warehouse table name: KRZ_RDB_PGA_DETAIL or KRZRDPGADT
- Attribute group name: RDB PGA Overview
  - Table name: KRZRDPGAOV
  - Warehouse table name: KRZ_RDB_PGA_OVERVIEW or KRZRDPGAOV
- Attribute group name: RDB PGA Target Advice
  - Table name: KRZRDBPTA
  - Warehouse table name: KRZ_RDB_PGA_TARGET_ADVICE or KRZRDBPTA
- Attribute group name: RDB Process Detail
  - Table name: KRZRDBPROD
  - Warehouse table name: KRZ_RDB_PROCESS_DETAIL or KRZRDBPROD
- Attribute group name: RDB Process Summary
  - Table name: KRZRDBPROS
  - Warehouse table name: KRZ_RDB_PROCESS_SUMMARY or KRZRDBPROS
- Attribute group name: RDB Recovery File Dest
  - Table name: KRZRDBRFD
  - Warehouse table name: KRZ_RDB_RECOVERY_FILE_DEST or KRZRDBRFD
- Attribute group name: RDB Resource Limitation
  - Table name: KRZRESLIMN
  - Warehouse table name: KRZ_RDB_RESOURCE_LIMITATION or KRZRESLIMN
- Attribute group name: RDB Rollback Segment Detail
  - Table name: KRZRDBRSD
  - Warehouse table name: KRZ_RDB_ROLLBACK_SEGMENT_DETAIL or KRZRDBRSD
- Attribute group name: RDB Rollback Segment Summary
  - Table name: KRZRDBRSS
  - Warehouse table name: KRZ_RDB_ROLLBACK_SEGMENT_SUMMARY or KRZRDBRSS
- Attribute group name: RDB Segment Allocation
- Attribute group name: RDB Segment Statistics
  - Table name: KRZSEGSTAT
  - Warehouse table name: KRZ_RDB_SEGMENT_STATISTICS or KRZSEGSTAT
- Attribute group name: RDB Session Details
  - Table name: KRZSESSDTL
  - Warehouse table name: KRZ_RDB_SESSION_DETAILS or KRZSESSDTL
- Attribute group name: RDB Session Summary
  - Table name: KRZSESSSMY
  - Warehouse table name: KRZ_RDB_SESSION_SUMMARY or KRZSESSSMY
- Attribute group name: RDB Session Wait
  - Table name: KRZSEWARAC
  - Warehouse table name: KRZ_RDB_SESSION_WAIT or KRZSEWARAC
- Attribute group name: RDB SGA Detail
  - Table name: KRZSGADETL
  - Warehouse table name: KRZ_RDB_SGA_DETAIL or KRZSGADETL

- Attribute group name: RDB SGA Overview
  - Table name: KRZSGAOVEW
  - Warehouse table name: KRZ_RDB_SGA_OVERVIEW or KRZSGAOVEW
- Attribute group name: RDB SGA Size
  - Table name: KRZSGASIZE
  - Warehouse table name: KRZ_RDB_SGA_SIZE or KRZSGASIZE
- Attribute group name: RDB SQLTEXT
  - Table name: KRZDBSQLT
  - Warehouse table name: KRZ_RDB_SQLTEXT or KRZDBSQLT
- Attribute group name: RDB Sys Metric
  - Table name: KRZSMETRIC
  - Warehouse table name: KRZ_RDB_SYS_METRIC or KRZSMETRIC
- Attribute group name: RDB Sys Metric Growth Percent
  - Table name: KRZSMETGP
  - Warehouse table name: KRZ_RDB_SYS_METRIC_GROWTH_PERCENT or KRZSMETGP
- Attribute group name: RDB Sys Metric History
- Attribute group name: RDB Sys Statistics
  - Table name: KRZSYSSTAT
  - Warehouse table name: KRZ_RDB_SYS_STATISTICS or KRZSYSSTAT
- Attribute group name: RDB Table Num Rows
  - Table name: KRZDBTBNR
  - Warehouse table name: KRZ_RDB_TABLE_NUM_ROWS or KRZDBTBNR
- Attribute group name: RDB Table Size
  - Table name: KRZDBTBSZ
  - Warehouse table name: KRZ_RDB_TABLE_SIZE or KRZDBTBSZ
- Attribute group name: RDB Tables
  - Table name: KRZDBTABLS
  - Warehouse table name: KRZ_RDB_TABLES or KRZDBTABLS
- Attribute group name: RDB Tablespace Overview
  - Table name: KRZTSOVEW
  - Warehouse table name: KRZ_RDB_TABLESPACE_OVERVIEW or KRZTSOVEW
- Attribute group name: RDB TablespaceNormal Usage
  - Table name: KRZTSNLUE
  - Warehouse table name: KRZ_RDB_TABLESPACENORMAL_USAGE or KRZTSNLUE
- Attribute group name: RDB TablespaceTemp Usage
  - Table name: KRZTSTPUE
  - Warehouse table name: KRZ_RDB_TABLESPACETEMP_USAGE or KRZTSTPUE
- Attribute group name: RDB TempFile Overview
  - Table name: KRZTPFOVEW
  - Warehouse table name: KRZ_RDB_TEMPFILE_OVERVIEW or KRZTPFOVEW
- Attribute group name: RDB Top SQL
  - Table name: KRZTOPSQL
  - Warehouse table name: KRZ_RDB_TOP_SQL or KRZTOPSQL
- Attribute group name: RDB TSFile Metric
  - Table name: KRZTSFMTC

  - Warehouse table name: KRZ_RDB_TSFILE_METRIC or KRZTSFMTC
- Attribute group name: RDB Undo Statistics
  - Table name: KRZRDBUTS
  - Warehouse table name: KRZ_RDB_UNDO_STATISTICS or KRZRDBUTS
- Attribute group name: Take Action Status
  - Table name: KRZTACTST
  - Warehouse table name: KRZ_TAKE_ACTION_STATUS or KRZTACTST
- Attribute group name: Thread Pool Status
  - Table name: KRZTHPLST
  - Warehouse table name: KRZ_THREAD_POOL_STATUS or KRZTHPLST

Attributes in each attribute group

Attributes in each Oracle Database Extended agent attribute group collect data that the agent uses for monitoring.

The descriptions of the attribute groups contain the following information:

Historical group
Whether the attribute group is a historical type that you can roll off to a data warehouse.

Attribute descriptions
Description, type, and warehouse name (if applicable) for each attribute in the attribute group.

Some attributes are designated as key attributes. A *key attribute* is an attribute that is used in warehouse aggregation to identify rows of data that represent the same object.

Agent Event attribute group

The Agent Event attribute group provides information about the agent events including event level, category, error code, and error message.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Agent Event attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Event Level attribute

Description
The level of the event.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Error (1)
- Warning (2)
- Info (3)
- Misc (4)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
EVENT_LEVEL or LEVEL

Category attribute

Description
The category of the event.

Type String

Warehouse name
CATEGORY or CAT

Instance Name attribute: This attribute is a key attribute.

Description
The name of the agent instance.

Type String

Warehouse name
INSTANCE_NAME or INSTNAME

Error Code attribute: This attribute is a key attribute.

Description
The error code.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ERROR_CODE or ERRCODE

Error Message attribute

Description
The error message that is typically returned from Oracle.

Type String

Warehouse name
ERROR_MESSAGE or ERRMSG

Subcategory attribute

Description
The subcategory of the event.

Type String

Warehouse name
SUBCATEGORY or SUBCAT

Suggestion attribute

Description
The suggestion for the event.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Make the DB connection name shorter. (Make the DB connection name shorter.)
- Make sure that the Oracle Home Directory or Oracle Instant Client Installation Directory is configured correctly. (Make sure that the Oracle Home Directory or Oracle Instant Client Installation Directory is configured correctly.)
- Set the KRZ CHECK PRIVILEGE EVENT COUNT environment variable, which must be no less than 1, to define how many pieces of Check Privilege Event will be posted. (Set the KRZ_CHECK_PRIVILEGE_EVENT_COUNT environment variable, which must be no less than 1, to define how many pieces of Check Privilege Event will be posted.)
- Make sure that the Oracle listener is started. (Make sure that the Oracle listener is started.)
- Make sure that the connection string is correct and the Oracle Database is started. (Make sure that the connection string is correct and the Oracle Database is started.)
- Make sure that the tables or views exist. Contact the DBA, and run the krzgrant.sql to grant the user select privilege on the tables or views. (Make sure that the tables or views exist; Contact DBA and run the krzgrant.sql to grant the user select privilege on the tables or views.)
- Make sure that the user name and the password are correct. (Make sure that the username and the password are correct.)
- Contact the DBA, and run the krzgrant.sql to grant enough privileges to the user. (Contact DBA and run the krzgrant.sql to grant enough privilege to the user.)
- The role of the user for this connection might not be correct. (The role of the user for this connection might not be correct.)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SUGGESTION or SUGTN

Agent Listener attribute group

The Agent Listener attribute group provides information about the dynamic listener for each system, such as the name of the listener, protocol name, address and status of the listener, and return code and error messages of the ping command.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Agent Listener attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Listener File Location attribute: This attribute is a key attribute.

Description
The file path of the listener.ora file on the system where the monitored database is located.

Type String

Warehouse name
LISTENER_FILE_NAME or LSNRFILE

Listener Name attribute: This attribute is a key attribute.

Description
The listener name that is defined in the tnsnames.ora file.

Type String

Warehouse name
LISTENER_NAME or LSNRNAME

Protocol Name attribute: This attribute is a key attribute.

Description
The protocol name that is defined in the ADDRESS element. The ADDRESS element is used in an ADDRESS_LIST or DESCRIPTION parameter.

Type String

Warehouse name
PROTOCOL_NAME or PROTOCOL

Listener Address attribute: This attribute is a key attribute.

Description
The protocol address of the listener.

Type String

Warehouse name
ADDRESS

Connection Status attribute

Description
The status of this database connection.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Waiting to check (0)
- Active (1)
- Inactive (2)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS

Connection Error Code attribute

Description
The return code for the connection test.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CONNECTION_ERROR_CODE or CONNERROR

Connection Error Message attribute

Description
The error message for the connection test.

Type String

Warehouse name
CONNECTION_ERROR_MESSAGE or CONNERRMSG

Ping Test Time attribute

Description
The date and time of the last ping test.

Type Timestamp

Warehouse name
PING_TEST_TIME or TESTTIME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the system on which the listener is running.

Type String

Warehouse name
SERVER_NAME or HOSTNAME

Listener Port attribute

Description
The port for the listener, which is valid for SDP, TCP and TCPS.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LISTENER_PORT or PORT

Service Key attribute

Description
The unique name for the service, which is valid for IPC protocol.

Type String

Warehouse name
SERVICE_KEY or SERVICEKEY

Pipe Name attribute

Description
The name for the pipe, which is valid for named pipe protocol.

Type String

Warehouse name
PIPE_NAME or PIPENAME

Agent Remote Connection attribute group

The Agent Remote Connection attribute group provides information about remote database connections, such as net service name, connection string, status of a connection, and return code and error message for a connection test.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Agent Remote Connection attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

TNS File Location attribute: This attribute is a key attribute.

Description
The file path of the tnsnames.ora file.

Type String

Warehouse name
TNS_FILE_NAME or TNSFILENAM

Net Service Name attribute: This attribute is a key attribute.

Description
The net service name that is defined in the tnsnames.ora file.

Type String

Warehouse name
NET_SERVICE_NAME or NETSEVNAME

Connect Descriptor attribute

Description
The connect descriptor contains the location of the listener through a protocol address, and the service name of the database to connect to.

Type String

Warehouse name
CONNECT_DESCRIPTOR or CONNDESC

Connection Status attribute

Description
The result of the database connection test.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Waiting to check (0)
- Active (1)
- Inactive (2)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS

Connection Error Code attribute

Description
The return code of the connection test.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CONNECTION_ERROR_CODE or CONNERROR

Connection Error Message attribute

Description
The error message of the connection test.

Type String

Warehouse name
CONNECTION_ERROR_MESSAGE or CONNERRMSG

Connection Test Time attribute

Description
The date and time of the last connection test.

Type Timestamp

Warehouse name
CONNECTION_TEST_TIME or TESTTIME

ASM Alert Log Details attribute group

The ASM Alert Log Details attribute group provides information about characteristics of the messages in the alert log.

Historical group
This attribute group is not eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the ASM Alert Log Details attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Severity Level attribute

Description
The severity level of the message.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Error (1)
- Warning (2)
- Info (3)
- Misc (4)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Database Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Message Category attribute: This attribute is a key attribute.

Description
The category of the message.

Type String

Message Number attribute: This attribute is a key attribute.

Description
The number for the message.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Message ID attribute: This attribute is a key attribute.

Description
The unique identifier of the issued message.

Type String

Message Text attribute

Description
The detailed text of the message.

Type String

Message Timestamp attribute: This attribute is a key attribute.

Description
The date and time when the message occurred.

Type Timestamp

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

ASM Alert Log Summary attribute group

The ASM Alert Log Summary attribute group provides aggregate alert log statistics for errors and warnings in the alert log.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the ASM Alert Log Summary attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Database Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or INSTNAME

Alert Log Path attribute: This attribute is a key attribute.

Description
The full path of the alert log for the instance.

Type String

Warehouse name
ALERT_LOG_PATH or LOGPATH

Alert Log Readable attribute

Description
Indicates whether the alert log file is readable.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (Yes)
- No (No)
- Unknown (Unknown)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ALERT_LOG_READABLE or LOGREAD

Total Errors Since Startup attribute

Description
The total number of errors that were reported since the startup of the agent.

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_ERRORS_SINCE_STARTUP or TOTERR

Total Warnings Since Startup attribute

Description
The total number of warnings that are reported since the startup of the agent.

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_WARNINGS_SINCE_STARTUP or TOTWARN

Timestamp Last Search attribute

Description
The date and time when the last search operation was performed.

Type Timestamp

Warehouse name
LAST_SEARCH_TIMESTAMP or LSTTIME

Total Errors For Interval attribute

Description
The total number of errors that were reported during the last interval.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_ERRORS_FOR_INTERVAL or LSTERR

Total Warnings For Interval attribute

Description
The total number of warnings that were reported during the last interval.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_WARNINGS_FOR_INTERVAL or LSTWARN

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

ASM BGProcess Stats attribute group

This attribute group provides statistics for background processes running in the Oracle ASM (Automatic Storage Manager).

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the ASM BGProcess Stats attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Process Name attribute: This attribute is a key attribute.

Description
The name of the background process.

Type String

Warehouse name
PROCESS_NAME or PNAME

Process Count attribute

Description
The count of running background processes.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PROCESS_COUNT or PCOUNT

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INST_ID

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

ASM Client attribute group

The ASM Client attribute group provides information about ASM client characteristics, including one row for each open ASM disk group.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the ASM Client attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Group Number attribute: This attribute is a key attribute.

Description
The number of disk groups that are being used by the client database instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GROUP_NUMBER or GRPNUM

Instance Name attribute: This attribute is a key attribute.

Description
The identifier for the database instance client.

Type String

Warehouse name
INSTANCE_NAME or INTNAME

Database Name attribute: This attribute is a key attribute.

Description
The unique database name of the database client instance.

Type String

Warehouse name
DATABASE_NAME or DBNAME

Status attribute

Description
The status of the client connection.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- CONNECTED (CONNECTED)
- DISCONNECTED (DISCONNECTED)
- BROKEN (BROKEN)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS

Software Version attribute

Description
The software version number for the database, or the software version number for the ASM instance for the selected disk group connection. This attribute is available in Oracle 10.2 or later versions.

Type String

Warehouse name
SOFTWARE_VERSION or SWVER

Compatibility Version attribute

Description
The compatibility setting of the database, or the compatibility setting of the Automatic Storage Management instance for the selected disk group connection. This attribute is available in Oracle 10.2 or later versions.

Type String

Warehouse name
COMPATIBILITY_VERSION or COMPVER

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
ASM_INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
ASM_SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
ASM_DATABASE_NAME or DBUNIQNAME

ASM Database Topology attribute group

The Database Topology attribute group contains component relationship information in one database.

Historical group
This attribute group is not eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the ASM Database Topology attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Node Information attribute

Description
The information about the node.

Type String

ThruNode Information attribute

Description
The information about the thrunode.

Type String

Node Name attribute

Description
The name of the node.

Type String

Node Type attribute

Description
The type of the node.

Type String

Node State attribute

Description
The state of the node.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ONLINE (ONLINE)
- OFFLINE (OFFLINE)
- CONNECTED (CONNECTED)
- DISCONNECTED (DISCONNECTED)
- BROKEN (BROKEN)
- UNKNOWN (UNKNOWN)
- DISMOUNTED (DISMOUNTED)
- MOUNTED (MOUNTED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

ASM Disk attribute group

The ASM Disk attribute group provides information about the disks that are discovered by the ASM instance, including disks that are not part of any disk group.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the ASM Disk attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Group Number attribute: This attribute is a key attribute.

Description
The number for the disk group that contains the disk.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GROUP_NUMBER or GRPNUM

Disk Number attribute: This attribute is a key attribute.

Description
The number that is assigned to the disk within its disk group.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_NUMBER or DISKNUM

Disk ID attribute

Description
The disk ID that is identified with the instance ID, group number, and disk number.

Type String

Warehouse name
DISK_ID or DISKID

Compound Index attribute: This attribute is a key attribute.

Description
A 32-bit number consisting of a disk group number in the high-order 8 bits and a disk number in the low-order 24 bits.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
COMPOUND_INDEX or COMPINX

Incarnation Number attribute

Description
The incarnation number for the disk.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INCARNATION_NUMBER or INCARTN

Mount Status attribute

Description
The per-instance status of the disk that is relative to group mounts.

Type String

Warehouse name
MOUNT_STATUS or MUTSTUS

Header Status attribute

Description
The per-instance status of the disk as seen by disk discovery.

Type String

Warehouse name
HEADER_STATUS or HEDSTUS

Mode Status attribute

Description
The global status for the kinds of I/O requests that are allowed to reach the disk.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ONLINE (ONLINE)
- OFFLINE (OFFLINE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MODE_STATUS or MODSTUS

Disk State attribute

Description
The global state of the disk with respect to the disk group.

Type String

Warehouse name
DISK_STATE or STATE

Redundancy attribute

Description
The hardware redundancy of the disk.

Type String

Warehouse name
REDUNDANCY or REDDCY

Library Name attribute

Description
The name of the library that discovered the disk.

Type String

Warehouse name
LIBRARY_NAME or LIBRY

Total Capacity (MB) attribute

Description
The total capacity (in MB) of the disk.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_CAPACITY_MB or TOTALMB

Unused Capacity (MB) attribute

Description
The unused capacity (in MB) of the disk.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
UNUSED_CAPACITY_MB or FREEMB

Disk Size (MB) attribute

Description
The size (in MB) of the disk that is reported by the host operating system. This attribute is available in Oracle 11.1 or later versions.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_SIZE_MB or OSMB

% Free attribute

Description
The percentage of unused disk capacity.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_PERCENT or FREEPET

Disk Name attribute: This attribute is a key attribute.

Description
The name of the disk.

Type String

Warehouse name
DISK_NAME or NAME

Failure Group attribute

Description
The name of the failure group that contains the disk.

Type String

Warehouse name
FAILURE_GROUP or FAILGRP

Label attribute

Description
The disk label portion of the operating system name for the disk that is returned by disk discovery.

Type String

Warehouse name
LABEL

Path attribute

Description
The path name portion of the operating system name for the disk that is returned by disk discovery.

Type String

Warehouse name
PATH

UDID attribute

Description
The unique Device ID portion of the operating system name for the disk that is returned by disk discovery.

Type String

Warehouse name
UDID

Product attribute

Description
The name of the manufacturer and the name of the product. All disks with the same product ID have the same performance and reliability characteristics. This attribute is available in Oracle 10.2 or later versions.

Type String

Warehouse name
PRODUCT

Create Date attribute

Description
The date and time when the disk was added to the disk group.

Type Timestamp

Warehouse name
CREATE_DATE or CREDATE

Mount Date attribute

Description
The date and time when the disk was mounted by the first instance.

Type Timestamp

Warehouse name
MOUNT_DATE or MUTDATE

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

ASM DiskGroup attribute group

The ASM Disk Group attribute group provides information about the ASM disk group that is discovered by the ASM instance on the node.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the ASM DiskGroup attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Group Number attribute: This attribute is a key attribute.

Description
The cluster-wide number that is assigned to the disk group.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GROUP_NUMBER or GRPNUM

Group ID attribute

Description
The group ID that includes the instance ID and group number.

Type String

Warehouse name
GROUP_ID or GRPID

Name attribute: This attribute is a key attribute.

Description
The name of the disk group.

Type String

Warehouse name
NAME

Sector Size (Bytes) attribute

Description
The size (in bytes) of the physical block.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SECTOR_SIZE_BYTES or SECSIZE

Block Size (Bytes) attribute

Description
The block size (in bytes) of the ASM metadata.

Type Integer (64-bit numeric property) with enumerated values. The strings are

displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCK_SIZE_BYTES or BLKSIZE

Allocation Unit Size (Bytes) attribute

Description
The size (in bytes) of the allocation unit.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ALLOCATION_UNIT_SIZE_BYTES or ALUSIZE

State attribute

Description
The state of the disk group that is relative to the instance.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- CONNECTED (CONNECTED)
- BROKEN (BROKEN)
- UNKNOWN (UNKNOWN)
- DISMOUNTED (DISMOUNTED)
- MOUNTED (MOUNTED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATE

Type attribute

Description
The redundancy type of the disk group.

Type String

Warehouse name
TYPE

Total Capacity (MB) attribute

Description
The total capacity (in MB) of the disk group.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_CAPACITY_MB or TOTALMB

Unused Capacity (MB) attribute

Description
The unused capacity (in MB) of the disk group.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_CAPACITY_MB or FREEMB

% Free attribute

Description
The percentage of unused capacity of the disk group.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_PERCENT or FREEPET

Required Capacity (MB) attribute

Description
The amount of space (in MB) that is required to be available in a specific disk group to restore redundancy after disk failures. The amount of space that is displayed in this column takes mirroring effects into account.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REQUIRED_CAPACITY_MB or REQMFMB

Usable Capacity (MB) attribute

Description
The amount of free space (in MB) that can be used safely when taking mirroring into account, and that can restore redundancy after disk failures.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USABLE_CAPACITY_MB or USFMB

% Usable attribute

Description
The percentage of free space that can be used safely when taking mirroring into account, and that can restore redundancy after disk failures.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USABLE_PERCENT or USEPET

Offline Disk Number attribute

Description
The number of disks in the disk group that are currently offline. This attribute is available in Oracle 10.2 or later versions.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OFFLINE_DISK_NUMBER or OFLEDK

Unbalanced attribute

Description
Indicates whether the disk group requires rebalancing. For example, if the instance stops while a rebalancing operation is pending, the attribute value is Y. This attribute is available in Oracle 10.2.

Type String

Warehouse name
UNBALANCED or UNBALED

Compatibility attribute

Description
The minimum software version that is required for an ASM instance to mount this disk group. This attribute is available in Oracle 10.2 or later versions.

Type String

Warehouse name
COMPATIBILITY or COMPATY

Database Compatibility attribute

Description
The minimum software version that is required for a database instance to use files in this disk group. This attribute is available in Oracle 10.2 or later versions.

Type String

Warehouse name
DATABASE_COMPATIBILITY or DBCOMTY

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

ASM DiskGroupIOSTAT attribute group

The ASM Disk Group I/O Statistics attribute group provides I/O statistics for ASM disk groups.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the ASM DiskGroupIOSTAT attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Group Number attribute: This attribute is a key attribute.

Description
The number for the disk group that contains the disk.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GROUP_NUMBER or GRPNUM

Group ID attribute

Description
The group ID that includes the instance ID and group number.

Type String

Warehouse name
GROUP_ID or GRPID

Group Name attribute: This attribute is a key attribute.

Description
The name of the disk group.

Type String

Warehouse name
GROUP_NAME or GRPNAME

Read Request attribute

Description
The total number of I/O read requests for the disk group.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
READ_REQUEST or READS

Write Request attribute

Description
The total number of I/O write requests for the disk group.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WRITE_REQUEST or WRITES

Read Error attribute

Description
The total number of failed I/O read requests for the disk group.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
READ_ERROR or READERR

Write Error attribute

Description
The total number of failed I/O write requests for the disk group.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WRITE_ERROR or WRITERR

Read Time (ms) attribute

Description
The total I/O time of read requests for the disk group if the TIMED_STATISTICS initialization parameter is set to TRUE; the value is 0 if the TIMED_STATISTICS parameter is set to FALSE.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
READ_TIME_MS or READTME

Write Time (ms) attribute

Description
The total I/O time of write requests for the disk group if the TIMED_STATISTICS initialization parameter is set to TRUE; the value is 0 if the TIMED_STATISTICS parameter is set to FALSE.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WRITE_TIME_MS or WRITIME

Total Read (Bytes) attribute

Description
The total number of bytes that are read from the disk group.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_READ_BYTES or BYTREAD

Total Read (KB) attribute

Description
The total number of bytes (in KB) that are read from the disk group.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_READ_KB or BYTRDKB

Total Read (MB) attribute

Description
The total number of bytes (in MB) that are read from the disk group.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_READ_MB or BYTRDMB

Total Written (Bytes) attribute

Description
The total number of bytes that are written to the disk group.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_WRITTEN_BYTES or BYTWRIT

Total Written (KB) attribute

Description
The total number of bytes (in KB) that are written to the disk group.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_WRITTEN_KB or BYTWRKB

Total Written (MB) attribute

Description
The total number of bytes (in MB) that are written to the disk group.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_WRITTEN_MB or BYTWRMB

Response Time (ms) attribute

Description
The average response time (in milliseconds) of I/O read and write operations.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESPONSE_TIME_MS or RESTIME

Average Read Time (ms) attribute

Description
The average read time (in milliseconds).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_READ_TIME_MS or AVGREDT

Average Write Time (ms) attribute

Description
The average write time (in milliseconds).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_WRITE_TIME_MS or AVGWRET

Disk Read (Bytes/ms) attribute

Description
The average number of bytes that are read from the disk group per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_READ_BYTES_MS or AVGDRBS

Disk Read (KB/ms) attribute

Description
The average number of bytes (in KB) that are read from the disk group per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_READ_KB_MS or AVGDRBK

Disk Read (MB/ms) attribute

Description
The average number of bytes (in MB) that are read from the disk group per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_READ_MB_MS or AVGDRBM

Disk Written (Bytes/ms) attribute

Description
The average number of bytes that are written to the disk group per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_WRITTEN_BYTES_MS or AVGDWBS

Disk Written (KB/ms) attribute

Description
The average number of bytes (in KB) that are written to the disk group per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_WRITTEN_KB_MS or AVGDWBK

Disk Written (MB/ms) attribute

Description
The average number of bytes (in MB) that are written to the disk group per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_WRITTEN_MB_MS or AVGDWBM

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

ASM DiskIOSTAT attribute group

The ASM Disk I/O Statistics attribute group provides I/O statistics for ASM disks.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the ASM DiskIOSTAT attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Group Number attribute: This attribute is a key attribute.

Description
The number of disk groups that contain the disk.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GROUP_NUMBER or GRPNUM

Disk Number attribute: This attribute is a key attribute.

Description
The number that is assigned to the disk within the disk group.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_NUMBER or DISKNUM

Disk ID attribute

Description
The disk ID that is identified with the instance ID, group number, and disk number.

Type String

Warehouse name
DISK_ID or DISKID

Read Request attribute

Description
The total number of I/O read requests for the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
READ_REQUEST or READS

Write Request attribute

Description
The total number of I/O write requests for the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WRITE_REQUEST or WRITES

Read Error attribute

Description
The total number of failed I/O read requests for the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
READ_ERROR or READERR

Write Error attribute

Description
The total number of failed I/O write requests for the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WRITE_ERROR or WRITERR

Read Time (ms) attribute

Description
The total I/O time of read requests for the disk if the TIMED_STATISTICS initialization parameter is set to TRUE; the value is 0 if the TIMED_STATISTICS parameter is set to FALSE.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
READ_TIME_MS or READTME

Write Time (ms) attribute

Description
The total I/O time of write requests for the disk if the TIMED_STATISTICS initialization parameter is set to TRUE; the value is 0 if the TIMED_STATISTICS parameter is set to FALSE.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WRITE_TIME_MS or WRITIME

Total Read (Bytes) attribute

Description
The total number of bytes that are read from the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_READ_BYTES or BYTREAD

Total Read (KB) attribute

Description
The total number of bytes (in KB) that are read from the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_READ_KB or BYTRDKB

Total Read (MB) attribute

Description
The total number of bytes (in MB) that are read from the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_READ_MB or BYTRDMB

Total Written (Bytes) attribute

Description
The total number of bytes that are written to the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_WRITTEN_BYTES or BYTWRIT

Total Written (KB) attribute

Description
The total number of bytes (in KB) that are written to the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_WRITTEN_KB or BYTWRKB

Total Written (MB) attribute

Description
The total number of bytes (in MB) that are written to the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_WRITTEN_MB or BYTWRMB

Response Time (ms) attribute

Description
The average response time (in milliseconds) of I/O read and write operations.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESPONSE_TIME_MS or REPTIME

Average Read Time (ms) attribute

Description
The average read time (in milliseconds).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_READ_TIME_MS or AVGREDT

Average Write Time (ms) attribute

Description
The average write time (in milliseconds).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_WRITE_TIME_MS or AVGWRET

Disk Read (Bytes/ms) attribute

Description
The average number of bytes that are read from the disk per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_READ_BYTES_MS or AVGDRBS

Disk Read (KB/ms) attribute

Description
The average number of bytes (in KB) that are read from the disk per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_READ_KB_MS or AVGDRBK

Disk Read (MB/ms) attribute

Description
The average number of bytes (in MB) that are read from the disk per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_READ_MB_MS or AVGDRBM

Disk Written (Bytes/ms) attribute

Description
The average number of bytes that are written to the disk per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_WRITTEN_BYTES_MS or AVGDWBS

Disk Written (KB/ms) attribute

Description
The average number of bytes (in KB) that are written to the disk per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_WRITTEN_KB_MS or AVGDWBK

Disk Written (MB/ms) attribute

Description
The average number of bytes (in MB) that are written to the disk per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_WRITTEN_MB_MS or AVGDWBM

Disk Name attribute: This attribute is a key attribute.

Description
The name of the disk.

Type String

Warehouse name
DISK_NAME or NAME

Failure Group attribute

Description
The name of the failure group to which the disk belongs.

Type String

Warehouse name
FAILURE_GROUP or FAILGRP

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

ASM FileInfo attribute group

The ASM FileInfo attribute group provides information about every ASM file in every disk group that is mounted by the ASM instance.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the ASM FileInfo attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Full Alias Path attribute: This attribute is a key attribute.

Description
The full alias path.

Type String

Warehouse name
FULL_ALIAS_PATH or FULLPATH

Is System Created attribute

Description
Indicates that the alias is system-created (Y) or user-created (N).

Type String

Warehouse name
IS_SYSTEM_CREATED or ISSYS

Is Directory attribute

Description
Indicates that the alias is for a directory (Y) or for an ASM file (N).

Type String

Warehouse name
IS_DIRECTORY or ISDIR

File Type attribute

Description
The type of the file.

Type String

Warehouse name
FILE_TYPE or TYPE

Creation Date attribute

Description
The date when the file was created.

Type Timestamp

Warehouse name
CREATION_DATE or CREDATE

Modification Date attribute

Description
The date when the file was last opened or closed for writing. The value is rounded to the nearest hour.

Type Timestamp

Warehouse name
MODIFICATION_DATE or MODDATE

File Redundancy attribute

Description
The redundancy of the file.

Type String

Warehouse name
FILE_REDUNDANCY or REDDNCY

File Striped attribute

Description
Indicates how the file is stripped.

Type String

Warehouse name
FILE_STRIPED or STRIPED

Block Size (bytes) attribute

Description
The block size (in bytes) of the file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCK_SIZE_BYTES or BLKSIZE

Block Number attribute

Description
The number of blocks in the file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCK_NUMBER or BLOCKS

File Size (bytes) attribute

Description
The size (in bytes) of the file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FILE_SIZE_BYTES or BYTES

File Size (KB) attribute

Description
The size (in KB) of the file.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FILE_SIZE_KB or BYTEKB

File Size (MB) attribute

Description
The size (in MB) of the file.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FILE_SIZE_MB or BYTEMB

Space Allocated (bytes) attribute

Description
The amount of space (in bytes) that is allocated for the file.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SPACE_ALLOCATED_BYTES or SPACE

Space Allocated (KB) attribute

Description
The amount of space (in KB) that is allocated for the file.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SPACE_ALLOCATED_KB or SPACEKB

Space Allocated (MB) attribute

Description
The amount of space (in MB) that is allocated for the file.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SPACE_ALLOCATED_MB or SPACEMB

Redundancy Lowered attribute

Description
Indicates whether a file has lower redundancy than expected. The valid values are Y, N, and U. The U value means unknown. This attribute is available in Oracle 10.2 or later versions.

Type String

Warehouse name
REDUNDANCY_LOWERED or REDLOWD

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

ASM Instance attribute group

The ASM Instance attribute group provides information about the state of the Automatic Storage Management instance.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the ASM Instance attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Instance Number attribute: This attribute is a key attribute.

Description
The number for the instance that is used for instance registration.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_NUMBER or INSTNUM

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or INSTNAME

Hostname attribute

Description
The name of the host workstation.

Type String

Warehouse name
HOSTNAME

Database Version attribute

Description
The version of the monitored database.

Type String

Warehouse name
VERSION

Start Time attribute

Description
The time when the instance was started.

Type Timestamp

Warehouse name
START_TIME or STARTIME

Instance Status attribute

Description
The status of the instance.

Type String

Warehouse name
STATUS

Parallel attribute

Description
Indicates whether the instance is mounted in cluster database mode. The valid values are YES and NO.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PARALLEL

Redo Thread Number attribute

Description
The number of redo threads that are opened by the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REDO_THREAD_NUMBER or THREAD

Archiver attribute

Description
The status of archiving. The valid values are STOPPED, STARTED, and FAILED. The FAILED status means that the archiver failed to archive a log the last time, but will try again within 5 minutes.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- STOPPED (STOPPED)
- STARTED (STARTED)
- FAILED (FAILED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVER

Logins attribute

Description
Indicates whether the instance is in the unrestricted mode, allowing logins by all users.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ALLOWED (ALLOWED)
- RESTRICTED (RESTRICTED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOGINS

Shutdown Pending attribute

Description
Indicates whether a shutdown is pending; the valid values are YES and NO.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHUTDOWN_PENDING or SHUTPEND

Database Status attribute

Description
The status of the database.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ACTIVE (ACTIVE)
- SUSPENDED (SUSPENDED)
- INSTANCE RECOVERY (INSTANCE RECOVERY)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DATABASE_STATUS or DBSTATUS

Instance Role attribute

Description
Indicates that the instance is an active instance, an inactive secondary instance, or an unknown instance.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- PRIMARY INSTANCE (PRIMARY_INSTANCE)
- SECONDARY INSTANCE (SECONDARY_INSTANCE)
- UNKNOWN (UNKNOWN)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ROLE or INSTROLE

Active State attribute

Description
The quiesce state of the instance; the valid values are NORMAL, QUIESCING, and QUIESCED.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NORMAL (NORMAL)
- QUIESCING (QUIESCING)
- QUIESCED (QUIESCED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ACTIVE_STATE or ACTSTATE

Blocked attribute

Description
Indicates whether all services are blocked. This attribute is available in Oracle 11.1 or later versions.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCKED

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

ASM Operation attribute group

The ASM Operation attribute group provides information about every active ASM long-running operation that is executing in the ASM instance.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the ASM Operation attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Group Number attribute: This attribute is a key attribute.

Description
The number of the disk group.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GROUP_NUMBER or GRPNUM

Type attribute: This attribute is a key attribute.

Description
The type of the operation.

Type String

Warehouse name
TYPE or OPERAN

State attribute

Description
The state of the operation.

Type String

Warehouse name
STATE

Power® attribute

Description
The power that is requested for the operation as specified by the ASM_POWER_LIMIT initialization parameter or command syntax.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
POWER®

Actual attribute

Description
The power that is allocated to the operation.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ACTUAL

So Far attribute

Description
The number of allocation units that were moved so far by the operation.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SO_FAR or SOFAR

Estimated Work attribute

Description
The estimated number of allocation units that have to be moved by the operation.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ESTIMATED_WORK or ESTWORK

Estimated Rate attribute

Description
The estimated number of allocation units that are being moved per minute by the operation.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ESTIMATED_RATE or ESTRATE

Estimated Minutes attribute

Description
The estimated amount of time (in minutes) that the rest of the operation is expected to take.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ESTIMATED_MINUTES or ESTMIN

Error Code attribute

Description
The Oracle external error code. The value is NULL if there is no error. This attribute is available in Oracle 11.0 or later versions.

Type String

Warehouse name
ERROR_CODE or ERRCODE

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

ASM Parameter attribute group

The ASM Parameter attribute group provides information about the initialization parameters that are currently in effect for the session.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the ASM Parameter attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Parameter Number attribute: This attribute is a key attribute.

Description
The number for the parameter.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PARAMETER_NUMBER or NUM

Parameter Name attribute: This attribute is a key attribute.

Description
The name of the parameter.

Type String

Warehouse name
PARAMETER_NAME or NAME

Parameter Type attribute: This attribute is a key attribute.

Description
The type of the parameter.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Boolean (1)
- String (2)
- Integer (3)
- Parameter file (4)
- Reserved (5)
- Big integer (6)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PARAMETER_TYPE or TYPE

Value attribute

Description
If the value is modified within the session, this parameter value is for the session; otherwise, this value is instance-wide.

Type String

Warehouse name
VALUE

Display Value attribute

Description
The parameter value in a rounded format. For example, if the VALUE column shows the value 262144 for a big integer parameter, the DISPLAY_VALUE column shows the value 256K.

Type String

Warehouse name
DISPLAY_VALUE or DISVALUE

Is Default attribute

Description
Indicates whether the parameter is set to the default value (TRUE), or the parameter value is specified in the parameter file (FALSE).

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- TRUE (TRUE)
- FALSE (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_DEFAULT or ISDEFLT

Is Session Modifiable attribute

Description
Indicates whether the parameter can be changed by the ALTER SESSION command.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- TRUE (TRUE)
- FALSE (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_SESSION_MODIFIABLE or ISEMOLE

Is System Modifiable attribute

Description
Indicates whether the parameter can be changed by the ALTER SYSTEM command and when the change takes effect.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- IMMEDIATE (IMMEDIATE)
- DEFERRED (DEFERRED)
- FALSE (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_SYSTEM_MODIFIABLE or ISYMOLE

Is Instance Modifiable attribute

Description
Indicates whether the value of the parameter can be different for every instance (TRUE) or whether the parameter must have the same value for all Real Application Clusters instances (FALSE).

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- TRUE (TRUE)
- FALSE (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_INSTANCE_MODIFIABLE or ISIMOLE

Is Modified attribute

Description
Indicates whether the parameter was modified after instance startup.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- MODIFIED (MODIFIED)
- SYSTEM MOD (SYSTEM_MOD)
- FALSE (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_MODIFIED or ISMODID

Is Adjusted attribute

Description
Indicates whether Oracle adjusted the input value to a more suitable value. For example, if the parameter value is a prime number, but the user included a non-prime number, the Oracle program adjusts the value to the next prime number.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- TRUE (TRUE)
- FALSE (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_ADJUSTED or ISAJTED

Is Deprecated attribute

Description
Indicates whether the parameter was deprecated.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- TRUE (TRUE)
- FALSE (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_DEPRECATED or ISDETED

Description attribute

Description
The description of the parameter.

Type String

Warehouse name
DESCRIPTION or DESCRIP

Update Comments attribute

Description
The comments that are associated with the most recent update.

Type String

Warehouse name
UPDATE_COMMENTS or UPDCOT

Hash attribute

Description
The hash value for the parameter name.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
HASH

Is Basic attribute

Description
Indicates whether the parameter is a basic parameter. This attribute is available in Oracle 11.1 or later versions.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- TRUE (TRUE)
- FALSE (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_BASIC or ISBASIC

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

ASM Performance Object Status attribute group

The Performance Object Status attribute group contains information that reflects the status of other attribute groups so you can see the status of all of the performance objects that make up this application all at once. Each of these other performance attribute groups is represented by a row in this table (or other type of view). The status for an attribute group reflects the result of the last attempt to collect data for that attribute group, which allows you to see whether the agent is performing correctly. Unlike other attribute groups, the Performance Object Status attribute group does not reflect the state of the monitored application. This attribute group is most often used to determine why data is not available for one of the performance attribute groups.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the ASM Performance Object Status attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Query Name attribute: This attribute is a key attribute.

Description
The name of the attribute group.

Type String

Warehouse name
QUERY_NAME or ATTRGRP

Object Name attribute

Description
The name of the performance object.

Type String

Warehouse name
OBJECT_NAME or OBJNAME

Object Type attribute

Description
The type of the performance object.

Type Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- WMI (0)
- PERFMON (1)
- WMI ASSOCIATION GROUP (2)
- JMX (3)
- SNMP (4)
- SHELL COMMAND (5)
- JOINED GROUPS (6)
- CIMOM (7)
- CUSTOM (8)
- ROLLUP DATA (9)
- WMI REMOTE DATA (10)
- LOG FILE (11)
- JDBC (12)
- CONFIG DISCOVERY (13)
- NT EVENT LOG (14)
- FILTER (15)
- SNMP EVENT (16)
- PING (17)
- DIRECTOR DATA (18)
- DIRECTOR EVENT (19)
- SSH REMOTE SHELL COMMAND (20)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OBJECT_TYPE or OBJTYPE

Object Status attribute

Description
The status of the performance object.

Type Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ACTIVE (0)
- INACTIVE (1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OBJECT_STATUS or OBJSTTS

Error Code attribute

Description
The error code associated with the query.

Type Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO ERROR (0)
- GENERAL ERROR (1)
- OBJECT NOT FOUND (2)
- COUNTER NOT FOUND (3)
- NAMESPACE ERROR (4)
- OBJECT CURRENTLY UNAVAILABLE (5)
- COM LIBRARY INIT FAILURE (6)
- SECURITY INIT FAILURE (7)
- PROXY SECURITY FAILURE (9)
- NO INSTANCES RETURNED (10)
- ASSOCIATOR QUERY FAILED (11)
- REFERENCE QUERY FAILED (12)
- NO RESPONSE RECEIVED (13)
- CANNOT FIND JOINED QUERY (14)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 1 RESULTS (15)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 2 RESULTS (16)
- QUERY 1 NOT A SINGLETON (17)
- QUERY 2 NOT A SINGLETON (18)
- NO INSTANCES RETURNED IN QUERY 1 (19)
- NO INSTANCES RETURNED IN QUERY 2 (20)
- CANNOT FIND ROLLUP QUERY (21)
- CANNOT FIND ROLLUP ATTRIBUTE (22)
- FILE OFFLINE (23)
- NO HOSTNAME (24)
- MISSING LIBRARY (25)
- ATTRIBUTE COUNT MISMATCH (26)
- ATTRIBUTE NAME MISMATCH (27)
- COMMON DATA PROVIDER NOT STARTED (28)
- CALLBACK REGISTRATION ERROR (29)
- MDL LOAD ERROR (30)
- AUTHENTICATION FAILED (31)
- CANNOT RESOLVE HOST NAME (32)
- SUBNODE UNAVAILABLE (33)
- SUBNODE NOT FOUND IN CONFIG (34)
- ATTRIBUTE ERROR (35)
- CLASSPATH ERROR (36)
- CONNECTION FAILURE (37)
- FILTER SYNTAX ERROR (38)
- FILE NAME MISSING (39)
- SQL QUERY ERROR (40)
- SQL FILTER QUERY ERROR (41)
- SQL DB QUERY ERROR (42)

- SQL DB FILTER QUERY ERROR (43)
- PORT OPEN FAILED (44)
- ACCESS DENIED (45)
- TIMEOUT (46)
- NOT IMPLEMENTED (47)
- REQUESTED A BAD VALUE (48)
- RESPONSE TOO BIG (49)
- GENERAL RESPONSE ERROR (50)
- SCRIPT NONZERO RETURN (51)
- SCRIPT NOT FOUND (52)
- SCRIPT LAUNCH ERROR (53)
- CONF FILE DOES NOT EXIST (54)
- CONF FILE ACCESS DENIED (55)
- INVALID CONF FILE (56)
- EIF INITIALIZATION FAILED (57)
- CANNOT OPEN FORMAT FILE (58)
- FORMAT FILE SYNTAX ERROR (59)
- REMOTE HOST UNAVAILABLE (60)
- EVENT LOG DOES NOT EXIST (61)
- PING FILE DOES NOT EXIST (62)
- NO PING DEVICE FILES (63)
- PING DEVICE LIST FILE MISSING (64)
- SNMP MISSING PASSWORD (65)
- DISABLED (66)
- URLS FILE NOT FOUND (67)
- XML PARSE ERROR (68)
- NOT INITIALIZED (69)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ERROR_CODE or ERRCODE

ASM Process attribute group

The ASM Process attribute group provides information about the processes that are currently active.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the ASM Process attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Address attribute: This attribute is a key attribute.

Description
The address of the process state object.

Type String

Warehouse name
ADDRESS or ADDR

PID attribute: This attribute is a key attribute.

Description
The identifier for the Oracle process.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PROCESS_ID or PID

SPID attribute: This attribute is a key attribute.

Description
The identifier for the operating system process.

Type String

Warehouse name
SYSTEM_PROCESS_ID or SPID

Username attribute: This attribute is a key attribute.

Description
The user name for the operating system process. Any two-task user coming across the network has "-T" appended to the user name.

Type String

Warehouse name
USERNAME or USRNAME

Serial Number attribute: This attribute is a key attribute.

Description
The serial number for the process.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SERIAL_NUMBER or SERIANO

Terminal attribute: This attribute is a key attribute.

Description
The terminal identifier for the operating system.

Type String

Warehouse name
TERMINAL or TERMINL

Program attribute: This attribute is a key attribute.

Description
The program that is in progress.

Type String

Warehouse name
PROGRAM

Trace ID attribute: This attribute is a key attribute.

Description
The identifier for the trace file.

Type String

Warehouse name
TRACE_ID or TRACEID

Trace File attribute: This attribute is a key attribute.

Description
The trace file name of the process. This attribute is available in Oracle 11.1 or later versions.

Type String

Warehouse name
TRACE_FILE or TRFILE

Background attribute: This attribute is a key attribute.

Description
If the process is a background process, the value is Yes; if the process is a typical one, the value is No.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (Yes)
- No (No)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BACKGROUND or BKGRUND

Latch Wait attribute: This attribute is a key attribute.

Description
The address of the latch for which the process is waiting.

Type String

Warehouse name
LATCH_WAIT or LTWAIT

Latch Spin attribute: This attribute is a key attribute.

Description
The address of the latch on which the process is spinning.

Type String

Warehouse name
LATCH_SPIN or LTSPIN

PGA Memory Used (Bytes) attribute

Description
The amount of Process Global Area (PGA) memory (in bytes) that is currently used by the process.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_MEMORY_USED_BYTES or PGAUMEM

PGA Memory Used (KB) attribute

Description
The amount of PGA memory (in KB) that is currently used by the process.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_MEMORY_USED_KB or PGAUMKB

PGA Memory Used (MB) attribute

Description
The amount of PGA memory (in MB) that is currently used by the process.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_MEMORY_USED_MB or PGAUMMB

PGA Memory Allocated (Bytes) attribute

Description
The amount of PGA memory (in bytes) that is currently allocated by the process, including the free PGA memory that is not released to the operating system by the server process.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_MEMORY_ALLOCATED_BYTES or PGAAMEM

PGA Memory Allocated (KB) attribute

Description
The amount of PGA memory (in KB) that is currently allocated by the process, including the free PGA memory that is not released to the operating system by the server process.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_MEMORY_ALLOCATED_KB or PGAAMKB

PGA Memory Allocated (MB) attribute

Description
The amount of PGA memory (in MB) that is currently allocated by the process, including the free PGA memory that is not released to the operating system by the server process.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_MEMORY_ALLOCATED_MB or PGAAMMB

PGA Memory Free (Bytes) attribute

Description
The amount of allocated PGA memory (in bytes) that can be freed.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_MEMORY_FREE_BYTES or PGAFMEM

PGA Memory Free (KB) attribute

Description
The amount of allocated PGA memory (in KB) that can be freed.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_MEMORY_FREE_KB or PGAFMKB

PGA Memory Free (MB) attribute

Description
The amount of allocated PGA memory (in MB) that can be freed.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_MEMORY_FREE_MB or PGAFMMB

PGA Memory Max (Bytes) attribute

Description
The maximum amount of PGA memory (in bytes) that is ever allocated by the process.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_MEMORY_MAX_BYTES or PGAMMEM

PGA Memory Max (KB) attribute

Description
The maximum amount of PGA memory (in KB) that is ever allocated by the process.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_MEMORY_MAX_KB or PGAMMKB

PGA Memory Max (MB) attribute

Description
The maximum amount of PGA memory (in MB) that is ever allocated by the process.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_MEMORY_MAX_MB or PGAMMMB

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

ASM Template attribute group

The ASM Template attribute group provides statistics for templates that are present in every disk group that is mounted by the ASM instance.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the ASM Template attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Group Number attribute: This attribute is a key attribute.

Description
The number for the disk group that owns the template.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GROUP_NUMBER or GRPNUM

Entry Number attribute: This attribute is a key attribute.

Description
The number for the template.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ENTRY_NUMBER or ENYNUM

Redundancy attribute

Description
The redundancy of the template.

Type String

Warehouse name
REDUNDANCY or REDUNCY

Stripe Type attribute

Description
Indicates how the template is stripped.

Type String

Warehouse name
STRIPE_TYPE or STRIPE

System attribute

Description
Indicates whether the template is a system template.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (Y)
- NO (N)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SYSTEM

Template Name attribute

Description
The name of the template.

Type String

Warehouse name
TEMPLATE_NAME or NAME

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

Database Information attribute group

The Database Information attribute group provides database connection characteristics, including database connection name, database version, database type, database bit version, and database status.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Database Information attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Database Connection Name attribute: This attribute is a key attribute.

Description
The name of the database connection.

Type String

Warehouse name
DATABASE_CONNECTION_NAME or CONFIGINST

Database Name attribute: This attribute is a key attribute.

Description
The name of the monitored database.

Type String

Warehouse name
DATABASE_NAME or NAME

Database Version attribute: This attribute is a key attribute.

Description
The version of the monitored database.

Type String

Warehouse name
DATABASE_VERSION or VERSION

Database Type attribute: This attribute is a key attribute.

Description
The type of the monitored database.

Type String

Warehouse name
DATABASE_TYPE or TYPE

Database Bit Version attribute: This attribute is a key attribute.

Description
Indicates whether the monitored Oracle database is a 32-bit version or a 64-bit version.

Type String

Warehouse name
DATABASE_BIT_VERSION or BITVERSION

Database Status attribute: This attribute is a key attribute.

Description
The status of the monitored database.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Active (Active)
- Inactive (Inactive)
- Unknown (Unknown)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DATABASE_STATUS or STATUS

DataGuard Group attribute

Description
The dataguard group that the current database belongs to.

Type String

Warehouse name
DATAGUARD_GROUP or DGGROUP

Database Role attribute

Description
The role of the database, such as primary, logical standby, physical standby, pr snapshot standby.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Primary (PRIMARY)
- PHYSICAL STANDBY (PHYSICAL STANDBY)
- LOGICAL STANDBY (LOGICAL STANDBY)
- SNAPSHOT STANDBY (SNAPSHOT STANDBY)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DATABASE_ROLE or DBROLE

Instance Name attribute: This attribute is a key attribute.

Description
The name of the current connected instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The current connected host name of the database.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Overview attribute group

The Database Overview attribute group provides information about the characteristics of the monitored databases.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Database Overview attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Database ID attribute: This attribute is a key attribute.

Description
The identifier of the monitored database.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DATABASE_ID or DBID

Database Name attribute

Description
The name of the monitored database.

Type String

Warehouse name
DATABASE_NAME or NAME

Creation Datetime attribute

Description
The time and date when the database was created.

Type Timestamp

Warehouse name
CREATION_DATETIME or CREATED

Resetlogs Change Number attribute

Description
The SCN at the open resetlogs.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESETLOGS_CHANGE_NUMBER or RESETSCN

Resetlogs Time attribute

Description
The timestamp of the open resetlogs.

Type Timestamp

Warehouse name
RESETLOGS_TIME or RESETTIME

Prior Resetlogs Change Number attribute

Description
The SCN at the prior resetlogs.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PRIOR_RESETLOGS_CHANGE_NUMBER or PRISTSCN

Prior Resetlogs Time attribute

Description
The timestamp of the prior resetlogs.

Type Timestamp

Warehouse name
PRIOR_RESETLOGS_TIME or PRISTTIME

Archive Log Mode attribute

Description
The archive log mode; the valid values are NOARCHIVELOG, ARCHIVELOG, and MANUAL.

Type String

Warehouse name
ARCHIVE_LOG_MODE or LOG_MODE

Checkpoint Change Number attribute

Description
The last SCN checkpointed.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CHECKPOINT_CHANGE_NUMBER or CHPCHGNUM

Archive Change Number attribute

Description
The database force archiving SCN. Any redo log with a start SCN below this value is forced to archive out.

Type Integer (64-bit numeric property) with enumerated values. The strings are

displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVE_CHANGE_NUMBER or ARCHGNUM

Controlfile Type attribute

Description
The type of control file.

Type String

Warehouse name
CONTROLFILE_TYPE or CTRLFTYPE

Controlfile Create Time attribute

Description
The date when the control file was created.

Type Timestamp

Warehouse name
CONTROLFILE_CREATE_TIME or CTRLFDATE

Controlfile Sequence Number attribute

Description
The sequence number for the control file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CONTROLFILE_SEQUENCE_NUMBER or CTRLFSEQ

Controlfile Change Number attribute

Description
The last SCN in the backup control file; the value is null if the control file is not a backup control file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CONTROLFILE_CHANGE_NUMBER or CTRLFCNUM

Last Controlfile Time attribute

Description
The last timestamp in the backup control file; the value is null if the control file is not a backup control file.

Type Timestamp

Warehouse name
LAST_CONTROLFILE_TIME or CTRLFLTIME

Open Resetlogs attribute

Description
Indicates whether the next database open operation allows or requires the resetlogs option.

Type String

Warehouse name
OPEN_RESETLOGS or OPENRSTLOG

Version Time attribute

Description
The version time.

Type Timestamp

Warehouse name
VERSION_TIME or VERTIME

Open Mode attribute

Description
The open mode.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- MOUNTED (MOUNTED)
- READ WRITE (READ WRITE)
- READ ONLY (READ ONLY)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OPEN_MODE

Protection Mode attribute

Description
The protection mode that is currently in effect for the database.

Type String

Warehouse name
PROTECTION_MODE or PROCTMODE

Protection Level attribute

Description
The aggregated protection mode that is currently in effect for the database.

Type String

Warehouse name
PROTECTION_LEVEL or PROCTLEVEL

Remote Archive attribute

Description
The value of the REMOTE_ARCHIVE_ENABLE initialization parameter.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ENABLED (ENABLED)
- DISABLED (DISABLED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REMOTE_ARCHIVE or R_ARCHIVE

Activation Number attribute

Description
The number that is assigned to the database instantiation.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ACTIVATION_NUMBER or ACTIVATION

Switchover Number attribute

Description
The number that is assigned to the database switchover.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SWITCHOVER_NUMBER or SWITCHOVER

Database Role attribute

Description
The current role of the monitored database.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Primary (PRIMARY)
- PHYSICAL STANDBY (PHYSICAL STANDBY)
- LOGICAL STANDBY (LOGICAL STANDBY)
- SNAPSHOT STANDBY (SNAPSHOT STANDBY)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DATABASE_ROLE or DB_ROLE

Archivelog Change Number attribute

Description
The highest value of the NEXT_CHANGE# attribute from the V$ARCHIVED_LOG view for an archive log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVELOG_CHANGE_NUMBER or ARLOGCHG

Archivelog Compression attribute

Description
The status of the archive log compression.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ENABLED (ENABLED)
- DISABLED (DISABLED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVELOG_COMPRESSION or ARLOGCOMP

Switchover Status attribute

Description
Indicates whether switchover is allowed.

Type String

Warehouse name
SWITCHOVER_STATUS or SWO_STATUS

Dataguard Broker attribute

Description
Indicates whether the data guard configuration is being managed by the broker.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ENABLED (ENABLED)
- DISABLED (DISABLED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DATAGUARD_BROKER or DG_BROKER

Guard Status attribute

Description
Protects data from being changed.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ALL (ALL)
- STANDBY (STANDBY)
- NONE (NONE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GUARD_STATUS or GUARDSTAT

Supplemental LogData Min attribute

Description
Ensures that LogMiner and any products building on the LogMiner technology have sufficient information to support chained rows and various storage arrangements such as cluster tables.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO (NO)
- IMPLICIT (IMPLICIT)
- YES (YES)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SUPPLEMENTAL_LOG_DATA_MIN or SLOGDMIN

Supplemental LogData PrimaryKey attribute

Description
For all tables with a primary key, indicates whether all columns of the primary key are placed into the redo log whenever an update is performed.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SUPPLEMENTAL_LOG_DATA_PRIMARYKEY or SLOGDPK

Supplemental LogData UniqueKey attribute

Description
For all tables with a unique key, indicates whether all other columns belonging to the unique key are placed into the redo log if any of the unique key columns are modified.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SUPPLEMENTAL_LOG_DATA_UNIQUEKEY or SLOGDUI

Force Logging attribute

Description
Indicates whether the database is in the forced logging mode.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FORCE_LOGGING or FORCE_LOG

Platform ID attribute

Description
The platform identification number for the database.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PLATFORM_ID or PFORMID

Platform Name attribute

Description
The platform name of the database.

Type String

Warehouse name
PLATFORM_NAME or PFORMNAME

Recovery Target Incarnation attribute

Description
The incarnation number where all data files are recovered by the RECOVER DATABASE command.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RECOVERY_TARGET_INCARNATION or RTARGETINC

Last Open Incarnation attribute

Description
The record number for the incarnation that was last opened successfully.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LAST_OPEN_INCARNATION or LASTOPINC

Current SCN attribute

Description
The current System Change Number (SCN).

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CURRENT_SCN or CURRENTSCN

Flashback On attribute

Description
Indicates that flashback is on or off.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)
- RESTORE POINT ONLY (RESTORE POINT ONLY)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FLASHBACK_ON or FLASHBACK

Supplemental LogData ForeignKey attribute

Description
For all tables with a foreign key, indicates whether all other columns belonging to the foreign key are placed into the redo log if any foreign key columns are modified.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SUPPLEMENTAL_LOG_DATA_FOREIGN_KEY or SLOGDFK

Supplemental LogData All attribute

Description
For all columns, indicates whether all the fixed-length maximum size columns of that row are placed into the redo log.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SUPPLEMENTAL_LOG_DATA_ALL or SLOGDALL

Database Unique Name attribute

Description
The unique name of the database.

Type String

Warehouse name
DATABASE_UNIQUE_NAME or UNIQUENAME

Standby Became Primary SCN attribute

Description
The SCN at which a physical standby database became a primary database.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STANDBY_BECAME_PRIMARY_SCN or STNDPRISCN

FastStart Failover Status attribute

Description
The status of a fast-start failover. This attribute is available in Oracle 10.2 or later versions.

Type String

Warehouse name
FS_FAILOVER_STATUS or FSFOSTATUS

FastStart Failover Target attribute

Description
The unique database name of the standby that is the current fast-start failover (FSFO) target standby for the data guard configuration. This attribute is available in Oracle 10.2 or later versions.

Type String

Warehouse name
FS_FAILOVER_TARGET or FSFOCURTAR

FastStart Failover Threshold attribute

Description
The time (in seconds) that the observer attempts to reconnect with a disconnected primary before it attempts a fast-start failover (FSFO) with the target standby. This attribute is available in Oracle 10.2 or later versions.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FS_FAILOVER_THRESHOLD or FSFOTHRESH

FastStart Failover Observer Present attribute

Description
Indicates whether the observer is currently connected to the local database. This attribute is available in Oracle 10.2 or later versions.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FS_FAILOVER_OBSERVER_PRESENT or FSFOOBPRE

FastStart Failover Observer Host attribute

Description
The machine name that is currently hosting the observer process. This attribute is available in Oracle 10.2 or later versions.

Type String

Warehouse name
FS_FAILOVER_OBSERVER_HOST or FSFOOBHOST

ControlFile Converted attribute

Description
Indicates whether the control file was converted. This attribute is available in Oracle 11.0 or later versions.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CONTROL_FILE_CONVERTED or CTRLFCONV

Primary Unique Name attribute

Description
The primary unique name of the database. This attribute is available in Oracle 11.0 or later versions.

Type String

Warehouse name
PRIMARY_UNIQUE_NAME or PRIUNINAME

Supplemental LogData PL attribute

Description
The valid values are YES and NO. This attribute is available in Oracle 11.0 or later versions.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SUPPLEMENTAL_LOG_DATA_PL or SLOGDPL

Min Required Capture Change Number attribute

Description
The minimum value of the REQUIRED_CHECKPOINT_SCN attribute for all local capture processes on the database. This attribute is available in Oracle 11.0 or later versions.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MIN_REQUIRED_CAPTURE_CHANGE_NUMBER or MINREQCHG

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

DG Alert Log Details attribute group

The DG Alert Log Details attribute group provides information about messages in the alert log, including message timestamp, severity level, message category, message number, message ID, and message text.

Historical group
This attribute group is not eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the DG Alert Log Details attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Severity Level attribute

Description
The severity level of the message.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Error (1)
- Warning (2)
- Info (3)
- Misc (4)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Database Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Message Category attribute

Description
The category of the message.

Type String

Message Number attribute

Description
The number for the message.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Message ID attribute: This attribute is a key attribute.

Description
The unique identifier for the message.

Type String

Message Text attribute

Description
The detailed text of the message.

Type String

Message Timestamp attribute: This attribute is a key attribute.

Description
The date and time when the message occurred.

Type Timestamp

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

DG Alert Log Summary attribute group

The DG Alert Log Summary attribute group provides aggregate statistics for errors and warnings in the alert log.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Alert Log Summary attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Database Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or INSTNAME

Alert Log Path attribute

Description
The full path of the alert log file for the instance.

Type String

Warehouse name
ALERT_LOG_PATH or LOGPATH

Alert Log Readable attribute

Description
Indicates whether the alert log file is readable.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (Yes)
- No (No)
- Unknown (Unknown)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ALERT_LOG_READABLE or LOGREAD

Total Errors Since Startup attribute

Description
The total number of errors that were reported since the startup of the agent.

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_ERRORS_SINCE_STARTUP or TOTERR

Total Warnings Since Startup attribute

Description
The total number of warnings that were reported since the startup of the agent.

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_WARNINGS_SINCE_STARTUP or TOTWARN

Timestamp Last Search attribute

Description
The date and time when the last search was performed.

Type Timestamp

Warehouse name
LAST_SEARCH_TIMESTAMP or LSTTIME

Total Errors For Interval attribute

Description
The total number of errors that are reported during the last interval.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_ERRORS_FOR_INTERVAL or LSTERR

Total Warnings For Interval attribute

Description
The total number of warnings that are reported during the last interval.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_WARNINGS_FOR_INTERVAL or LSTWARN

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Archive Dest attribute group

The DG Archive Dest attribute group provides information about all archive destinations in the data guard configuration.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Archive Dest attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Destination ID attribute: This attribute is a key attribute.

Description
The ID (1 - 10) for the log archive destination.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DESTINATION_ID or DEST_ID

Destination Name attribute

Description
The name of the log archive destination parameter.

Type String

Warehouse name
DESTINATION_NAME or DEST_NAME

Status attribute

Description
The status of the destination.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- VALID (VALID)

- INACTIVE (INACTIVE)
- DEFERRED (DEFERRED)
- ERROR (ERROR)
- DISABLED (DISABLED)
- BAD PARAM (BAD PARAM)
- ALTERNATE (ALTERNATE)
- FULL (FULL)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS

Binding attribute

Description
Specifies how a failure affects the archival operation.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- MANDATORY (MANDATORY)
- OPTIONAL (OPTIONAL)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BINDING

Name Space attribute

Description
The scope of the parameter setting.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- SYSTEM (SYSTEM)
- SESSION (SESSION)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NAME_SPACE

Target attribute

Description
Specifies whether the archive destination is local or remote.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- PRIMARY (PRIMARY)
- STANDBY (STANDBY)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TARGET

Archiver attribute

Description
The archiver process that is relative to the database where the query is issued.

Type String

Warehouse name
ARCHIVER

Schedule attribute

Description
The status of the archive at this destination. The valid values are INACTIVE, PENDING, ACTIVE, and LATENT.

Type String

Warehouse name
SCHEDULE

Destination attribute

Description
The location where the archived redo logs are archived.

Type String

Warehouse name
DESTINATION or DESTION

Log Sequence attribute

Description
The sequence number for the last archived redo log to be archived.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOG_SEQUENCE or LOG_SEQ

Reopen Time(seconds) attribute

Description
The retry time (in seconds) after an error occurs.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REOPEN_TIME or REOPENSECS

Delay Time(minutes) attribute

Description
The delay interval (in minutes) before the archived redo log is applied.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DELAY_TIME or DELAY_MINS

Max Connections attribute

Description
The maximum number of connections.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_CONNECTIONS or MAX_CONN

Net Timeout(seconds) attribute

Description
The number of seconds the log writer process blocks while waiting for an acknowledgement that redo data was successfully received.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NET_TIMEOUT or NETTIMEOUT

Process attribute

Description
The archive process that is relative to the primary database.

Type String

Warehouse name
PROCESS

Register attribute

Description
Indicates whether the archived redo log is registered.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (Yes)
- NO (No)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REGISTER

Fail Date attribute

Description
The date and time when the last error occurred.

Type Timestamp

Warehouse name
FAIL_DATE

Fail Sequence attribute

Description
The sequence number for the redo log that was being archived when the last error occurred.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FAIL_SEQUENCE or FAIL_SEQ

Fail Block attribute

Description
The block number for the redo log that was being archived when the last error occurred.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FAIL_BLOCK

Failure Count attribute

Description
The current number of continuous archival operation failures that occurred for the destination.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FAILURE_COUNT or FAIL_COUNT

Max Failure attribute

Description
The number of times that log transport services attempts to re-establish the communication.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_FAILURE or MAX_FAIL

Error attribute

Description
The error text.

Type String

Warehouse name
ERROR

Alternate attribute

Description
The alternative archive destination.

Type String

Warehouse name
ALTERNATE

Dependency attribute

Description
Reserved for future use.

Type String

Warehouse name
DEPENDENCY

Remote Template attribute

Description
The template that is used to derive the location to be recorded.

Type String

Warehouse name
REMOTE_TEMPLATE or REMOTE_TEM

Quota Size(Bytes) attribute

Description
Destination quotas.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
QUOTA_SIZE

Quota Used(Bytes) attribute

Description
The size of all archived redo logs that are currently at the specified destination.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
QUOTA_USED

Mount ID attribute

Description
The instance mount identifier.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MOUNT_ID or MOUNTID

Transmit Mode attribute

Description
The network transmission mode.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- SYNCHRONOUS (SYNCHRONOUS)
- PARALLELSYNC (PARALLELSYNC)
- ASYNCHRONOUS (ASYNCHRONOUS)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TRANSMIT_MODE or TRAN_MODE

Async Blocks attribute

Description
The number of blocks that are specified by the ASYNC attribute to determine the size of the SGA network buffer to be used.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ASYNC_BLOCKS or ASYNBLKS

Affirm attribute

Description
The disk I/O mode.

Type String

Warehouse name
AFFIRM

Type attribute

Description
Indicates whether the definition of the archive destination is public or private.

Type String

Warehouse name
TYPE

Valid Now attribute

Description
Indicates whether the archive destination is to be used.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- WRONG VALID TYPE (WRONG VALID_TYPE)
- WRONG VALID ROLE (WRONG VALID_ROLE)
- INACTIVE (INACTIVE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
VALID_NOW

Valid Type attribute

Description
The redo log types that are valid for the destination.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ONLINE LOGFILE (ONLINE_LOGFILE)
- STANDBY LOGFILE (STANDBY_LOGFILE)
- ALL LOGFILES (ALL_LOGFILES)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
VALID_TYPE

Valid Role attribute

Description
The database roles that are valid for the destination.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- PRIMARY ROLE (PRIMARY_ROLE)
- STANDBY ROLE (STANDBY_ROLE)
- ALL ROLES (ALL_ROLES)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
VALID_ROLE

DB Unique Name attribute

Description
The unique database name.

Type String

Warehouse name
DB_UNIQUE_NAME or DBUNAME

Verify attribute

Description
Indicates whether the value of the VERIFY attribute on the LOG_ARCHIVE_DEST_n parameter is verified.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (Yes)
- NO (No)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
VERIFY

Compression attribute

Description
Indicates whether network compression is enabled or disabled.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ENABLED (ENABLED)
- DISABLED (DISABLED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
COMPRESSION or COMPRES

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Archive Dest and Status attribute group

The DG Archive Dest And Status attribute group displays all archive destinations for the current database instance in the data guard configuration, and provides runtime and configuration information about each destination.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Archive Dest and Status attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Destination ID attribute

Description
The ID (1 - 31) for the log archive destination parameter.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DESTINATION_ID or DESTID

Destination Name attribute: This attribute is a key attribute.

Description
The name of the log archive destination parameter.

Type String

Warehouse name
DESTINATION_NAME or DESTNAME

Status attribute

Description
The status of the destination.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Valid (VALID)
- Inactive (INACTIVE)
- Deferred (DEFERRED)
- Error (ERROR)
- Disabled (DISABLED)

- BAD PARAM (BAD PARAM)
- Alternate (ALTERNATE)
- Full (FULL)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS

Database Type attribute

Description
The type of the archival destination database.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Local (LOCAL)
- Physical (PHYSICAL)
- Cross-Instance (CROSS-INSTANCE)
- Logical (LOGICAL)
- Snapshot (SNAPSHOT)
- Downstream (DOWNSTREAM)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DATABASE_TYPE or DBTYPE

Database Mode attribute

Description
The current mode for the archival destination database.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Started (STARTED)
- Mounted (MOUNTED)
- Mounted Standby (MOUNTED-STANDBY)
- Open Read/Write (OPEN)
- Open Read-Only (OPEN_READ-ONLY)
- Unknown (UNKNOWN)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DATABASE_MODE or DBMODE

Recovery Mode attribute

Description
The current apply mode at the archival destination.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Idle (IDLE)
- Managed (MANAGED)
- MANAGED REAL TIME APPLY (MANAGED REAL TIME APPLY)
- LOGICAL REAL TIME APPLY (LOGICAL REAL TIME APPLY)
- LOGICAL APPLY (LOGICAL APPLY)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RECOVERY_MODE or RECOMODE

Protection Mode attribute

Description
Indicates whether the database is protected.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- MAXIMUM PROTECTION (MAXIMUM PROTECTION)
- MAXIMUM AVAILABILITY (MAXIMUM AVAILABILITY)
- Resynchronization (RESYNCHRONIZATION)
- MAXIMUM PERFORMANCE (MAXIMUM PERFORMANCE)
- Unprotected (UNPROTECTED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PROTECTION_MODE or PROTMODE

Destination attribute

Description
The location where the redo data is to be archived.

Type String

Warehouse name
DESTINATION or DEST

Standby Logfile Count attribute

Description
The total number of standby redo logs that are created for the standby database.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STANDBY_LOGFILE_COUNT or STDLOGCNT

Standby Logfile Active attribute

Description
The total number of standby redo logs for the standby database that are active and contain the online redo log information about the primary database.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STANDBY_LOGFILE_ACTIVE or STDLOGACT

Archived Thread Number attribute

Description
The thread number for the most recent archived redo log that was received at the destination.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVED_THREAD_NUMBER or ARCTHDNUM

Archived Sequence Number attribute

Description
The log sequence number for the most recently archived redo log that was received at the destination.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVED_SEQUENCE_NUMBER or ARCSEQNUM

Applied Thread Number attribute

Description
The thread number for the most recently applied redo log that was received at the destination.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
APPLIED_THREAD_NUMBER or APPTHDNUM

Applied Sequence Number attribute

Description
The log sequence number for the most recently applied redo log that was received at the destination.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
APPLIED_SEQUENCE_NUMBER or APPSEQNUM

Error attribute

Description
Shows the error text.

Type String

Warehouse name
ERROR

SRL attribute

Description
Indicates whether standby redo log files are used with the standby database.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SRL

DB Unique Name attribute

Description
The unique database name. The name is defined by the DB_UNIQUE_NAME attribute on the LOG_ARCHIVE_DEST_n parameter.

Type String

Warehouse name
DB_UNIQUE_NAME or DBUNINAME

Synchronization Status attribute

Description
The status of the synchronization.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- CHECK CONFIGURATION (CHECK CONFIGURATION)
- CHECK STANDBY REDO LOG (CHECK STANDBY REDO LOG)
- CHECK NETWORK (CHECK NETWORK)
- OK (OK)
- DESTINATION HAS A GAP (DESTINATION HAS A GAP)
- NOT AVAILABLE (NOT AVAILABLE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SYNCHRONIZATION_STATUS or SYNSTATUS

Synchronized attribute

Description
Indicates whether the destination is synchronized with the primary database.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)
- Unknown (UNKNOWN)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SYNCHRONIZED or SYNCHRZD

Gap Status attribute

Description
Redo gap status.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO GAP (NO GAP)
- LOG SWITCH GAP (LOG SWITCH GAP)
- RESOLVABLE GAP (RESOLVABLE GAP)
- UNRESOLVABLE GAP (UNRESOLVABLE GAP)
- LOCALLY UNRESOLVABLE GAP (LOCALLY UNRESOLVABLE GAP)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GAP_STATUS or GAPSTATUS

Binding attribute

Description
Specifies how a failure affects the archival operation.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Mandatory (MANDATORY)

- Optional (OPTIONAL)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BINDING

Name Space attribute

Description
Identifies the scope of the parameter setting.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- System (SYSTEM)
- Session (SESSION)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NAME_SPACE or NAMESPACE

Target attribute

Description
Specifies whether the archive destination is local or remote to the primary database.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Primary (PRIMARY)
- Standby (STANDBY)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TARGET

Archiver attribute

Description
The archiver process that is relative to the database where the query is issued.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ARCn (ARCn)
- FOREGROUND (FOREGROUND)
- LGWR (LGWR)
- RFS (RFS)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVER

Schedule attribute

Description
The status of the archive at this destination. The valid values are INACTIVE, PENDING, ACTIVE, and LATENT.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Inactive (INACTIVE)
- Pending (PENDING)
- Active (ACTIVE)
- Latent (LATENT)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SCHEDULE

Log Sequence attribute

Description
The sequence number of the last archived redo log to be archived.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOG_SEQUENCE or LOGSEQ

Reopen Secs attribute

Description
The retry time (in seconds) after an error occurs.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REOPEN_SECS or REOPENSECS

Delay Mins attribute

Description
The delay interval (in minutes) before the archived redo log is automatically applied to a standby database.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DELAY_MINS or DELAYMINS

Max Connections attribute

Description
The maximum number of connections.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_CONNECTIONS or MAXCONN

Net Timeout (Secs) attribute

Description
The number of seconds that the log writer process blocks while waiting for an acknowledgement that redo data was successfully received.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NET_TIMEOUT or NETTIMEOUT

Process attribute

Description
The archiver process that is relative to the primary database, even if the query is issued on the standby database.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ARCn (ARCn)
- FOREGROUND (FOREGROUND)
- LGWR (LGWR)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PROCESS

Register attribute

Description
Indicates whether the archived redo log is registered in the remote destination control file. If the archived redo log is registered, the log is available to log apply services.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REGISTER

Fail Date attribute

Description
The date and time when the last error occurred.

Type Timestamp

Warehouse name
FAIL_DATE or FAILDATE

Fail Sequence attribute

Description
The sequence number of the archived redo log that was being archived when the last error occurred.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FAIL_SEQUENCE or FAILSEQ

Fail Block attribute

Description
The block number of the archived redo log that was being archived when the last error occurred.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FAIL_BLOCK or FAILBLK

Failure Count attribute

Description
The current number of continuous archival operation failures that occur at the destination.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FAILURE_COUNT or FAILCNT

Max Failure attribute

Description
The number of times that log transport services attempted to re-establish communication and resume archival operations with a failed destination.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_FAILURE or MAXFAIL

Alternate attribute

Description
The alternative archive destination, if applicable

Type String

Warehouse name
ALTERNATE

Dependency attribute

Description
Reserved for future use.

Type String

Warehouse name
DEPENDENCY

Remote Template attribute

Description
The template to be used to derive the location to be recorded.

Type String

Warehouse name
REMOTE_TEMPLATE or RMTTEPLT

Quota Size attribute

Description
The destination quotas (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
QUOTA_SIZE or QUOTASIZE

Quota Used attribute

Description
The size of all archived redo logs that are currently at the specified destination.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
QUOTA_USED or QUOTAUSED

Mount ID attribute

Description
The instance mount identifier.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MOUNT_ID or MOUNTID

Transmit Mode attribute

Description
The network transmission mode.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Synchronous (SYNCHRONOUS)
- Parallelsync (PARALLELSYNC)
- Asynchronous (ASYNCHRONOUS)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TRANSMIT_MODE or TRANMODE

ASYNC Blocks attribute

Description
The number of blocks that are specified by the ASYNC attribute to determine the size of the SGA network buffer to be used.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ASYNC_BLOCKS or ASYBLKS

Affirm attribute

Description
The disk I/O mode.

Type String

Warehouse name
AFFIRM

Destination Type attribute

Description
Indicates whether the definition of the archived log destination is public or private. Only public destinations can be modified at run time by using the ALTER SYSTEM SET statement or the ALTER SESSION SET statement.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Public (PUBLIC)
- Private (PRIVATE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DESTINATION_TYPE or DESTTYPE

Valid Now attribute

Description
Indicates whether the destination is currently valid for archival operations.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- WRONG VALID TYPE (WRONG VALID_TYPE)
- WRONG VALID ROLE (WRONG VALID_ROLE)
- Inactive (INACTIVE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
VALID_NOW or VALIDNOW

Valid Type attribute

Description
The redo log types that are valid for the destination.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Online Logfile (ONLINE_LOGFILE)
- Standby Logfile (STANDBY_LOGFILE)
- All Logfiles (ALL_LOGFILES)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
VALID_TYPE or VALIDTYPE

Valid Role attribute

Description
The database roles that are valid for the destination.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Primary Role (PRIMARY_ROLE)
- Standby Role (STANDBY_ROLE)
- All Roles (ALL_ROLES)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
VALID_ROLE or VALIDROLE

Verify attribute

Description
Indicates whether the value of the VERIFY attribute on the LOG_ARCHIVE_DEST_n parameter is verified.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
VERIFY

Compression attribute

Description
Indicates whether network compression is enabled or disabled.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Enabled (ENABLED)
- Disabled (DISABLED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
COMPRESSION or CPMPRESS

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Archive Dest Status attribute group

This attribute group provides runtime and configuration information about the archived destinations of redo logs.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Archive Dest Status attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Destination ID attribute: This attribute is a key attribute.

Description
The ID (1 - 10) for the log archive destination parameter.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DESTINATION_ID or DEST_ID

Destination Name attribute

Description
The name of the log archive destination parameter.

Type String

Warehouse name
DESTINATION_NAME or DEST_NAME

Status attribute

Description
The status of the destination.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- VALID (VALID)
- INACTIVE (INACTIVE)
- DEFERRED (DEFERRED)
- ERROR (ERROR)
- DISABLED (DISABLED)
- BAD (BAD)
- ALTERNATE (ALTERNATE)
- FULL (FULL)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS

Type attribute

Description
The type of the archival destination database.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- LOCAL (LOCAL)
- PHYSICAL (PHYSICAL)
- CROSS (CROSS)
- LOGICAL (LOGICAL)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TYPE

Database Mode attribute

Description
The current mode for the archival destination database.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- STARTED (STARTED)
- MOUNTED (MOUNTED)
- MOUNTED-STANDBY (MOUNTED-STANDBY)
- OPEN (OPEN)
- OPEN READ-ONLY (OPEN_READ-ONLY)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DATABASE_MODE or DB_MODE

Recover Mode attribute

Description
The current mode of media recovery at the archival destination database.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- IDLE (IDLE)
- MANUAL (MANUAL)
- MANAGED (MANAGED)
- MANAGED REAL TIME APPLY (MANAGED REAL TIME APPLY)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RECOVER_MODE or RECOVMODE

Protection Mode attribute

Description
Indicates whether the database is protected.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- MAXIMUM PROTECTION (MAXIMUM PROTECTION)
- MAXIMUM AVAILABILITY (MAXIMUM AVAILABILITY)
- RESYNCHORNIZATION (RESYNCHORNIZATION)
- UNPROTECTED (UNPROTECTED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PROTECTION_MODE or PROTMODE

Destination attribute

Description
The location where the redo data is to be archived.

Type String

Warehouse name
DESTINATION or DESTION

Standby Logfile Count attribute

Description
The total number of standby redo logs that are created for the standby database.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STANDBY_LOGFILE_COUNT or STDLOGCOUT

Standby Logfile Active attribute

Description
The total number of standby redo logs for the standby database.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STANDBY_LOGFILE_ACTIVE or STDLOGACT

Archived Thread attribute

Description
The thread number for the most recently archived redo log that was received at the destination.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVED_THREAD or ARCHTHREAD

Archived Sequence Number attribute

Description
The log sequence number for the most recently archived redo log that was received at the destination.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVED_SEQ or ARCHSEQ

Applied Thread attribute

Description
The thread number for the most recently applied redo log that was received at the destination.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
APPLIED_THREAD or APPTHREAD

Applied Seq attribute

Description
The log sequence number for the most recently applied redo log that was received at the destination.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
APPLIED_SEQ or APPSEQ

Error attribute

Description
The error text.

Type String

Warehouse name
ERROR

Standby Redo Log attribute

Description
Indicates whether standby redo log files are used with the standby database (YES) or not (NO).

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (Yes)
- NO (No)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STANDBY_REDO_LOG or SRL

DB Unique Name attribute

Description
The unique database name of the current instance.

Type String

Warehouse name
DB_UNIQUE_NAME or DBUNAME

Synchronization Status attribute

Description
The status of the synchronization.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- CHECK CONFIGURATION (CHECK CONFIGURATION)
- CHECK STANDBY REDO LOG (CHECK STANDBY REDO LOG)
- CHECK NETWORK (CHECK NETWORK)
- DESTINATION HAS A GAP (DESTINATION HAS A GAP)
- OK (OK)
- NOT AVAILABLE (NOT AVAILABLE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SYNCHRONIZATION_STATUS or SYNCSTATUS

Synchronized attribute

Description
Indicates whether the standby database is synchronized with the primary database.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (Yes)
- NO (No)
- UNKNOWN (Unknown)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SYNCHRONIZED or SYNC

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Archive Gap attribute group

This attribute group provides information to help identify a gap in the archived redo log files.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Archive Gap attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Thread attribute: This attribute is a key attribute.

Description
The thread number for the missing archived log file.

Type Integer (64-bit numeric property) with enumerated values. The strings are

displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD

Low Sequence attribute: This attribute is a key attribute.

Description
The lowest sequence number for the log files that are received on the standby system.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOW_SEQUENCE or LOW_SEQ

Hig Sequence attribute: This attribute is a key attribute.

Description
The highest sequence number for the log files that are received on the standby system.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
HIGH_SEQUENCE or HIGH_SEQ

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Archived Log attribute group

This attribute group provides archived log information from the control file.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Archived Log attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Record ID attribute: This attribute is a key attribute.

Description
The ID for the archived log record.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REC_ID or RECID

Stamp attribute

Description
The stamp for the archived log record.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STAMP

Name attribute

Description
The name of the archived log file.

Type String

Warehouse name
NAME

Destination ID attribute

Description
The original destination from which the archived log is generated.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DESTINATION_ID or DEST_ID

Thread attribute

Description
The thread number for the redo log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD

Sequence attribute

Description
The sequence number for the redo log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SEQUENCE

Resetlogs Change attribute

Description
The RESETLOGS SCN (system change number) for the database when the log is written.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESETLOGS_CHANGE or RESETLOGCH

Resetlogs Time attribute

Description
The RESETLOGS timestamp for the database when the log is written.

Type Timestamp

Warehouse name
RESETLOGS_TIME or RESETLOGT

Resetlogs ID attribute

Description
The Resetlogs ID that is associated with the archived redo log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESETLOG_ID or RESETLOGID

First Change attribute

Description
The first change number in the archived log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FIRST_CHANGE or FIRSTCH

First Time attribute

Description
The timestamp for the first change.

Type Timestamp

Warehouse name
FIRST_TIME

Next Change attribute

Description
The first change number in the next log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NEXT_CHANGE or NEXTCHANGE

Next Time attribute

Description
The timestamp for the first change in the next log.

Type Timestamp

Warehouse name
NEXT_TIME

Blocks attribute

Description
The size of the archived log (in blocks).

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCKS

Block Size attribute

Description
The size of a redo log block.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCK_SIZE

Creator attribute

Description
The creator of the archive log.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ARCH (Archive process)
- FGRD (Foreground process)
- RMAN (Recovery Manager)
- SRMN (RMAN at standby)
- LGWR (Logwriter process)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CREATOR

Registrar attribute

Description
The registrar for the entry.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- RFS (Remote File Server process)
- ARCH (Archive process)
- FGRD (Foreground process)
- RMAN (Recovery Manager)
- SRMN (RMAN at standby)
- LGWR (Logwriter process)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REGISTRAR

Standby Destination attribute

Description
Indicates whether the entry is an archive log destination.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (Yes)
- NO (No)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STANDBY_DESTINATION or STDDEST

Archived attribute

Description
Indicates whether the online redo log is archived (YES) or not (NO).

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (Yes)
- NO (No)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVED

Applied attribute

Description
Indicates whether the archived log file is applied.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (Yes)
- NO (No)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
APPLIED

Deleted attribute

Description
Indicates whether the archived log file is deleted.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (Yes)
- NO (No)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DELETED

Status attribute

Description
The status of the archived log.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- A (Available)
- D (Deleted)
- U (Unavailable)
- X (Expired)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS

Completion Time attribute

Description
The time when the archive completes.

Type Timestamp

Warehouse name
COMPLETION_TIME or COMPL_TIME

Dictionary Begin attribute

Description
Indicates whether the log contains the start of a LogMiner.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (Yes)
- NO (No)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DICTIONARY_BEGIN or DICT_BEG

Dictionary End attribute

Description
Indicates whether the log contains the end of a LogMiner.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (Yes)
- NO (No)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DICTIONARY_END or DICT_END

End Of Redo attribute

Description
Indicates whether the archived redo log contains the end of all redo information.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (Yes)
- NO (No)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
END_OF_REDO or ENDOFREDO

Backup Count attribute

Description
The number of times that the file is backed up.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BACKUP_COUNT or BACK_COUNT

Archival Thread attribute

Description
The redo thread number for the instance that performed the archival operation.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVAL_THREAD or ARCHTHREAD

Activation attribute

Description
The number that is assigned to the database instantiation.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ACTIVATION

Is Recovery Dest File attribute

Description
Indicates whether the file is created in the flash recovery area.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (Yes)
- NO (No)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_RECOVERY_DEST_FILE or ISREDESTF

Compressed attribute

Description
Reserved for internal use.

Type String

Warehouse name
COMPRESSED

FAL attribute

Description
Indicates whether the archive log is generated as the result of a FAL request.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (Yes)
- NO (No)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FAL

End Of Redo Type attribute

Description
The end type of the redo file.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- SWITCHOVER (SWITCHOVER)
- TERMINAL (TERMINAL)
- RESETLOGS (RESETLOGS)
- ACTIVATION (ACTIVATION)
- (NORMAL)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
END_OF_REDO_TYPE or EOFREDOTY

Backed by VSS attribute

Description
Indicates whether the file is backed up by Volume Shadow Copy Service (VSS).

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (Yes)
- NO (No)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BACKED_BY_VSS or BACKBYVSS

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG BGProcess Stats attribute group

This attribute group provides statistics for background processes running in the database.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG BGProcess Stats attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Process Name attribute: This attribute is a key attribute.

Description
The name of the background process.

Type String

Warehouse name
PROCESS_NAME or PNAME

Process Count attribute

Description
The count of running background processes.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PROCESS_COUNT or PCOUNT

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Customized SQL Detail attribute group

The DG Customized SQL Detail attribute group provides results of customized SQL executions, including five string columns, five number columns, and two datetime columns.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Customized SQL Detail attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

SQL ID attribute: This attribute is a key attribute.

Description
The SQL ID that is defined in the definition file.

Type String

Warehouse name
SQL_ID or SQLID

First String Column Name attribute

Description
The name of the first string type column in the result of the customized SQL execution.

Type String

Warehouse name
STRING_NAME_1 or STRNAME1

First String Value attribute

Description
The first string value in the result of the customized SQL execution.

Type String

Warehouse name
STRING_VALUE_1 or STRVALUE1

Second String Column Name attribute

Description
The name of the second string type column in the result of the customized SQL execution.

Type String

Warehouse name
STRING_NAME_2 or STRNAME2

Second String Value attribute

Description
The second string value in the result of the customized SQL execution.

Type String

Warehouse name
STRING_VALUE_2 or STRVALUE2

Third String Column Name attribute

Description
The name of the third string type column in the result of the customized SQL execution.

Type String

Warehouse name
STRING_NAME_3 or STRNAME3

Third String Value attribute

Description
The third string value in the result of the customized SQL execution.

Type String

Warehouse name
STRING_VALUE_3 or STRVALUE3

Fourth String Column Name attribute

Description
The name of the fourth string type column in the result of the customized SQL execution.

Type String

Warehouse name
STRING_NAME_4 or STRNAME4

Fourth String Value attribute

Description
The fourth string value in the result of the customized SQL execution.

Type String

Warehouse name
STRING_VALUE_4 or STRVALUE4

Fifth String Column Name attribute

Description
The name of the fifth string type column in the result of the customized SQL execution.

Type String

Warehouse name
STRING_NAME_5 or STRNAME5

Fifth String Value attribute

Description
The fifth string value in the result of the customized SQL execution.

Type String

Warehouse name
STRING_VALUE_5 or STRVALUE5

First Number Column Name attribute

Description
The name of the first number type column in the result of the customized SQL execution.

Type String

Warehouse name
NUMBER_NAME_1 or NUMNAME1

First Number Value attribute

Description
The first number value in the result of the customized SQL execution.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-999999999)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUMBER_VALUE_1 or NUMVALUE1

Second Number Column Name attribute

Description
The name of the second number type column in the result of the customized SQL execution.

Type String

Warehouse name
NUMBER_NAME_2 or NUMNAME2

Second Number Value attribute

Description
The second number value in the result of the customized SQL execution.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-999999999)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUMBER_VALUE_2 or NUMVALUE2

Third Number Column Name attribute

Description
The name of the third number type column in the result of the customized SQL execution.

Type String

Warehouse name
NUMBER_NAME_3 or NUMNAME3

Third Number Value attribute

Description
The third number value in the result of the customized SQL execution.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-999999999)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUMBER_VALUE_3 or NUMVALUE3

Fourth Number Column Name attribute

Description
The name of the fourth number type column in the result of the customized SQL execution.

Type String

Warehouse name
NUMBER_NAME_4 or NUMNAME4

Fourth Number Value attribute

Description
The fourth number value in the result of the customized SQL execution.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-999999999)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUMBER_VALUE_4 or NUMVALUE4

Fifth Number Column Name attribute

Description
The name of the fifth number type column in the result of the customized SQL execution.

Type String

Warehouse name
NUMBER_NAME_5 or NUMNAME5

Fifth Number Value attribute

Description
The fifth number value in the result of the customized SQL execution.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-999999999)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUMBER_VALUE_5 or NUMVALUE5

First Date Column Name attribute

Description
The name of the first datetime type column in the result of the customized SQL execution.

Type String

Warehouse name
DATETIME_NAME_1 or DATENAME1

First Date Value attribute

Description
The first datetime value in the result of the customized SQL execution.

Type Timestamp

Warehouse name
DATETIME_VALUE_1 or DATEVALUE1

Second Date Column Name attribute

Description
The name of the second datetime type column in the result of the customized SQL execution.

Type String

Warehouse name
DATETIME_NAME_2 or DATENAME2

Second Date Value attribute

Description
The second datetime value in the result of the customized SQL execution.

Type Timestamp

Warehouse name
DATETIME_VALUE_2 or DATEVALUE2

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Customized SQL Summary attribute group

The DG Customized SQL summary attribute group provides summary information about customized SQL statements, such as the name of the definition file, last updated time of the definition file, SQL ID, SQL content, error code, and error message.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Customized SQL Summary attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Customized Definition File attribute: This attribute is a key attribute.

Description
The location of the definition file for customized SQL statements.

Type String

Warehouse name
CUSTOMIZED_DEFINITION_FILE or CUSSQLFILE

Definition File Last Modified Time attribute: This attribute is a key attribute.

Description
The last modified time of the definition file.

Type Timestamp

Warehouse name
LAST_MODIFIED_TIME or LASTMTIME

SQL ID attribute

Description
The SQL ID that is defined in the definition file.

Type String

Warehouse name
SQL_ID or SQLID

SQL Content attribute

Description
The SQL content that is defined in the definition file. The carriage return is replaced by a blank. The text that is shown is limited to 512 bytes.

Type String

Warehouse name
SQL_CONTENT or SQLCONTENT

Last Execution Error Code attribute

Description
The ORA error code of the last execution.

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LAST_EXECUTION_ERROR_CODE or LASTERROR

Last Execution Error Message attribute

Description
The ORA error message of the last execution.

Type String

Warehouse name
LAST_EXECUTION_ERROR_MESSAGE or LASTERRMSG

Last Execution Time attribute

Description
The time of the last execution.

Type Timestamp

Warehouse name
LAST_EXECUTION_TIME or LASTTIME

Defined SQL Timeout (seconds) attribute

Description
The timeout (in seconds) that is defined in the definition file. If the SQL execution time exceeds this timeout, the SQL execution is canceled. This value must be greater than 5 (seconds) and less than 1800 (seconds).

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SQL_TIMEOUT or SQLTIMEOUT

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Database Overview attribute group

The DG Database Overview attribute group provides information about the characteristics of the monitored databases.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Database Overview attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Database ID attribute: This attribute is a key attribute.

Description
The identifier for the monitored database.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DATABASE_ID or DBID

Database Name attribute

Description
The name of the monitored database.

Type String

Warehouse name
DATABASE_NAME or NAME

Creation Datetime attribute

Description
The time and date when the database was created.

Type Timestamp

Warehouse name
CREATION_DATETIME or CREATED

Resetlogs Change Number attribute

Description
The SCN (system change number) at the open resetlogs operation.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESETLOGS_CHANGE_NUMBER or RESETSCN

Resetlogs Time attribute

Description
The timestamp for the open resetlogs operation.

Type Timestamp

Warehouse name
RESETLOGS_TIME or RESETTIME

Prior Resetlogs Change Number attribute

Description
The SCN at the prior resetlogs operation.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PRIOR_RESETLOGS_CHANGE_NUMBER or PRISTSCN

Prior Resetlogs Time attribute

Description
The timestamp for the prior resetlogs operation.

Type Timestamp

Warehouse name
PRIOR_RESETLOGS_TIME or PRISTTIME

Archive Log Mode attribute

Description
The archive log mode. The valid values are NOARCHIVELOG, ARCHIVELOG, and MANUAL.

Type String

Warehouse name
ARCHIVE_LOG_MODE or LOG_MODE

Checkpoint Change Number attribute

Description
The last SCN checkpointed.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CHECKPOINT_CHANGE_NUMBER or CHPCHGNUM

Archive Change Number attribute

Description
The SCN that the database uses for force archive. Any redo log with a start SCN that is smaller than this value is forced to archive out.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVE_CHANGE_NUMBER or ARCHGNUM

Controlfile Type attribute

Description
The type of the control file.

Type String

Warehouse name
CONTROLFILE_TYPE or CTRLFTYPE

Controlfile Create Time attribute

Description
The date when the control file is created.

Type Timestamp

Warehouse name
CONTROLFILE_CREATE_TIME or CTRLFDATE

Controlfile Sequence Number attribute

Description
The sequence number for the control file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CONTROLFILE_SEQUENCE_NUMBER or CTRLFSEQ

Controlfile Change Number attribute

Description
The last SCN in the backup control file. The value is null if the control file is not a backup control file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CONTROLFILE_CHANGE_NUMBER or CTRLFCNUM

Last Controlfile Time attribute

Description
The last timestamp in the backup control file. The value is null if the control file is not a backup control file.

Type Timestamp

Warehouse name
LAST_CONTROLFILE_TIME or CTRLFLTIME

Open Resetlogs attribute

Description
Indicates whether the next database open operation allows or requires the resetlogs option.

Type String

Warehouse name
OPEN_RESETLOGS or OPENRSTLOG

Version Time attribute

Description
The version time.

Type Timestamp

Warehouse name
VERSION_TIME or VERTIME

Open Mode attribute

Description
The open mode of the database.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- MOUNTED (MOUNTED)
- READ WRITE (READ WRITE)
- READ ONLY (READ ONLY)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OPEN_MODE

Protection Mode attribute

Description
The protection mode that is currently in effect for the database.

Type String

Warehouse name
PROTECTION_MODE or PROCTMODE

Protection Level attribute

Description
The aggregated protection mode that is currently in effect for the database.

Type String

Warehouse name
PROTECTION_LEVEL or PROCTLEVEL

Remote Archive attribute

Description
The value of the REMOTE_ARCHIVE_ENABLE initialization parameter.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ENABLED (ENABLED)
- DISABLED (DISABLED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REMOTE_ARCHIVE or R_ARCHIVE

Activation Number attribute

Description
The number that is assigned to the database instantiation.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ACTIVATION_NUMBER or ACTIVATION

Switchover Number attribute

Description
The number that is assigned to the database switchover.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SWITCHOVER_NUMBER or SWITCHOVER

Database Role attribute

Description
The current role of the monitored database.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Primary (PRIMARY)
- PHYSICAL STANDBY (PHYSICAL STANDBY)
- LOGICAL STANDBY (LOGICAL STANDBY)
- SNAPSHOT STANDBY (SNAPSHOT STANDBY)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DATABASE_ROLE or DB_ROLE

Archivelog Change Number attribute

Description
The highest value of the NEXT_CHANGE# attribute from the V$ARCHIVED_LOG view for an archive log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVELOG_CHANGE_NUMBER or ARLOGCHG

Archivelog Compression attribute

Description
The status of the archive log compression.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ENABLED (ENABLED)
- DISABLED (DISABLED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVELOG_COMPRESSION or ARLOGCOMP

Switchover Status attribute

Description
Indicates whether switchover is allowed.

Type String

Warehouse name
SWITCHOVER_STATUS or SWO_STATUS

Dataguard Broker attribute

Description
Indicates whether the data guard configuration is being managed by the broker.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ENABLED (ENABLED)
- DISABLED (DISABLED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DATAGUARD_BROKER or DG_BROKER

Guard Status attribute

Description
Indicates whether data is protected from being changed.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ALL (ALL)
- STANDBY (STANDBY)
- NONE (NONE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GUARD_STATUS or GUARDSTAT

Supplemental LogData Min attribute

Description
Indicates whether the LogMiner and any products building on the LogMiner technology have sufficient information to support chained rows and various storage arrangements, such as cluster tables.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO (NO)
- IMPLICIT (IMPLICIT)
- YES (YES)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SUPPLEMENTAL_LOG_DATA_MIN or SLOGDMIN

Supplemental LogData PrimaryKey attribute

Description
For all tables with a primary key, indicates whether all columns of the primary key are placed in the redo log when an update is performed.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SUPPLEMENTAL_LOG_DATA_PRIMARYKEY or SLOGDPK

Supplemental LogData UniqueKey attribute

Description
For all tables with a unique key, indicates whether all other columns belonging to the unique key are placed in the redo log if any of the unique key columns are modified.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SUPPLEMENTAL_LOG_DATA_UNIQUEKEY or SLOGDUI

Force Logging attribute

Description
Indicates whether the database is in forced logging mode.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FORCE_LOGGING or FORCE_LOG

Platform ID attribute

Description
The platform identification number for the database.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PLATFORM_ID or PFORMID

Platform Name attribute

Description
The platform name of the database.

Type String

Warehouse name
PLATFORM_NAME or PFORMNAME

Recovery Target Incarnation attribute

Description
The incarnation number for the database where all data files are recovered by the RECOVER DATABASE command.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RECOVERY_TARGET_INCARNATION or RTARGETINC

Last Open Incarnation attribute

Description
The record number for the incarnation that was last opened successfully.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LAST_OPEN_INCARNATION or LASTOPINC

Current SCN attribute

Description
The current SCN.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CURRENT_SCN or CURRENTSCN

Flashback On attribute

Description
Indicates that flashback is on or off.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)
- RESTORE POINT ONLY (RESTORE POINT ONLY)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FLASHBACK_ON or FLASHBACK

Supplemental LogData ForeignKey attribute

Description
For all tables with a foreign key, indicates whether all other columns belonging to the foreign key are placed in the redo log if any foreign key column is modified.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SUPPLEMENTAL_LOG_DATA_FOREIGN_KEY or SLOGDFK

Supplemental LogData All attribute

Description
For all columns, indicates whether all the columns with a fixed-length maximum size in the row are placed in the redo log.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SUPPLEMENTAL_LOG_DATA_ALL or SLOGDALL

Database Unique Name attribute

Description
The unique name of the database.

Type String

Warehouse name
DATABASE_UNIQUE_NAME or UNIQUENAME

Standby Became Primary SCN attribute

Description
The SCN at which a physical standby database becomes a primary database.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STANDBY_BECAME_PRIMARY_SCN or STNDPRISCN

FastStart Failover Status attribute

Description
The status of a fast-start failover. This attribute is available only for Oracle 10g release 2 or later.

Type String

Warehouse name
FS_FAILOVER_STATUS or FSFOSTATUS

FastStart Failover Target attribute

Description
The unique database name for the standby database that is the current target standby database for fast-start failover (FSFO) in the data guard configuration. This attribute is available only for Oracle 10g release 2 or later.

Type String

Warehouse name
FS_FAILOVER_TARGET or FSFOCURTAR

FastStart Failover Threshold attribute

Description
The time (in seconds) that the observer attempts to reconnect to a disconnected primary database before the observer attempts a fast-start failover (FSFO) with the target standby database. This attribute is available only for Oracle 10g release 2 or later.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FS_FAILOVER_THRESHOLD or FSFOTHRESH

FastStart Failover Observer Present attribute

Description
Indicates whether the observer is currently connected to the local database. This attribute is available only for Oracle 10g release 2 or later.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FS_FAILOVER_OBSERVER_PRESENT or FSFOOBPRE

FastStart Failover Observer Host attribute

Description
The name of the workstation that is currently hosting the observer process. This attribute is available only for Oracle 10g release 2 or later.

Type String

Warehouse name
FS_FAILOVER_OBSERVER_HOST or FSFOOBHOST

ControlFile Converted attribute

Description
Indicates whether the control file was converted. This attribute is available only for Oracle 11g or later.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CONTROL_FILE_CONVERTED or CTRLFCONV

Primary Unique Name attribute

Description
The primary unique name of the database. This attribute is available only for Oracle 11g or later.

Type String

Warehouse name
PRIMARY_UNIQUE_NAME or PRIUNINAME

Supplemental LogData PL attribute

Description
Indicates whether additional information is logged in the redo log (YES) or not

(NO) during invocation of procedures in Oracle-supplied packages, for which procedural replication is supported. This attribute is available only for Oracle 11g or later.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SUPPLEMENTAL_LOG_DATA_PL or SLOGDPL

Min Required Capture Change Number attribute

Description
The minimum value of the REQUIRED_CHECKPOINT_SCN attribute for all local capture processes on the database. This attribute is available only for Oracle 11g or later.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MIN_REQUIRED_CAPTURE_CHANGE_NUMBER or MINREQCHG

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

DG DataFile attribute group

The DG Data File Overview attribute group provides information about all data files in the database.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the DG DataFile attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

File ID attribute: This attribute is a key attribute.

Description
The identification number for the file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FILE_ID or FILEID

Name attribute: This attribute is a key attribute.

Description
The name of the data file.

Type String

Warehouse name
NAME

Tablespace Name attribute

Description
The name of the table space that contains the data file.

Type String

Warehouse name
TABLESPACE_NAME or TBSNAME

Creation Change Number attribute

Description
The change number at which the data file is created.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CREATION_CHANGE or CREATECHAN

Creation Time attribute

Description
The timestamp for the data file creation.

Type Timestamp

Warehouse name
CREATION_TIME or CREATETIME

Tablespace Number attribute

Description
The number for the table space that contains the data file.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TABLESPACE_NUMBER or TSNUMBER

Relative Number attribute

Description
The relative data file number for the table space.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RELATIVE_NUMBER or RFILE

Status attribute

Description
The type and status of the file; the valid values are OFFLINE, ONLINE, SYSTEM, RECOVER, and SYSOFF.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- OFFLINE (OFFLINE)
- ONLINE (ONLINE)
- SYSTEM (SYSTEM)
- RECOVER (RECOVER)
- SYSOFF (SYSOFF)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS

Enabled attribute

Description
Describes how accessible the file is from SQL statements; the valid values are Disable, Read Only, Read Write, and Unknown.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Disabled (DISABLED)
- READ ONLY (READ ONLY)
- READ WRITE (READ WRITE)
- Unknown (UNKNOWN)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ENABLED

Checkpoint Change Number attribute

Description
The SCN (system change number) at the last checkpoint.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CHECKPOINT_CHANGE_NUMBER or CHKPCHAN

Checkpoint Time attribute

Description
The timestamp for the checkpoint.

Type Timestamp

Warehouse name
CHECKPOINT_TIME or CHKPTIME

Unrecoverable Change Number attribute

Description
The number for the last unrecoverable change that was made to this data file. This value is updated only when the database is in the ARCHIVELOG mode.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
UNRECOVERABLE_CHANGE_TIME or UNRECOCHAN

Unrecoverable Time attribute

Description
The timestamp for the last unrecoverable change. This value is updated only when the database is in the ARCHIVELOG mode.

Type Timestamp

Warehouse name
UNRECOVERABLE_TIME or UNRECOTIME

Last Change Number attribute

Description
The number for the last change that was made to the data file.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LAST_CHANGE or LASTCHANGE

Last Time attribute

Description
The timestamp for the last change.

Type Timestamp

Warehouse name
LAST_TIME or LASTTIME

Offline Change Number attribute

Description
The offline change number for the last offline range.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OFFLINE_CHANGE_NUMBER or OFFLINECHA

Online Change Number attribute

Description
The online change number for the last offline range.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ONLINE_CHANGE_NUMBER or ONLINECHAN

Online Time attribute

Description
The online timestamp for the last offline range.

Type Timestamp

Warehouse name
ONLINE_TIME or ONLINETIME

Bytes attribute

Description
The current size of the data file (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SIZE_BYTES or BYTES

Size(MB) attribute

Description
The current size of the data file (in MB).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SIZE_MB or MBYTES

Blocks attribute

Description
The current size of the data file (in blocks).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCKS

Create Bytes attribute

Description
The size of the data file when it is created (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CREATE_BYTES or CREATEBYTE

Block Size attribute

Description
The block size of the data file.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCK_SIZE or BLOCKSIZE

Plugged In attribute

Description
Describes whether the table space is plugged in.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PLUGGED_IN or PLUGGEDIN

Block Offset attribute

Description
The offset from the beginning of the data file.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCK_OFFSET or BLOCKOFFSE

Auxiliary Name attribute

Description
The auxiliary name that is set for this file.

Type String

Warehouse name
AUXILIARY_NAME or AUXNAME

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Disk Space attribute group

The DG Disk Space attribute group provides information about the disk space for archive destinations, table space files, and dump destinations. This attribute group is available only when the agent is installed on the same system with the Oracle database.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Disk Space attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or INSTNAME

Is Local attribute

Description
Indicates whether this instance is a local one.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_LOCAL or ISLOCAL

Owner Type attribute

Description
The owner type for the path.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Archive Destination (ARCHIVE_DEST)
- Data File (DATA_FILE)
- Dump Destination (DUMP_DEST)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OWNER_TYPE or OWNTYPE

Owner attribute: This attribute is a key attribute.

Description
The owner of the path.

Type String

Warehouse name
OWNER

Path attribute: This attribute is a key attribute.

Description
The path to monitor.

Type String

Warehouse name
PATH

Free Size (Bytes) attribute

Description
The size (in bytes) of the free disk space on the file system; this attribute is available only for local monitoring.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_SIZE_BYTES or FREESIZE

Free Size (MB) attribute

Description
The size (in MB) of the free disk space on the file system; this attribute is available only for local monitoring.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_SIZE_MB or MFRESIZE

Total Size (Bytes) attribute

Description
The total size (in bytes) of the file system; this attribute is available only for local monitoring.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_SIZE_BYTES or TOTLSIZE

Total Size (MB) attribute

Description
The total size (in MB) of the file system; this attribute is available only for local monitoring.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_SIZE_MB or MTOTSIZE

% Free attribute

Description
The percentage of free disk space on the file system; this attribute is available only for local monitoring.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PERCENTAGE_FREE or FREEPCT

Used Size (Bytes) attribute

Description
The size (in bytes) of the used disk space on the file system; this attribute is available only for local monitoring.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USED_SIZE_BYTES or USEDSIZE

Used Size (MB) attribute

Description
The size (in MB) of the used disk space on the file system; this attribute is available only for local monitoring.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USED_SIZE_MB or MUSESIZE

DG Latest Archived Log attribute group

This attribute group provides only the latest archived log information from the control file.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Latest Archived Log attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Record ID attribute: This attribute is a key attribute.

Description
The ID for the archived log record.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REC_ID or RECID

Stamp attribute

Description
The stamp for the archived log record.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STAMP

Name attribute

Description
The name of the archived log file.

Type String

Warehouse name
NAME

Destination ID attribute

Description
The ID for the original destination from which the archived log is generated.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DESTINATION_ID or DEST_ID

Thread attribute

Description
The thread number for the redo log.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD

Sequence attribute

Description
The sequence number for the redo log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SEQUENCE

Resetlogs Change attribute

Description
The resetlogs change number for the database when the log is written.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESETLOGS_CHANGE or RESETLOGCH

Resetlogs Time attribute

Description
The resetlogs time for the database when the log is written.

Type Timestamp

Warehouse name
RESETLOGS_TIME or RESETLOGT

Resetlogs ID attribute

Description
The resetlogs identifier that is associated with the archived redo log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESETLOG_ID or RESETLOGID

First Change attribute

Description
The first change number in the archived log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FIRST_CHANGE or FIRSTCH

First Time attribute

Description
The timestamp for the first change.

Type Timestamp

Warehouse name
FIRST_TIME

Next Change attribute

Description
The first change number in the next log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NEXT_CHANGE or NEXTCHANGE

Next Time attribute

Description
The timestamp for the first change in the next log.

Type Timestamp

Warehouse name
NEXT_TIME

Blocks attribute

Description
The size of the archived log (in blocks).

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCKS

Block Size attribute

Description
The size of a redo log block.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCK_SIZE

Creator attribute

Description
The creator of the archive log.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Archive process (ARCH)
- Foreground process (FGRD)
- Recovery Manager (RMAN)
- RMAN at standby (SRMN)
- Logwriter process (LGWR)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CREATOR

Registrar attribute

Description
The registrar for the entry.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Remote File Server process (RFS)
- Archive process (ARCH)
- Foreground process (FGRD)
- Recovery Manager (RMAN)
- RMAN at standby (SRMN)
- Logwriter process (LGWR)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REGISTRAR

Standby Destination attribute

Description
Indicates whether the entry is an archive log destination.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STANDBY_DESTINATION or STDDEST

Archived attribute

Description
Indicates whether the online redo log is archived (YES) or not (NO).

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVED

Applied attribute

Description
Indicates whether the archived log file is applied.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
APPLIED

Deleted attribute

Description
Indicates whether the archived log is deleted from the disk, the control file, and the recovery catalog (Yes) or not (No).

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DELETED

Status attribute

Description
The status of the archived log.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Available (A)
- Deleted (D)
- Unavailable (U)
- Expired (X)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS

Completion Time attribute

Description
The time when the archive completes.

Type Timestamp

Warehouse name
COMPLETION_TIME or COMPL_TIME

Dictionary Begin attribute

Description
Indicates whether the log contains the start of a LogMiner.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DICTIONARY_BEGIN or DICT_BEG

Dictionary End attribute

Description
Indicates whether the log contains the end of a LogMiner.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DICTIONARY_END or DICT_END

End Of Redo attribute

Description
Indicates whether the archived redo log contains the end of all redo information.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
END_OF_REDO or ENDOFREDO

Backup Count attribute

Description
The number of times that the file is backed up.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BACKUP_COUNT or BACK_COUNT

Archival Thread attribute

Description
The redo thread number for the instance that performs the archival operation.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVAL_THREAD or ARCHTHREAD

Activation attribute

Description
The number that is assigned to the database instantiation.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ACTIVATION

Is Recovery Dest File attribute

Description
Indicates whether the file is created in the flash recovery area.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_RECOVERY_DEST_FILE or ISREDESTF

Compressed attribute

Description
Reserved for internal use.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
COMPRESSED

FAL attribute

Description
Indicates whether the archive log is generated as the result of a FAL request.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FAL

End Of Redo Type attribute

Description
The end type of redo files.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- SWITCHOVER (SWITCHOVER)

- TERMINAL (TERMINAL)
- RESETLOGS (RESETLOGS)
- ACTIVATION (ACTIVATION)
- NORMAL (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
END_OF_REDO_TYPE or EOFREDOTY

Backed by VSS attribute

Description
Indicates whether the file is backed up by the Volume Shadow Copy Service (VSS).

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BACKED_BY_VSS or BACKBYVSS

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Log attribute group

This attribute group displays log file information from the control file.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the DG Log attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Group attribute: This attribute is a key attribute.

Description
The number for the log group.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GROUP or GROUP_NUM

Thread attribute: This attribute is a key attribute.

Description
The thread number for the log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD or THREAD_NUM

Sequence attribute: This attribute is a key attribute.

Description
The sequence number for the log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SEQUENCE or SEQ_NUM

Bytes(Bytes) attribute

Description
The size of the log (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BYTES

MBytes(MB) attribute

Description
The size of the log (in MB).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MBYTES

Members attribute

Description
The number of members in the log group.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MEMBERS

Archived attribute

Description
Indicates whether the log is archived.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVED

Status attribute

Description
The status of the log.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Unused (UNUSED)
- Current (CURRENT)
- Active (ACTIVE)
- Clearing (CLEARING)
- Clearing Current (CLEARING_CURRENT)
- Inactive (INACTIVE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS

First Change attribute

Description
The lowest system change number(SCN) in the log.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FIRST_CHANGE or FIRSTCH

First Time attribute

Description
The time of the first SCN in the log.

Type Timestamp

Warehouse name
FIRST_TIME

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Log History attribute group

This attribute group provides log history information from the control file.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Log History attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Record ID attribute: This attribute is a key attribute.

Description
The record ID for the control file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RECORD_ID or RECID

Stamp attribute

Description
The record stamp for the control file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STAMP

Thread attribute

Description
The thread number for the archived log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD or THREAD_NUM

Sequence attribute

Description
The sequence number for the archived log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SEQUENCE or SEQ_NUM

First Change attribute

Description
The lowest system change number(SCN) in the log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FRIST_CHANGE or FIRSTCH

First Time attribute

Description
The time of the first entry (the lowest SCN) in the log.

Type Timestamp

Warehouse name
FIRST_TIME

Next Change attribute

Description
The highest SCN in the log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NEXT_CHANGE or NEXTCH

Resetlogs Change attribute

Description
The resetlogs change number for the database when the log was written.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESETLOGS_CHANGE or RESETCH

Resetlogs Time attribute

Description
The resetlogs time of the database when the log was written.

Type Timestamp

Warehouse name
RESETLOGS_TIME or RESETTIME

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Log History Stat attribute group

This attribute group provides statistics for log history.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Log History Stat attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

DGDATE attribute: This attribute is a key attribute.

Description
The date.

Type String

Warehouse name
DATE or DGDATE

AM12 attribute

Description
The count of logs at 12:00 a.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AM12

AM01 attribute

Description
The count of logs at 1:00 a.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AM01

AM02 attribute

Description
The count of logs at 2:00 a.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AM02

AM03 attribute

Description
The count of logs at 3:00 a.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AM03

AM04 attribute

Description
The count of logs at 4:00 a.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AM04

AM05 attribute

Description
The count of logs at 5:00 a.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AM05

AM06 attribute

Description
The count of logs at 6:00 a.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AM06

AM07 attribute

Description
The count of logs at 7:00 a.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AM07

AM08 attribute

Description
The count of logs at 8:00 a.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AM08

AM09 attribute

Description
The count of logs at 9:00 a.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AM09

AM10 attribute

Description
The count of logs at 10:00 a.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AM10

AM11 attribute

Description
The count of logs at 11:00 a.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AM11

PM12 attribute

Description
The count of logs at 12:00 p.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PM12

PM01 attribute

Description
The count of logs at 1:00 p.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PM01

PM02 attribute

Description
The count of logs at 2:00 p.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PM02

PM03 attribute

Description
The count of logs at 3:00 p.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PM03

PM04 attribute

Description
The count of logs at 4:00 p.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PM04

PM05 attribute

Description
The count of logs at 5:00 p.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PM05

PM06 attribute

Description
The count of logs at 6:00 p.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PM06

PM07 attribute

Description
The count of logs at 7:00 p.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PM07

PM08 attribute

Description
The count of logs at 8:00 p.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PM08

PM09 attribute

Description
The count of logs at 9:00 p.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PM09

PM10 attribute

Description
The count of logs at 10:00 p.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PM10

PM11 attribute

Description
The count of logs at 11:00 p.m.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PM11

Total Count attribute

Description
The total count of logs in the day.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Logfile attribute group

This attribute group displays information about redo log files.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Logfile attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Group attribute: This attribute is a key attribute.

Description
The ID for the redo log group.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GROUP or GROUP_NUM

Status attribute

Description
The status of this log member.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Invalid (INVALID)
- Stale (STALE)
- Deleted (DELETED)
- In use (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS

Type attribute

Description
The type of the log file.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Invalid (INVALID)
- Stale (STALE)
- Deleted (DELETED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TYPE

Member attribute: This attribute is a key attribute.

Description
The name of this redo log member.

Type String

Warehouse name
MEMBER

Is Recovery Dest File attribute

Description
Indicates whether the file is created in the flash recovery area.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_RECOVERY_DEST_FILE or ISRECOF

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Logstdby Process attribute group

This attribute group provides dynamic information about what is happening to the log apply services in the data guard configuration.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Logstdby Process attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Session ID attribute: This attribute is a key attribute.

Description
The session ID for the associated session.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SESSION_ID or SID

Serial attribute: This attribute is a key attribute.

Description
The serial number for the associated session.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SERIAL or SERIAL_NO

Logstdby ID attribute

Description
The slave ID for the parallel query.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOGSTDBY_ID or LOGSTD_ID

SPID attribute

Description
The session process ID.

Type String

Warehouse name
SPID

Type attribute

Description
The role that the process plays in the context of the SQL Apply process.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- COORDINATOR (COORDINATOR)
- APPLIER (APPLIER)
- ANALYZER (ANALYZER)
- READER (READER)
- PREPARER (PREPARER)
- BUILDER (BUILDER)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TYPE

Status Code attribute

Description
The code to identify the operation.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS_CODE or STATUSCODE

Status attribute

Description
The description of the current action for the process.

Type String

Warehouse name
STATUS

High SCN attribute

Description
The highest redo record or LCR that is processed by this process.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
HIGH_SCN

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Logstdby Process Stat attribute group

This attribute group provides statistics for processes that are related to SQL Apply.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Logstdby Process Stat attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBNAME

Database Role attribute

Description
The current role of the monitored database.

Type String

Warehouse name
DATABASE_ROLE or DBROLE

Applier Count attribute

Description
The total count of applier processes.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
APPLIER_COUNT or CAPPLIER

Analyzer Count attribute

Description
The total count of analyzer processes.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ANALYZER_COUNT or CANALYZER

Reader Count attribute

Description
The total count of reader processes.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
READER_COUNT or CREADER

Builder Count attribute

Description
The total count of builder processes.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BUILDER_COUNT or CBUILDER

Preparer Count attribute

Description
The total count of preparer processes.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PREPARER_COUNT or CPREPARER

Coordinator Count attribute

Description
The total count of coordinator processes.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
COORDINATOR_COUNT or CCOORD

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

DG Logstdby Progress attribute group

This attribute group shows the progress of the log apply services for the logical standby database.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the DG Logstdby Progress attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Applied SCN attribute: This attribute is a key attribute.

Description
All transactions with commit SCNs (system change number) that are lower than or equal to this SCN are applied.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
APPLIED_SCN or APPL_SCN

Applied Time attribute

Description
The time and date of the applied SCN.

Type Timestamp

Warehouse name
APPLIED_TIME or APPL_TIME

Restart SCN attribute

Description
During the apply start, the LogMiner does not read any log file with a NEXT_CHANGE# number that is lower than this SCN.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESTART_SCN or REST_SCN

Restart Time attribute

Description
The time and date of the Restart SCN attribute.

Type Timestamp

Warehouse name
RESTART_TIME or REST_TIME

Latest SCN attribute

Description
The highest SCN for all redo records that the logical standby database encounters.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LATEST_SCN

Latest Time attribute

Description
The time and date of the Latest SCN attribute.

Type Timestamp

Warehouse name
LATEST_TIME or LASTEST_TM

Mining SCN attribute

Description
The SCN of the latest redo record that is processed by the builder process.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MINING_SCN

Mining Time attribute

Description
The time and date for the Mining SCN attribute.

Type Timestamp

Warehouse name
MINING_TIME or MINING_TM

Apply Lag (seconds) attribute

Description
The lag time (in seconds) for the SQL Apply process, which is the time between the latest time and the applied time.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
APPLY_LAG

Redo Lag (seconds) attribute

Description
The lag time (in seconds) of the redo, which is the time between the current date and the latest time.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REDO_LAG

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Logstdby State attribute group

This attribute group provides consolidated information about the running state of the logical standby database.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the DG Logstdby State attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Primary DBID attribute: This attribute is a key attribute.

Description
The database ID for the primary database.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PRIMARY_DBID or PRI_DBID

Session ID attribute

Description
The ID for the LogMiner session that is allocated to the SQL Apply process.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SESSION_ID

Realtime Apply attribute

Description
Indicates whether the SQL Apply process is running in the real-time apply mode.

Type String

Warehouse name
REALTIME_APPLY or REALAPPLY

State attribute

Description
The state of the logical standby database.

Type String

Warehouse name
STATE

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Logstdby Statistics attribute group

This attribute group provides information about the logical standby database.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Logstdby Statistics attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Database Name attribute: This attribute is a key attribute.

Description
The name of the monitored database.

Type String

Warehouse name
DATABASE_NAME or DBNAME

Database Unique Name attribute

Description
The unique name of the database.

Type String

Warehouse name
DATABASE_UNIQUE_NAME or DBUNAME

Received Transactions attribute

Description
The total number of transactions that were received from the LogMiner.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RECEIVED_TRANSACTIONS or TXNSREC

Assigned Transactions attribute

Description
The total number of transactions that were assigned to the apply service.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ASSIGNED_TRANSACTIONS or TXNSASS

Applied Transactions attribute

Description
The total number of transactions that were applied.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
APPLIED_TRANSACTIONS or TXNSAPP

Discarded Transactions attribute

Description
The total number of transactions that were discarded during a restart.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISCARDED_TRANSACTIONS or TXNSDIS

Rolled back Transactions attribute

Description
The number of rolled back transactions that were mined.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ROLLED_BACK_TRANSACTIONS or RTXNSM

DDL Transactions Mined attribute

Description
The number of DDL transactions that were mined.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DDL_TRANSACTIONS_MINED or DTXNSM

CTAS Transactions Mined attribute

Description
The number of CTAS transactions that were mined.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CTAS_TRANSACTION_MINED or CTXNSM

Waiting Transactions attribute

Description
The number of large transactions that are waiting to be assigned.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WAITING_TRANSACTIONS or LARTXNS

Redo Mined(bytes) attribute

Description
The total size (in bytes) of redo data that is mined.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REDO_MINED_BYTES or BMINED

Redo Mined(MB) attribute

Description
The total size (in MB) of redo data that is mined.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REDO_MINED or MBMINED

Page Out(bytes) attribute

Description
The total size of the page-out in bytes.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PAGE_OUT or BPAGEOU

Pageout Time (seconds) attribute

Description
The total time of the page-out in seconds.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PAGE_OUT_TIME or PAGETIM

Idle Time(seconds) attribute

Description
The total system idle time in seconds.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IDLE_TIME or IDLETIM

Standby Redo Mined attribute

Description
The count of standby redo logs that were mined.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REDO_LOG_MINED or SLOGMIN

Archived Log Mined attribute

Description
The count of archive logs that were mined.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVED_LOG_MINED or ARCHMIN

Logfile Wait(seconds) attribute

Description
The current log file wait time in seconds.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOGFILE_WAIT or CLOGWAI

Total Logfile Wait(seconds) attribute

Description
The total log file wait time in seconds.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_LOGFILE_WAIT or TOTLWAI

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

DG Logstdby Stats attribute group

This attribute group provides statistics, current state, and status information that are related to the SQL Apply process.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Logstdby Stats attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Name attribute: This attribute is a key attribute.

Description
The name of the statistics, state, or status.

Type String

Warehouse name
NAME

Value attribute

Description
The value of the statistic or the state information.

Type String

Warehouse name
VALUE

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Managed Standby attribute group

This attribute group provides status information about the database processes that are related to the physical standby database.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the DG Managed Standby attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Process attribute: This attribute is a key attribute.

Description
The type of the process.

Type String

Warehouse name
PROCESS

PID attribute: This attribute is a key attribute.

Description
The operating system process identifier for the process.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PID

Status attribute

Description
The status of the process.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Unused (UNUSED)
- Allocated (ALLOCATED)
- Connected (CONNECTED)
- Attached (ATTACHED)

- Idle (IDLE)
- Error (ERROR)
- Opening (OPENING)
- Closing (CLOSING)
- Writing (WRITING)
- Receiving (RECEIVING)
- Announcing (ANNOUNCING)
- Registering (REGISTERING)
- Wait For Log (WAIT_FOR_LOG)
- Wait For Gap (WAIT_FOR_GAP)
- Applying Log (APPLYING_LOG)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS

Client Process attribute

Description
The corresponding primary database process.

Type String

Warehouse name
CLIENT_PROCESS or CLIENTPRO

Client PID attribute

Description
The operating system process identifier for the client process.

Type String

Warehouse name
CLIENT_PID

Client DBID attribute

Description
The database identifier for the primary database.

Type String

Warehouse name
CLIENT_DBID or CLIENTDBID

Group attribute

Description
The number for the standby redo log group.

Type String

Warehouse name
GROUP or GROUP_NUM

Resetlogs ID attribute

Description
The resetlogs identifier for the archived redo log.

Type Integer (64-bit numeric property) with enumerated values. The strings are

displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESETLOGS_ID or RESETLOGID

Thread attribute

Description
The thread number for the archived redo log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD or THREAD_NUM

Sequence attribute

Description
The sequence number for the archived redo log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SEQUENCE or SEQ_NUM

Block attribute

Description
The block number for the last archived redo log that was processed.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCK

Blocks attribute

Description
The size of the archived redo log in 512-byte blocks.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCKS

Delay Minutes attribute

Description
The delay interval for the archived redo log in minutes.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DELAY_MINUTES or DELAY_MINS

Known Agents attribute

Description
The total number of standby agents that are processing an archived redo log.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
KNOWN_AGENTS or KNOWNAGENT

Active Agents attribute

Description
The number of standby database agents that are actively processing an archived redo log.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ACTIVE_AGENTS or ACTAGENT

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Managed Standby Stat attribute group

This attribute group provides statistics for processes that are related to Redo Apply.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Managed Standby Stat attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBNAME

Database Role attribute

Description
The current role of the monitored database.

Type String

Warehouse name
DATABASE_ROLE or DBROLE

RFS Count attribute

Description
The total count of remote file server processes.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RFS_COUNT or RFSCOUNT

Archiver Count attribute

Description
The total count of archiver processes.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVER_COUNT or ARCHCOUNT

MRP Count attribute

Description
The total count of managed recovery processes.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MRP_COUNT or MRPCOUNT

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

DG Parameter attribute group

The DG Parameter attribute group provides information about initialization parameters that are currently in effect for the sessions that are related to the Data Guard.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Parameter attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Parameter Number attribute: This attribute is a key attribute.

Description
The number for the parameter.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PARAMETER_NUMBER or PARANUM

Parameter Name attribute

Description
The name of the parameter.

Type String

Warehouse name
PARAMETER_NAME or PAPANAME

Parameter Type attribute

Description
The type of the parameter.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Boolean (1)
- String (2)
- Integer (3)
- Parameter file (4)
- Reserved (5)
- Big integer (6)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PARAMETER_TYPE or TYPE

Value attribute

Description
If the parameter value is modified within the session, this value is the parameter value for the session; otherwise, this value is the instance-wide parameter value. If the length of the value is more than 256 characters, the value is truncated.

Type String

Warehouse name
VALUE

Display Value attribute

Description
The approximate value of the parameter. For example, if the VALUE column shows a value of 262144 for a big integer parameter, the DISPLAY_VALUE column shows a value of 256K. If the value has more than 256 characters, it is truncated.

Type String

Warehouse name
DISPLAY_VALUE or DISVALUE

Is Default attribute

Description
Indicates whether the parameter is set to the default value, or the parameter value is specified in the parameter file.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- True (TRUE)
- False (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_DEFAULT or ISDEFLT

Is Session Modifiable attribute

Description
Indicates whether the parameter can be changed with the ALTER SESSION command.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- True (TRUE)
- False (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_SESSION_MODIFIABLE or ISEMOLE

Is System Modifiable attribute

Description
Indicates whether the parameter can be changed with the ALTER SYSTEM command and when the change takes effect.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Immediate (IMMEDIATE)
- Deferred (DEFERRED)
- False (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_SYSTEM_MODIFIABLE or ISYMOLE

Is Instance Modifiable attribute

Description
Indicates whether the value of the parameter can be different for every instance, or whether the parameter must have the same value for all Real Application Clusters instances.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- True (TRUE)
- False (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_INSTANCE_MODIFIABLE or ISIMOLE

Is Modified attribute

Description
Indicates whether the parameter is modified after the startup of the instance.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Modified (MODIFIED)
- System Mod (SYSTEM_MOD)
- False (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_MODIFIED or ISMODID

Is Adjusted attribute

Description
Indicates whether the Oracle database adjusts the input value to a more suitable

value. For example, the parameter value must be prime, but if the user entered a non-prime number, the Oracle database adjusts the value to the next prime number.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- TRUE (TRUE)
- FALSE (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_ADJUSTED or ISAJTED

Is Deprecated attribute

Description
Indicates whether the parameter is deprecated.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- True (TRUE)
- False (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_DEPRECATED or DEPRECATED

Is Basic attribute

Description
Indicates whether the parameter is a basic parameter.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- True (TRUE)
- False (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_BASIC or ISBASIC

Description attribute

Description
The description of the parameter. If the value has more than 64 characters, the value is truncated.

Type String

Warehouse name
DESCRIPTION or DESCRIP

Update Comments attribute

Description
The comments that are associated with the most recent update. If the value has more than 64 characters, the value is truncated.

Type String

Warehouse name
UPDATE_COMMENTS or UPDCOT

Hash attribute

Description
The hash value for the parameter name.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
HASH or HASHVAL

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Performance Object Status attribute group

The Performance Object Status attribute group contains information that reflects the status of other attribute groups so you can see the status of all of the performance objects that make up this application all at once. Each of these other performance attribute groups is represented by a row in this table (or other type of view). The status for an attribute group reflects the result of the last attempt to collect data for that attribute group, which allows you to see whether the agent is performing correctly. Unlike other attribute groups, the Performance Object Status attribute group does not reflect the state of the monitored application. This attribute group is most often used to determine why data is not available for one of the performance attribute groups.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Performance Object Status attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Query Name attribute: This attribute is a key attribute.

Description
The name of the attribute group.

Type String

Warehouse name
QUERY_NAME or ATTRGRP

Object Name attribute

Description
The name of the performance object.

Type String

Warehouse name
OBJECT_NAME or OBJNAME

Object Type attribute

Description
The type of the performance object.

Type Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- WMI (0)
- PERFMON (1)
- WMI ASSOCIATION GROUP (2)
- JMX (3)
- SNMP (4)
- SHELL COMMAND (5)
- JOINED GROUPS (6)
- CIMOM (7)
- CUSTOM (8)

- ROLLUP DATA (9)
- WMI REMOTE DATA (10)
- LOG FILE (11)
- JDBC (12)
- CONFIG DISCOVERY (13)
- NT EVENT LOG (14)
- FILTER (15)
- SNMP EVENT (16)
- PING (17)
- DIRECTOR DATA (18)
- DIRECTOR EVENT (19)
- SSH REMOTE SHELL COMMAND (20)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OBJECT_TYPE or OBJTYPE

Object Status attribute

Description
The status of the performance object.

Type Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ACTIVE (0)
- INACTIVE (1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OBJECT_STATUS or OBJSTTS

Error Code attribute

Description
The error code associated with the query.

Type Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO ERROR (0)
- GENERAL ERROR (1)
- OBJECT NOT FOUND (2)
- COUNTER NOT FOUND (3)
- NAMESPACE ERROR (4)
- OBJECT CURRENTLY UNAVAILABLE (5)
- COM LIBRARY INIT FAILURE (6)
- SECURITY INIT FAILURE (7)
- PROXY SECURITY FAILURE (9)
- NO INSTANCES RETURNED (10)
- ASSOCIATOR QUERY FAILED (11)

- REFERENCE QUERY FAILED (12)
- NO RESPONSE RECEIVED (13)
- CANNOT FIND JOINED QUERY (14)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 1 RESULTS (15)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 2 RESULTS (16)
- QUERY 1 NOT A SINGLETON (17)
- QUERY 2 NOT A SINGLETON (18)
- NO INSTANCES RETURNED IN QUERY 1 (19)
- NO INSTANCES RETURNED IN QUERY 2 (20)
- CANNOT FIND ROLLUP QUERY (21)
- CANNOT FIND ROLLUP ATTRIBUTE (22)
- FILE OFFLINE (23)
- NO HOSTNAME (24)
- MISSING LIBRARY (25)
- ATTRIBUTE COUNT MISMATCH (26)
- ATTRIBUTE NAME MISMATCH (27)
- COMMON DATA PROVIDER NOT STARTED (28)
- CALLBACK REGISTRATION ERROR (29)
- MDL LOAD ERROR (30)
- AUTHENTICATION FAILED (31)
- CANNOT RESOLVE HOST NAME (32)
- SUBNODE UNAVAILABLE (33)
- SUBNODE NOT FOUND IN CONFIG (34)
- ATTRIBUTE ERROR (35)
- CLASSPATH ERROR (36)
- CONNECTION FAILURE (37)
- FILTER SYNTAX ERROR (38)
- FILE NAME MISSING (39)
- SQL QUERY ERROR (40)
- SQL FILTER QUERY ERROR (41)
- SQL DB QUERY ERROR (42)
- SQL DB FILTER QUERY ERROR (43)
- PORT OPEN FAILED (44)
- ACCESS DENIED (45)
- TIMEOUT (46)
- NOT IMPLEMENTED (47)
- REQUESTED A BAD VALUE (48)
- RESPONSE TOO BIG (49)
- GENERAL RESPONSE ERROR (50)
- SCRIPT NONZERO RETURN (51)
- SCRIPT NOT FOUND (52)
- SCRIPT LAUNCH ERROR (53)
- CONF FILE DOES NOT EXIST (54)
- CONF FILE ACCESS DENIED (55)
- INVALID CONF FILE (56)

- EIF INITIALIZATION FAILED (57)
- CANNOT OPEN FORMAT FILE (58)
- FORMAT FILE SYNTAX ERROR (59)
- REMOTE HOST UNAVAILABLE (60)
- EVENT LOG DOES NOT EXIST (61)
- PING FILE DOES NOT EXIST (62)
- NO PING DEVICE FILES (63)
- PING DEVICE LIST FILE MISSING (64)
- SNMP MISSING PASSWORD (65)
- DISABLED (66)
- URLS FILE NOT FOUND (67)
- XML PARSE ERROR (68)
- NOT INITIALIZED (69)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ERROR_CODE or ERRCODE

DG Recovery Progress attribute group

This attribute group can be used to track database recovery operations.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Recovery Progress attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Database Name attribute: This attribute is a key attribute.

Description
The name of the monitored database.

Type String

Warehouse name
DATABASE_NAME or DBNAME

Database Unique Name attribute

Description
The unique name of the database.

Type String

Warehouse name
DATABASE_UNIQUE_NAME or DBUNAME

Log Files attribute

Description
The current number of log files.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOG_FILES or LOGFILES

Active Apply Rate attribute

Description
The active apply rate.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ACTIVE_APPLY_RATE or ACTRATE

Average Apply Rate attribute

Description
The average apply rate.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_APPLY_RATE or AVRATE

Redo Applied attribute

Description
The number of redos that are applied.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REDO_APPLIED or REDOAPPL

Last Applied Redo attribute

Description
The last applied redo.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LAST_APPLIED_REDO or LAPREDO

Active Time attribute

Description
The active time of the recovery progress.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ACTIVE_TIME or ACTITME

Apply Time Per Log attribute

Description
The apply time per log.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
APPLY_TIME_PER_LOG or ACTPLOG

Checkpoint Time Per Log attribute

Description
The checkpoint time per log.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CHECKPOINT_TIME_PER_LOG or CHKPLOG

Elapsed Time attribute

Description
The elapsed time of recovery progress.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ELAPSED_TIME or ELPSTIME

Last Applied Redo Time attribute

Description
The time when the last redo was applied.

Type Timestamp

Warehouse name
LAST_APPLIED_REDO_TIME or LAPPTIME

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

DG Standby Log attribute group

This attribute group displays information about standby redo logs.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Standby Log attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Group attribute: This attribute is a key attribute.

Description
The number for the log group.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GROUP or GROUP_NUM

DBID attribute

Description
The database ID for the primary database.

Type String

Warehouse name
DBID

Thread attribute: This attribute is a key attribute.

Description
The thread number for the log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD or THREAD_NUM

Sequence attribute: This attribute is a key attribute.

Description
The sequence number for the log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SEQUENCE or SEQ_NUM

Bytes(Bytes) attribute

Description
The size of the log (in bytes).

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BYTES

MBytes(MB) attribute

Description
The size of the log (in MB).

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MBYTES

Used(bytes) attribute

Description
The number of bytes that are used in the log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USED

Free(bytes) attribute

Description
The number of bytes that are not used in the log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE

Archived attribute

Description
Indicates whether the log is archived.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (Yes)
- NO (No)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVED

Status attribute

Description
The status of the log.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- UNASSIGNED (UNASSIGNED)
- ACTIVE (ACTIVE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS

First Change attribute

Description
The lowest SCN (system change number) in the log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FIRST_CHANGE or FIRSTCH

First Time attribute

Description
The time of the first SCN in the log.

Type Timestamp

Warehouse name
FIRST_TIME

Last Change attribute

Description
The number for the last change that was made for this data file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LAST_CHANGE or LASTCHANGE

Last Time attribute

Description
The timestamp for the last change.

Type Timestamp

Warehouse name
LAST_TIME

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

DG Stats attribute group

This attribute group shows the amount of redo data that is generated from the primary database and missing from the standby database.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Stats attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Database Name attribute: This attribute is a key attribute.

Description
The name of the monitored database.

Type String

Warehouse name
DATABASE_NAME or DBNAME

Database Unique Name attribute

Description
The unique name of the database.

Type String

Warehouse name
DATABASE_UNIQUE_NAME or DBUNAME

Apply Lag (seconds) attribute

Description
The amount of time that the application of redo data in the standby database lags behind the primary database.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
APPLY_LAG or APPLYLAG

Transport Lag (seconds) attribute

Description
The amount of redo data (in seconds) that is not transmitted and not applied.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TRANSPORT_LAG or TRANLAG

Apply Finish Time(seconds) attribute

Description
The estimated time before log apply services finishes applying the redo data.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
APPLY_FINISH_TIME or APPFTIME

Estimated Startup Time(seconds) attribute

Description
The estimated time that the physical standby database was started.

Type String

Warehouse name
ESTIMATED_STARTUP_TIME or ESTRTIME

Standby Open attribute

Description
Indicates whether the physical standby database is opened in read-only mode.

Type String

Warehouse name
STANDBY_OPEN or STDOPEN

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

DG Status attribute group

This attribute group provides messages that were recently written to the alert log or server process trace files that are related to redo transport services.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the DG Status attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Facility attribute

Description
The service that is related to the Data Guard.

Type String

Warehouse name
FACILITY

Severity attribute

Description
The severity of the event.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Informational (Informational)
- Warning (Warning)
- Error (Error)
- Fatal (Fatal)
- Control (Control)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SEVERITY

Destination ID attribute

Description
The ID for the destination that is related to the event.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DESTINATION_ID or DEST_ID

Message Num attribute: This attribute is a key attribute.

Description
The unique number for the event. The number increases chronologically for each event.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MESSAGE_NUM or MESSAGENUM

Error Code attribute

Description
The error code that is associated with the event.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ERROR_CODE

Callout attribute

Description
Reserved for future use.

Type String

Warehouse name
CALLOUT

Message Timestamp attribute

Description
The date of the message.

Type Timestamp

Warehouse name
MESSAGE_TIMESTAMP or MSGTIME

Message attribute

Description
The text message describing the event.

Type String

Warehouse name
MESSAGE

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

Monitored Databases attribute group

This group is the discovery attribute group.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Monitored Databases attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Subnode MSN attribute: This attribute is a key attribute.

Description
This is the Managed System Name of the subnode agent.

Type String

Warehouse name
SUBNODE_MSN or SN_MSN

Subnode Affinity attribute

Description
This is the affinity for the subnode agent.

Type String

Warehouse name
SUBNODE_AFFINITY or SN_AFFIN

Subnode Type attribute: This attribute is a key attribute.

Description
This is the Node Type of this subnode.

Type String

Warehouse name
SUBNODE_TYPE or SN_TYPE

Subnode Resource Name attribute

Description
This is the Resource Name of the subnode agent.

Type String

Warehouse name
SUBNODE_RESOURCE_NAME or SN_RES

Subnode Version attribute

Description
This is the Version of the subnode agent.

Type String

Warehouse name
SUBNODE_VERSION or SN_VER

Performance Object Status attribute group

The Performance Object Status attribute group contains information that reflects the status of other attribute groups so you can see the status of all of the performance objects that make up this application all at once. Each of these other performance attribute groups is represented by a row in this table (or other type of view). The status for an attribute group reflects the result of the last attempt to collect data for that attribute group, which allows you to see whether the agent is performing correctly. Unlike other attribute groups, the Performance Object Status attribute group does not reflect the state of the monitored application. This attribute group is most often used to determine why data is not available for one of the performance attribute groups.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Performance Object Status attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Query Name attribute: This attribute is a key attribute.

Description
The name of the attribute group.

Type String

Warehouse name
QUERY_NAME or ATTRGRP

Object Name attribute

Description
The name of the performance object.

Type String

Warehouse name
OBJECT_NAME or OBJNAME

Object Type attribute

Description
The type of the performance object.

Type Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- WMI (0)
- PERFMON (1)
- WMI ASSOCIATION GROUP (2)
- JMX (3)
- SNMP (4)
- SHELL COMMAND (5)
- JOINED GROUPS (6)
- CIMOM (7)
- CUSTOM (8)
- ROLLUP DATA (9)
- WMI REMOTE DATA (10)
- LOG FILE (11)
- JDBC (12)
- CONFIG DISCOVERY (13)
- NT EVENT LOG (14)
- FILTER (15)
- SNMP EVENT (16)
- PING (17)
- DIRECTOR DATA (18)
- DIRECTOR EVENT (19)
- SSH REMOTE SHELL COMMAND (20)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OBJECT_TYPE or OBJTYPE

Object Status attribute

Description
The status of the performance object.

Type Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ACTIVE (0)
- INACTIVE (1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OBJECT_STATUS or OBJSTTS

Error Code attribute

Description
The error code associated with the query.

Type Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO ERROR (0)
- GENERAL ERROR (1)
- OBJECT NOT FOUND (2)
- COUNTER NOT FOUND (3)
- NAMESPACE ERROR (4)
- OBJECT CURRENTLY UNAVAILABLE (5)
- COM LIBRARY INIT FAILURE (6)
- SECURITY INIT FAILURE (7)
- PROXY SECURITY FAILURE (9)
- NO INSTANCES RETURNED (10)
- ASSOCIATOR QUERY FAILED (11)
- REFERENCE QUERY FAILED (12)
- NO RESPONSE RECEIVED (13)
- CANNOT FIND JOINED QUERY (14)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 1 RESULTS (15)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 2 RESULTS (16)
- QUERY 1 NOT A SINGLETON (17)
- QUERY 2 NOT A SINGLETON (18)
- NO INSTANCES RETURNED IN QUERY 1 (19)
- NO INSTANCES RETURNED IN QUERY 2 (20)
- CANNOT FIND ROLLUP QUERY (21)
- CANNOT FIND ROLLUP ATTRIBUTE (22)
- FILE OFFLINE (23)
- NO HOSTNAME (24)
- MISSING LIBRARY (25)
- ATTRIBUTE COUNT MISMATCH (26)
- ATTRIBUTE NAME MISMATCH (27)
- COMMON DATA PROVIDER NOT STARTED (28)
- CALLBACK REGISTRATION ERROR (29)
- MDL LOAD ERROR (30)
- AUTHENTICATION FAILED (31)
- CANNOT RESOLVE HOST NAME (32)
- SUBNODE UNAVAILABLE (33)
- SUBNODE NOT FOUND IN CONFIG (34)
- ATTRIBUTE ERROR (35)
- CLASSPATH ERROR (36)
- CONNECTION FAILURE (37)
- FILTER SYNTAX ERROR (38)
- FILE NAME MISSING (39)
- SQL QUERY ERROR (40)
- SQL FILTER QUERY ERROR (41)
- SQL DB QUERY ERROR (42)

- SQL DB FILTER QUERY ERROR (43)
- PORT OPEN FAILED (44)
- ACCESS DENIED (45)
- TIMEOUT (46)
- NOT IMPLEMENTED (47)
- REQUESTED A BAD VALUE (48)
- RESPONSE TOO BIG (49)
- GENERAL RESPONSE ERROR (50)
- SCRIPT NONZERO RETURN (51)
- SCRIPT NOT FOUND (52)
- SCRIPT LAUNCH ERROR (53)
- CONF FILE DOES NOT EXIST (54)
- CONF FILE ACCESS DENIED (55)
- INVALID CONF FILE (56)
- EIF INITIALIZATION FAILED (57)
- CANNOT OPEN FORMAT FILE (58)
- FORMAT FILE SYNTAX ERROR (59)
- REMOTE HOST UNAVAILABLE (60)
- EVENT LOG DOES NOT EXIST (61)
- PING FILE DOES NOT EXIST (62)
- NO PING DEVICE FILES (63)
- PING DEVICE LIST FILE MISSING (64)
- SNMP MISSING PASSWORD (65)
- DISABLED (66)
- URLS FILE NOT FOUND (67)
- XML PARSE ERROR (68)
- NOT INITIALIZED (69)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ERROR_CODE or ERRCODE

RDB Active Instance attribute group

The RDB Active Instance attribute group provides information about the state of active instances.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Active Instance attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

SID attribute

Description
The Oracle system identifier.

Type String

Warehouse name
SID

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type String

Warehouse name
INSTANCE_ID or INSTNUM

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or INSTNAME

Compatible Version attribute

Description
The compatible version of the instance.

Type String

Warehouse name
COMPATIBLE_VERSION or COMPVER

Status attribute

Description
The status of the instance; the valid values are inactive, started, mounted, open, and open migrate.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- OPEN (OPEN)
- INACTIVE (INACTIVE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Alert Log Details attribute group

The RDB Alert Log Details attribute group provides information about message characteristics in the alert log including message timestamp, severity level, message category, message number, message ID, and message text.

Historical group
This attribute group is not eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Alert Log Details attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Severity Level attribute

Description
The severity level of the message.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Error (1)
- Warning (2)
- Info (3)
- Misc (4)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Database Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Message Category attribute

Description
The category of the message.

Type String

Message Number attribute

Description
The number of the message.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Message ID attribute: This attribute is a key attribute.

Description
The unique identifier of the message.

Type String

Message Text attribute

Description
The detailed text of the message.

Type String

Message Timestamp attribute: This attribute is a key attribute.

Description
The date and time when the message occurred.

Type Timestamp

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

RDB Alert Log Summary attribute group

The RDB Alert Log Summary attribute group provides aggregate alert log statistics for errors and warnings in the alert log.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RDB Alert Log Summary attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Database Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or INSTNAME

Alert Log Path attribute

Description
The full path of the alert log for the instance.

Type String

Warehouse name
ALERT_LOG_PATH or LOGPATH

Alert Log Readable attribute

Description
Indicates whether the alert log file is readable.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (Yes)
- No (No)
- Unknown (Unknown)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ALERT_LOG_READABLE or LOGREAD

Total Errors Since Startup attribute

Description
The total number of errors that are reported since the startup of the agent.

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_ERRORS_SINCE_STARTUP or TOTERR

Total Warnings Since Startup attribute

Description
The total number of warnings that are reported since the startup of the agent.

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_WARNINGS_SINCE_STARTUP or TOTWARN

Timestamp Last Search attribute

Description
The date and time when the last search was performed.

Type Timestamp

Warehouse name
LAST_SEARCH_TIMESTAMP or LSTTIME

Total Errors For Interval attribute

Description
The total number of errors that are reported during the last interval.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_ERRORS_FOR_INTERVAL or LSTERR

Total Warnings For Interval attribute

Description
The total number of warnings that are reported during the last interval.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_WARNINGS_FOR_INTERVAL or LSTWARN

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Archive Dest attribute group

The RDB Archive Destination attribute group provides information about all the destinations in the data guard configuration for the current instance, including current value, status, and other items for each destination.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Archive Dest attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are

displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INST_ID

Destination ID attribute: This attribute is a key attribute.

Description
The identifier for the log archive destination parameter; the valid value range is from 1 to 10.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DESTINATION_ID or DEST_ID

Destination Name attribute: This attribute is a key attribute.

Description
The name of the log archive destination parameter.

Type String

Warehouse name
DESTINATION_NAME or DEST_NAME

Destination Status attribute

Description
Indicates the status of the destination.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Valid (VALID)
- Inactive (INACTIVE)
- Deferred (DEFERRED)
- Error (ERROR)
- Disabled (DISABLED)
- BAD PARAM (BAD PARAM)
- Alternate (ALTERNATE)
- Full (FULL)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DESTINATION_STATUS or STATUS

Target attribute

Description
Indicates whether the archive destination is local or remote to the primary database.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- PRIMARY (PRIMARY)
- STANDBY (STANDBY)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TARGET

Archiver attribute

Description
Indicates the archiver process that is relative to the database where the query is issued.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ARCn (ARCn)
- FOREGROUND (FOREGROUND)
- LGWR (LGWR)
- RFS (RFS)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVER

Schedule attribute

Description
Indicates whether archiving this destination is INACTIVE, PENDING, ACTIVE, or LATENT.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Inactive (INACTIVE)
- Pending (PENDING)
- Active (ACTIVE)
- Latent (LATENT)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SCHEDULE

Destination attribute

Description
The location where the archived redo logs are to be archived.

Type String

Warehouse name
DESTINATION or DEST

Log Sequence attribute

Description
The sequence number for the last archived redo log to be archived.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOG_SEQUENCE or LOG_SEQU

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Archive Overview attribute group

The RDB Archive Overview attribute group provides log file information from the control file.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RDB Archive Overview attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INST_ID

Group Number attribute: This attribute is a key attribute.

Description
The group number for the log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GROUP_NUMBER or GROUP_NUM

Thread Number attribute: This attribute is a key attribute.

Description
The thread number for the log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_NUMBER or THREAD_NUM

Sequence Number attribute: This attribute is a key attribute.

Description
The sequence number for the log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SEQUENCE_NUMBER or SEQU_NUM

Log Size (KB) attribute

Description
The size (in KB) of the log.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOG_SIZE_KB or LOGSIZEKB

Log Size (MB) attribute

Description
The size (in MB) of the log.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOG_SIZE_MB or LOGSIZEMB

Number of Members attribute

Description
The number of members in the log group.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUMBER_OF_MEMBERS or MEMBERS

Archive Status attribute

Description
The status of the archive.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVE_STATUS or ARCHIVED

Log Status attribute

Description
The status of the log.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Unused (UNUSED)
- Current (CURRENT)
- Active (ACTIVE)
- Clearing (CLEARING)
- Clearing Current (CLEARING_CURRENT)
- Inactive (INACTIVE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOG_STATUS or STATUS

Lowest System Change Number attribute

Description
The lowest SCN in the log.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOWEST_SYSTEM_CHANGE_NUMBER or FIRCHANNUM

First SCN Time attribute

Description
The time of the first SCN in the log.

Type Timestamp

Warehouse name
FIRST_SCN_TIME or FIRST_TIME

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB ASM Client attribute group

The ASM Client attribute group provides information about ASM client characteristics. It shows one row for each open ASM disk group.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB ASM Client attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Group Number attribute: This attribute is a key attribute.

Description
The number of disk groups that are being used by the client database instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GROUP_NUMBER or GRPNUM

Instance Name attribute: This attribute is a key attribute.

Description
The identifier for the database client instance.

Type String

Warehouse name
INSTANCE_NAME or INTNAME

Database Name attribute: This attribute is a key attribute.

Description
The unique database name of the database client instance.

Type String

Warehouse name
DATABASE_NAME or DBNAME

Client Status attribute

Description
The status of the client connection.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- CONNECTED (CONNECTED)
- DISCONNECTED (DISCONNECTED)
- BROKEN (BROKEN)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CLIENT_STATUS or STATUS

Software Version attribute

Description
The software version number for the database, or the software version number for the ASM instance for the selected disk group connection. This attribute is available in Oracle 10.2 or later versions.

Type String

Warehouse name
SOFTWARE_VERSION or SWVER

Compatible Version attribute

Description
The compatibility setting of the database, or the compatibility setting of the ASM instance for the selected disk group connection. This attribute is available in Oracle 10.2 or later versions.

Type String

Warehouse name
COMPATIBLE_VERSION or COMPVER

ASM Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
ASM_INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
ASM_DATABASE_NAME or DBUNIQNAME

RDB ASM Disk attribute group

The RDB ASM Disk attribute group provides statistics for disks in disk groups that are currently in use by the database instance.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB ASM Disk attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Group Number attribute: This attribute is a key attribute.

Description
The number for the disk group that contains the disk.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GROUP_NUMBER or GRPNUM

Disk Number attribute: This attribute is a key attribute.

Description
The number that is assigned to the disk within its disk group.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_NUMBER or DISKNUM

Disk ID attribute

Description
The disk ID that is identified with the instance ID, group number, and disk number.

Type String

Warehouse name
DISK_ID or DISKID

Compound Index attribute

Description
A 32-bit number consisting of a disk group number in the high-order 8 bits and a disk number in the low-order 24 bits.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
COMPOUND_INDEX or COMPINX

Incarnation Number attribute

Description
The incarnation number for the disk.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INCARNATION_NUMBER or INCARTN

Mount Status attribute

Description
The per-instance status of the disk that is relative to group mounts.

Type String

Warehouse name
MOUNT_STATUS or MUTSTUS

Header Status attribute

Description
The per-instance status of the disk as seen by disk discovery.

Type String

Warehouse name
HEADER_STATUS or HEDSTUS

Mode Status attribute

Description
The global status for the kinds of I/O requests that are allowed to reach the disk.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ONLINE (ONLINE)
- OFFLINE (OFFLINE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MODE_STATUS or MODSTUS

Disk State attribute

Description
The global state of the disk with respect to the disk group.

Type String

Warehouse name
DISK_STATE or STATE

Redundancy attribute

Description
The hardware redundancy of the disk.

Type String

Warehouse name
REDUNDANCY or REDDCY

Library Name attribute

Description
The name of the library that discovered the disk.

Type String

Warehouse name
LIBRARY_NAME or LIBRY

Total Capacity (MB) attribute

Description
The total capacity (in MB) of the disk.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_CAPACITY_MB or TOTALMB

Unused Capacity (MB) attribute

Description
The unused capacity (in MB) of the disk.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
UNUSED_CAPACITY_MB or FREEMB

Disk Size (MB) attribute

Description
The size of the disk (in MB) as reported by the host operating system. This attribute is available in Oracle 11.1 or later versions.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_SIZE_MB or OSMB

% Free attribute

Description
The percentage of unused disk capacity.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_PERCENT or FREEPET

Disk Name attribute: This attribute is a key attribute.

Description
The name of the disk.

Type String

Warehouse name
DISK_NAME or NAME

Failure Group attribute

Description
The name of the failure group that contains the disk.

Type String

Warehouse name
FAILURE_GROUP or FAILGRP

Label attribute

Description
The disk label portion of the operating system name for the disk that is returned by disk discovery.

Type String

Warehouse name
LABEL

Path attribute

Description
The path name portion of the operating system name for the disk that is returned by disk discovery.

Type String

Warehouse name
PATH

UDID attribute

Description
The unique device ID portion of the operating system name for the disk that is returned by disk discovery.

Type String

Warehouse name
UDID

Product attribute

Description
The name of the manufacturer and the name of the product. All disks with the same product ID have the same performance and reliability characteristics. This attribute is available in Oracle 10.2 or later versions.

Type String

Warehouse name
PRODUCT

Create Date attribute

Description
The date and time when the disk was added to the disk group.

Type Timestamp

Warehouse name
CREATE_DATE or CREDATE

Mount Date attribute

Description
The date and time when the disk was mounted by the first instance.

Type Timestamp

Warehouse name
MOUNT_DATE or MUTDATE

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB ASM DiskGroup attribute group

The RDB ASM DiskGroup attribute group provides information about disk groups that are mounted by the ASM instance with which the database instance communicates.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB ASM DiskGroup attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Group Number attribute: This attribute is a key attribute.

Description
The cluster-wide number that is assigned to the disk group.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GROUP_NUMBER or GRPNUM

Group ID attribute

Description
The group ID that includes the instance ID and group number.

Type String

Warehouse name
GROUP_ID or GRPID

Name attribute: This attribute is a key attribute.

Description
The name of the disk group.

Type String

Warehouse name
NAME

Sector Size (Bytes) attribute

Description
The size (in bytes) of the physical block.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SECTOR_SIZE_BYTES or SECSIZE

Block Size (Bytes) attribute

Description
The block size (in bytes) of the ASM metadata.

Type Integer (64-bit numeric property) with enumerated values. The strings are

displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCK_SIZE_BYTES or BLKSIZE

Allocation Unit Size (Bytes) attribute

Description
The size (in bytes) of the allocation unit.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ALLOCATION_UNIT_SIZE_BYTES or ALUSIZE

State attribute

Description
The state of the disk group that is relative to the instance.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- CONNECTED (CONNECTED)
- BROKEN (BROKEN)
- UNKNOWN (UNKNOWN)
- DISMOUNTED (DISMOUNTED)
- MOUNTED (MOUNTED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATE

Type attribute

Description
The redundancy type of the disk group.

Type String

Warehouse name
TYPE

Total Capacity (MB) attribute

Description
The total capacity (in MB) of the disk group.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_CAPACITY_MB or TOTALMB

Unused Capacity (MB) attribute

Description
The unused capacity (in MB) of the disk group.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_CAPACITY_MB or FREEMB

% Free attribute

Description
The percentage of unused capacity of the disk group.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_PERCENT or FREEPET

Required Capacity (MB) attribute

Description
The amount of space (in MB) that is required to be available in a specific disk group to restore redundancy after disk failures. The amount of space that is displayed in this column takes mirroring effects into account.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REQUIRED_CAPACITY_MB or REQMFMB

Usable Capacity (MB) attribute

Description
The amount of free space (in MB) that can be used safely when taking mirroring into account, and that can restore redundancy after disk failures.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USABLE_CAPACITY_MB or USFMB

% Usable attribute

Description
The percentage of free space that can be used safely when taking mirroring into account, and that can restore redundancy after disk failures.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USABLE_PERCENT or USEPET

Offline Disk Number attribute

Description
The number of disks in the disk group that are currently offline. This attribute is available in Oracle 10.2 or later versions.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OFFLINE_DISK_NUMBER or OFLEDK

Unbalanced attribute

Description
Indicates whether the disk group requires rebalancing. For example, if the instance crashes while a rebalancing operation is pending, the attribute value is Y. This attribute is available in Oracle 10.2.

Type String

Warehouse name
UNBALANCED or UNBALED

Compatibility attribute

Description
The minimum software version that is required for an ASM instance to mount this disk group. This attribute is available in Oracle 10.2 or later versions.

Type String

Warehouse name
COMPATIBILITY or COMPATY

Database Compatibility attribute

Description
The minimum software version that is required for a database instance to use files in this disk group.

Type String

Warehouse name
DATABASE_COMPATIBILITY or DBCOMTY

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB ASM DiskGroupIOSTAT attribute group

The RDB subnode ASM Disk Group I/O Statistics attribute group provides I/O statistics for ASM disk groups that are currently in use by the database instance.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB ASM DiskGroupIOSTAT attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Group Number attribute: This attribute is a key attribute.

Description
The number for the disk group that contains the disk.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GROUP_NUMBER or GRPNUM

Group ID attribute

Description
The group ID that includes the instance ID and group number.

Type String

Warehouse name
GROUP_ID or GRPID

Group Name attribute: This attribute is a key attribute.

Description
The name of the disk group.

Type String

Warehouse name
GROUP_NAME or GRPNAME

Read Request attribute

Description
The total number of I/O read requests for the disk group.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
READ_REQUEST or READS

Write Request attribute

Description
The total number of I/O write requests for the disk group.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WRITE_REQUEST or WRITES

Read Error attribute

Description
The total number of failed I/O read requests for the disk group.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
READ_ERROR or READERR

Write Error attribute

Description
The total number of failed I/O write requests for the disk group.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WRITE_ERROR or WRITERR

Read Time (ms) attribute

Description
The total I/O time of read requests for the disk group if the TIMED_STATISTICS initialization parameter is set to TRUE; the value is 0 if the TIMED_STATISTICS parameter is set to FALSE.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
READ_TIME_MS or READTME

Write Time (ms) attribute

Description
The total I/O time of write requests for the disk group if the TIMED_STATISTICS initialization parameter is set to TRUE; the value is 0 if the TIMED_STATISTICS parameter is set to FALSE.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WRITE_TIME_MS or WRITIME

Total Read (Bytes) attribute

Description
The total number of bytes that are read from the disk group.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_READ_BYTES or BYTREAD

Total Read (KB) attribute

Description
The total number of bytes (in KB) that are read from the disk group.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_READ_KB or BYTRDKB

Total Read (MB) attribute

Description
The total number of bytes (in MB) that are read from the disk group.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_READ_MB or BYTRDMB

Total Written (Bytes) attribute

Description
The total number of bytes that are written to the disk group.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_WRITTEN_BYTES or BYTWRIT

Total Written (KB) attribute

Description
The total number of bytes (in KB) that are written to the disk group.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_WRITTEN_KB or BYTWRKB

Total Written (MB) attribute

Description
The total number of bytes (in MB) that are written to the disk group.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_WRITTEN_MB or BYTWRMB

Response Time (ms) attribute

Description
The average response time (in milliseconds) for I/O read and write operations.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESPONSE_TIME_MS or RESTIME

Average Read Time (ms) attribute

Description
The average read time (in milliseconds).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_READ_TIME_MS or AVGREDT

Average Write Time (ms) attribute

Description
The average write time (in milliseconds).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_WRITE_TIME_MS or AVGWRET

Disk Read (Bytes/ms) attribute

Description
The average disk group read (in bytes) per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_READ_BYTES_MS or AVGDRBS

Disk Read (KB/ms) attribute

Description
The average disk group read (in KB) per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_READ_KB_MS or AVGDRBK

Disk Read (MB/ms) attribute

Description
The average disk group read (in MB) per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_READ_MB_MS or AVGDRBM

Disk Written (Bytes/ms) attribute

Description
The average disk group written (in bytes) per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_WRITTEN_BYTES_MS or AVGDWBS

Disk Written (KB/ms) attribute

Description
The average disk group written (in KB) per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_WRITTEN_KB_MS or AVGDWBK

Disk Written (MB/ms) attribute

Description
The average disk group written (in MB) per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_WRITTEN_MB_MS or AVGDWBM

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB ASM DiskIOSTAT attribute group

The RDB subnode ASM Disk I/O Statistics attribute group provides I/O statistics for ASM disks in disk groups that are currently in use by the database instance.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB ASM DiskIOSTAT attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Group Number attribute: This attribute is a key attribute.

Description
The number for the disk group that contain the disk.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GROUP_NUMBER or GRPNUM

Disk Number attribute: This attribute is a key attribute.

Description
The number that is assigned to the disk within its disk group.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_NUMBER or DISKNUM

Disk ID attribute

Description
The disk ID that is identified with the instance ID, group number, and disk number.

Type String

Warehouse name
DISK_ID or DISKID

Read Request attribute

Description
The total number of I/O read requests for the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
READ_REQUEST or READS

Write Request attribute

Description
The total number of I/O write requests for the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WRITE_REQUEST or WRITES

Read Error attribute

Description
The total number of failed I/O read requests for the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
READ_ERROR or READERR

Write Error attribute

Description
The total number of failed I/O write requests for the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WRITE_ERROR or WRITERR

Read Time (ms) attribute

Description
The total I/O time of read requests for the disk if the TIMED_STATISTICS initialization parameter is set to TRUE; the value is 0 if the TIMED_STATISTICS parameter is set to FALSE.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
READ_TIME_MS or READTME

Write Time (ms) attribute

Description
The total I/O time of write requests for the disk if the TIMED_STATISTICS initialization parameter is set to TRUE; the value is 0 if the TIMED_STATISTICS parameter is set to FALSE.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WRITE_TIME_MS or WRITIME

Total Read (Bytes) attribute

Description
The total number of bytes that are read from the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_READ_BYTES or BYTREAD

Total Read (KB) attribute

Description
The total number of bytes (in KB) that are read from the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_READ_KB or BYTRDKB

Total Read (MB) attribute

Description
The total number of bytes (in MB) that are read from the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_READ_MB or BYTRDMB

Total Written (Bytes) attribute

Description
The total number of bytes that are written to the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_WRITTEN_BYTES or BYTWRIT

Total Written (KB) attribute

Description
The total number of bytes (in KB) that are written to the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_WRITTEN_KB or BYTWRKB

Total Written (MB) attribute

Description
The total number of bytes (in MB) that are written to the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_WRITTEN_MB or BYTWRMB

Response Time (ms) attribute

Description
The average response time (in milliseconds) of I/O read and write operations.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESPONSE_TIME_MS or REPTIME

Average Read Time (ms) attribute

Description
The average read time (in milliseconds).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_READ_TIME_MS or AVGREDT

Average Write Time (ms) attribute

Description
The average write time (in milliseconds).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_WRITE_TIME_MS or AVGWRET

Disk Read (Bytes/ms) attribute

Description
The average disk read (in bytes) per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_READ_BYTES_MS or AVGDRBS

Disk Read (KB/ms) attribute

Description
The average disk read (in KB) per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_READ_KB_MS or AVGDRBK

Disk Read (MB/ms) attribute

Description
The average disk read (in MB) per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_READ_MB_MS or AVGDRBM

Disk Written (Bytes/ms) attribute

Description
The average disk written (in bytes) per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_WRITTEN_BYTES_MS or AVGDWBS

Disk Written (KB/ms) attribute

Description
The average disk written (in KB) per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_WRITTEN_KB_MS or AVGDWBK

Disk Written (MB/ms) attribute

Description
The average disk written (in MB) per millisecond.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_WRITTEN_MB_MS or AVGDWBM

Disk Name attribute: This attribute is a key attribute.

Description
The name of the disk.

Type String

Warehouse name
DISK_NAME or NAME

Failure Group attribute

Description
The name of the failure group to which the disk belongs.

Type String

Warehouse name
FAILURE_GROUP or FAILGRP

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB ASM Template attribute group

The RDB subnode ASM Template attribute group provides statistics for the template present in every disk group that is mounted by the ASM instance with which the database instance communicates.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB ASM Template attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Group Number attribute: This attribute is a key attribute.

Description
The number of the disk group that owns the template.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GROUP_NUMBER or GRPNUM

Entry Number attribute: This attribute is a key attribute.

Description
The number for the template.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ENTRY_NUMBER or ENYNUM

Redundancy attribute

Description
The redundancy of the template.

Type String

Warehouse name
REDUNDANCY or REDUNCY

Stripe Type attribute

Description
Indicates how the template is stripped.

Type String

Warehouse name
STRIPE_TYPE or STRIPE

System attribute

Description
Indicates whether the template is a system template.

Type String

Warehouse name
SYSTEM

Template Name attribute: This attribute is a key attribute.

Description
The name of the template.

Type String

Warehouse name
TEMPLATE_NAME or NAME

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB BGProcess Stats attribute group

This attribute group provides statistics for background processes running in the database.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB BGProcess Stats attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Process Name attribute: This attribute is a key attribute.

Description
The name of the background process.

Type String

Warehouse name
PROCESS_NAME or PNAME

Process Count attribute

Description
The count of running background processes.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PROCESS_COUNT or PCOUNT

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INST_ID

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Buffer Cache Detail attribute group

The RDB Buffer Cache Detail attribute group provides statistics for all buffer pools that are available for the instance.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Buffer Cache Detail attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Buffer Pool ID attribute: This attribute is a key attribute.

Description
The identifier for the buffer pool.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BUFFER_POOL_ID or BUFPLID

Buffer Pool Name attribute: This attribute is a key attribute.

Description
The name of the buffer pool.

Type String

Warehouse name
BUFFER_POOL_NAME or BUFNAME

Maximum Set Size attribute

Description
The maximum set size of the buffer pool.

Type Integer (64-bit numeric property) with enumerated values. The strings are

displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_SET_SIZE or SETSIZE

Replace Number attribute

Description
The number of buffers on the replacement list.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REPLACE_NUMBER or NUMREPL

Write Number attribute

Description
The number of buffers on the write list.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WRITE_NUMBER or NUMWRTE

Set Number attribute

Description
The number of buffers in the set.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SET_NUMBER or NUMSET

Gotten Number attribute

Description
The number of buffers that are gotten by the set.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GOTTEN_NUMBER or BUFGOT

Written Number attribute

Description
The total number of buffers that are written by the set.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WRITTEN_NUMBER or SUMWRTE

Scanned Number attribute

Description
The total number of buffers that are scanned in the set.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SCANNED_NUMBER or SUMSCAN

Free Wait attribute

Description
The number of times that the Free Buffer Wait event occurred.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_WAIT or FRBWAIT

Write Wait attribute

Description
The number of times that the Write Complete Wait event occurred.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WRITE_WAIT or WRCWAIT

Busy Wait attribute

Description
The number of times that the Buffer Busy Wait event occurred.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BUSY_WAIT or BUBWAIT

Free Inspected attribute

Description
The number of free buffers that are inspected.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_INSPECTED or FRBINSD

Dirty Inspected attribute

Description
The number of dirty buffers that are inspected.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DIRTY_INSPECTED or DIBINSD

Blocks Changed attribute

Description
The number of database blocks that are changed.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCKS_CHANGED or DBLKCHG

Blocks Gotten attribute

Description
The number of database blocks that are gotten.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCKS_GOTTEN or DBLKGET

Consistent Gets attribute

Description
The Consistent Gets statistic for buffer cache.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CONSISTENT_GETS or CONGETS

Physical Reads attribute

Description
The total number of data blocks that read from the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PHYSICAL_READS or PHYREAD

Physical Writes attribute

Description
The total number of data blocks that were written to the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PHYSICAL_WRITES or PHYWRTE

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Buffer Cache Ratio attribute group

The RDB Buffer Cache Ratio attribute group provides information about the ratio of all buffer pools that are available for the instance.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Buffer Cache Ratio attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Physical Reads attribute

Description
The total number of data blocks that read from the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PHYSICAL_READS or PHYREAD

Database Block Gets attribute

Description
The number of times a current block was requested.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DATABASE_BLOCK_GETS or BLKGETS

Consistent Gets attribute

Description
The Consistent Gets statistic.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CONSISTENT_GETS or CONGETS

% Buffer Cache Hit attribute

Description
The percentage of reads from the buffer cache in all reads.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BUFFER_CACHE_HIT_RATIO or HITRATIO

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Cache Fusion Write attribute group

The RDB Cache Fusion Write attribute group provides statistics for physical writes, fusion writes, and the ratio of fusion writes against physical writes.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Cache Fusion Write attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or INSTNAME

DBWR Fusion Write attribute

Description
The number of blocks that fusion writes. Only aging, cache replacement, or checkpoints must be written to disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DBWR_FUSION_WRITE or DBWR

Physical Writes attribute

Description
The number of blocks that the database physically writes.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PHYSICAL_WRITES or PHYWRITE

Ratio (%) attribute

Description
The ratio (as a percentage) of fusion writes against physical writes, a lower ration is better.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RATIO_FUSION_AGAINST_PHYSICAL_WRITE or DBWRRATIO

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Cluster AVG BLKS attribute group

The RDB Cluster Average Blocks attribute group provides information about the top 10 clusters with the highest average block number.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Cluster AVG BLKS attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Owner attribute: This attribute is a key attribute.

Description
The owner of the cluster.

Type String

Warehouse name
OWNER

Cluster Name attribute: This attribute is a key attribute.

Description
The name of the cluster.

Type String

Warehouse name
CLUSTER_NAME or CLUNAME

Tablespace Name attribute

Description
The name of the table space containing the cluster.

Type String

Warehouse name
TABLESPACE_NAME or TSNAME

Average Blocks Per Key attribute

Description
The number of blocks in the table divided by the number of cluster keys.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_BLOCKS_PER_KEY or AVGBKPKEY

Show Name attribute

Description
The combination of Owner and Cluster Name.

Type String

Warehouse name
SHOW_NAME or SHOWNAME

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Cluster Size attribute group

The RDB Cluster Size attribute group provides information about the top 10 largest clusters that are not in the table spaces with the name of SYSAUX, SYSTEM, or NULL in the database. The value must be greater than 0.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Cluster Size attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Owner attribute: This attribute is a key attribute.

Description
The owner of the cluster.

Type String

Warehouse name
OWNER

Cluster Name attribute: This attribute is a key attribute.

Description
The name of the cluster.

Type String

Warehouse name
CLUSTER_NAME or CLUNAME

Tablespace Name attribute

Description
The name of the table space containing the cluster.

Type String

Warehouse name
TABLESPACE_NAME or TSNAME

Cluster Size (Bytes) attribute

Description
The size of the cluster (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CLUSTER_SIZE_BYTES or SIZEBYTES

Cluster Size (KB) attribute

Description
The size of the cluster (in KB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CLUSTER_SIZE_KB or SIZEKB

Cluster Size (MB) attribute

Description
The size of the cluster (in MB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CLUSTER_SIZE_MB or SIZEMB

Show Name attribute

Description
The combination of Owner and Cluster Name.

Type String

Warehouse name
SHOW_NAME or SHOWNAME

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Clusters attribute group

The RDB Clusters attribute group provides information about all clusters in the database.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Clusters attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Owner attribute: This attribute is a key attribute.

Description
The owner of the cluster.

Type String

Warehouse name
OWNER

Cluster Name attribute: This attribute is a key attribute.

Description
The name of the cluster.

Type String

Warehouse name
CLUSTER_NAME or CLUNAME

Tablespace Name attribute

Description
The name of the table space containing the cluster.

Type String

Warehouse name
TABLESPACE_NAME or TSNAME

Free Space Percentage (%) attribute

Description
The minimum percentage of free space in a block.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PCT_FREE or FREEPCT

Used Space Percentage (%) attribute

Description
The minimum percentage of used space in a block.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PCT_USED or USEDPCT

Key Size attribute

Description
The estimated size of the cluster key plus associated rows.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
KEY_SIZE or KEYSIZE

Initial Transactions attribute

Description
The initial number of transactions.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INITIAL_TRANSACTIONS or INITRANS

Max Transactions attribute

Description
The maximum number of transactions.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_TRANSACTIONS or MAXTRANS

Initial Extent Size (Bytes) attribute

Description
The size of the initial extent in bytes.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INITIAL_EXTENT_SIZE_BYTES or INIEXTENT

Initial Extent Size (KB) attribute

Description
The size of the initial extent in KB.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INITIAL_EXTENT_SIZE_KB or INIEXTKB

Initial Extent Size (MB) attribute

Description
The size of the initial extent in MB.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INITIAL_EXTENT_SIZE_MB or INIEXTMB

Next Extent Size (Bytes) attribute

Description
The size of the secondary extent in bytes.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NEXT_EXTENT_SIZE_BYTES or NEXTEXTENT

Next Extent Size (KB) attribute

Description
The size of the secondary extent in KB.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NEXT_EXTENT_SIZE_KB or NEXTEXTKB

Next Extent Size (MB) attribute

Description
The size of the secondary extent in MB.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NEXT_EXTENT_SIZE_MB or NEXTEXTMB

Min Extents attribute

Description
The minimum number of extents that are allowed in the segment.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MIN_EXTENTS or MINEXTENT

Max Extents attribute

Description
The maximum number of extents that are allowed in the segment.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_EXTENTS or MAXEXTENT

Increase Percentage (%) attribute

Description
The percentage of increase in extent size.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INCREASE_PERCENTAGE or INCRESPCT

Freelists attribute

Description
The number of process free lists that are allocated to this segment.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREELISTS

Freelists Groups attribute

Description
The number of free list groups that are allocated to this segment.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREELISTS_GROUPS or FRLIGRP

Average Blocks Per Key attribute

Description
The number of blocks in the table divided by the number of cluster keys.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_BLOCKS_PER_KEY or AVGBKPKEY

Cluster Type attribute

Description
The type of the cluster.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Index (INDEX)
- Hash (HASH)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CLUSTER_TYPE or CLUTYPE

Function attribute

Description
If the cluster is a hash cluster, this attribute is the hash function.

Type String

Warehouse name
FUNCTION

Hash Keys attribute

Description
If the cluster is a hash cluster, this attribute is the number of hash keys (hash buckets).

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
HASH_KEYS or HASHKEYS

Degree attribute

Description
The number of threads per instance for scanning the cluster.

Type String

Warehouse name
DEGREE

Instances attribute

Description
The number of instances across which the cluster is to be scanned.

Type String

Warehouse name
INSTANCES

Cache attribute

Description
Indicates whether the cluster is to be cached in the buffer cache.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (Y)
- No (N)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CACHE

Buffer Pool attribute

Description
The name of the default buffer pool for the cluster.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Default (DEFAULT)
- Keep (KEEP)
- Recycle (RECYCLE)
- Null (NULL)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BUFFER_POOL or BUFPOOL

Single Table attribute

Description
Indicates whether this cluster is a single-table cluster.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (Y)
- No (N)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SINGLE_TABLE or SINTABLE

Dependencies attribute

Description
Indicates whether row-level dependency tracking is enabled or disabled.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Enabled (ENABLED)
- Disabled (DISABLED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DEPENDENCIES or DEPENDC

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Customized SQL Detail attribute group

The RDB Customized SQL Detail attribute group provides results of customized SQL executions, including five string columns, five number columns, and two datetime columns.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Customized SQL Detail attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

SQL ID attribute: This attribute is a key attribute.

Description
The SQL ID that is defined in the definition file.

Type String

Warehouse name
SQL_ID or SQLID

First String Column Name attribute

Description
The name of the first string type column in the result of the customized SQL execution.

Type String

Warehouse name
STRING_NAME_1 or STRNAME1

First String Value attribute

Description
The first string value in the result of the customized SQL execution.

Type String

Warehouse name
STRING_VALUE_1 or STRVALUE1

Second String Column Name attribute

Description
The name of the second string type column in the result of the customized SQL execution.

Type String

Warehouse name
STRING_NAME_2 or STRNAME2

Second String Value attribute

Description
The second string value in the result of the customized SQL execution.

Type String

Warehouse name
STRING_VALUE_2 or STRVALUE2

Third String Column Name attribute

Description
The name of the third string type column in the result of the customized SQL execution.

Type String

Warehouse name
STRING_NAME_3 or STRNAME3

Third String Value attribute

Description
The third string value in the result of the customized SQL execution.

Type String

Warehouse name
STRING_VALUE_3 or STRVALUE3

Fourth String Column Name attribute

Description
The name of the fourth string type column in the result of the customized SQL execution.

Type String

Warehouse name
STRING_NAME_4 or STRNAME4

Fourth String Value attribute

Description
The fourth string value in the result of the customized SQL execution.

Type String

Warehouse name
STRING_VALUE_4 or STRVALUE4

Fifth String Column Name attribute

Description
The name of the fifth string type column in the result of the customized SQL execution.

Type String

Warehouse name
STRING_NAME_5 or STRNAME5

Fifth String Value attribute

Description
The fifth string value in the result of the customized SQL execution.

Type String

Warehouse name
STRING_VALUE_5 or STRVALUE5

First Number Column Name attribute

Description
The name of the first number type column in the result of the customized SQL execution.

Type String

Warehouse name
NUMBER_NAME_1 or NUMNAME1

First Number Value attribute

Description
The first number value in the result of the customized SQL execution.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-999999999)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUMBER_VALUE_1 or NUMVALUE1

Second Number Column Name attribute

Description
The name of the second number type column in the result of the customized SQL execution.

Type String

Warehouse name
NUMBER_NAME_2 or NUMNAME2

Second Number Value attribute

Description
The second number value in the result of the customized SQL execution.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-999999999)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUMBER_VALUE_2 or NUMVALUE2

Third Number Column Name attribute

Description
The name of the third number type column in the result of the customized SQL execution.

Type String

Warehouse name
NUMBER_NAME_3 or NUMNAME3

Third Number Value attribute

Description
The third number value in the result of the customized SQL execution.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-999999999)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUMBER_VALUE_3 or NUMVALUE3

Fourth Number Column Name attribute

Description
The name of the fourth number type column in the result of the customized SQL execution.

Type String

Warehouse name
NUMBER_NAME_4 or NUMNAME4

Fourth Number Value attribute

Description
The fourth number value in the result of the customized SQL execution.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-999999999)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUMBER_VALUE_4 or NUMVALUE4

Fifth Number Column Name attribute

Description
The name of the fifth number type column in the result of the customized SQL execution.

Type String

Warehouse name
NUMBER_NAME_5 or NUMNAME5

Fifth Number Value attribute

Description
The fifth number value in the result of the customized SQL execution.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-999999999)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUMBER_VALUE_5 or NUMVALUE5

First Date Column Name attribute

Description
The name of the first datetime type column in the result of the customized SQL execution.

Type String

Warehouse name
DATETIME_NAME_1 or DATENAME1

First Date Value attribute

Description
The first datetime value in the result of the customized SQL execution.

Type Timestamp

Warehouse name
DATETIME_VALUE_1 or DATEVALUE1

Second Date Column Name attribute

Description
The name of the second datetime type column in the result of the customized SQL execution.

Type String

Warehouse name
DATETIME_NAME_2 or DATENAME2

Second Date Value attribute

Description
The second datetime value in the result of the customized SQL execution.

Type Timestamp

Warehouse name
DATETIME_VALUE_2 or DATEVALUE2

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Customized SQL Summary attribute group

The RDB Customized SQL Summary attribute group provides the summary information about customized SQL statements, such as the name of the definition file, the last updated time of the definition file, SQL ID, SQL content, error code, and error message.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RDB Customized SQL Summary attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Customized Definition File attribute: This attribute is a key attribute.

Description
The location of the definition file for customized SQL.

Type String

Warehouse name
CUSTOMIZED_DEFINITION_FILE or CUSSQLFILE

Definition File Last Modified Time attribute: This attribute is a key attribute.

Description
The last modified time of the definition file.

Type Timestamp

Warehouse name
LAST_MODIFIED_TIME or LASTMTIME

SQL ID attribute

Description
The SQL ID that is defined in the definition file.

Type String

Warehouse name
SQL_ID or SQLID

SQL Content attribute

Description
The SQL content that is defined in the definition file. The carriage return is replaced by a blank. The text that is shown is limited to 512 bytes.

Type String

Warehouse name
SQL_CONTENT or SQLCONTENT

Last Execution Error Code attribute

Description
The ORA error code of the last execution.

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LAST_EXECUTION_ERROR_CODE or LASTERROR

Last Execution Error Message attribute

Description
The ORA error message of the last execution.

Type String

Warehouse name
LAST_EXECUTION_ERROR_MESSAGE or LASTERRMSG

Last Execution Time attribute

Description
The time of the last execution.

Type Timestamp

Warehouse name
LAST_EXECUTION_TIME or LASTTIME

Defined SQL Timeout (seconds) attribute

Description
The timeout (in seconds) that is defined in the definition file. If the SQL execution time exceeds this timeout, the SQL execution is canceled. This value must be greater than 5 (seconds) and less than 1800 (seconds).

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SQL_TIMEOUT or SQLTIMEOUT

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Database Statistics Summary attribute group

The RDB Database Statistics Summary attribute group provides information about ratio statistics that are related to the performance of database instances.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Database Statistics Summary attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Continued Row Percentage (%) attribute

Description
The percentage for retrieved rows that extend over more than one block.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CONTINUED_ROW_PERCENTAGE or CONTROWPCT

Average Redo Size (Bytes) attribute

Description
The average size of a redo entry, which is calculated as the total redo size in bytes divided by the number of redo entries. This information can be useful in calculating the size of the online redo logs or the log buffer in the system global area (SGA).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_REDO_SIZE or AVGREDOSZ

Recursive Call To All Call (%) attribute

Description
The percentage of recursive calls in all calls (recursive calls plus user calls).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RECURSIVE_CALL_PERCENTAGE or RECUSRPCT

Changed Block Percentage (%) attribute

Description
The percentage for accessed blocks that are updated.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CHANGED_BLOCK_PERCENTAGE or CHBLKPCT

Cluster Key Ratio attribute

Description
The ratio of the cluster key scan block gets value to the cluster key scans value. If the ratio is greater than one, the rows for a cluster key are stored in multiple data blocks.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CLUSTER_KEY_RATIO or CLKEYRT

Consistent Change Percentage (%) attribute

Description
The ratio (in percentage) of the consistent changes value to the consistent gets value.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CONSISTENT_CHANGE_PERCENTAGE or CONCHPCT

Row Source Percentage (%) attribute

Description
The percentage for total retrieved rows that come from full-table scans. Ideally, this percentage is small, but it is dependent on the application design.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ROW_SOURCE_PERCENTAGE or ROWSRCPCT

PGA Optimal Percent (%) attribute

Description
The percentage for work areas that are executed with optimal memory size.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_OPTIMAL_PERCENTAGE or PGAOPTPPCT

Lock Hit Ratio (%) attribute

Description
The proportion of data block accesses that do not require lock conversions. Lock hit percentage indicates how efficiently user processes are distributed across multiple instances.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOCK_HIT_PERCENTAGE or LOCKHITPCT

Block Visits Per Transaction attribute

Description
This ratio represents the work database load imposed for each transaction; a value that is moving independently strongly indicates a change in the application workload.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCK_VISITS_PER_TRANSACTION or BLKVTXNRT

Redo Log Space Wait Ratio attribute

Description
This ratio measures memory allocation. If the value is greater than 1/5,000, the redo log buffer must be increased until the redo log space wait ratio stops failing.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REDO_LOG_SPACE_WAIT_RATIO or REDOSPWRT

User Calls Per Parse Ratio attribute

Description
The ratio of user calls to each parse. This ratio indicates how well the application is managing its context areas.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USER_CALLS_PER_PARSE_RATIO or UCALLTOPRT

Short to Long Full Table Scans (%) attribute

Description
The ratio (in percentage) of short table scans to long table scans.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHORT_TO_LONG_TABLE_SCANS_PERCENTAGE or TABSTOLPCT

Short Table Scans Percentage (%) attribute

Description
The ratio (in percentage) of short table scans to the sum of short table scans, long table scans, and table fetch by row ID.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHORT_TABLE_SCANS_PERCENTAGE or TABSSPCT

Long Table Scans Percentage (%) attribute

Description
The ratio (in percentage) of long table scans to the sum of short table scans, long table scans, and table fetch by rowid.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LONG_TABLE_SCANS_PERCENTAGE or TABLSPCT

Table by Index Percentage (%) attribute

Description
The ratio (in percentage) of table fetch by row ID to the sum of short table scans, long table scans, and table fetch by rowid.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TABLE_BY_INDEX_PERCENTAGE or TABISPCT

Efficient Table Access Percentage (%) attribute

Description
The ratio (in percentage) of the sum of short table scans and table fetch by rowid to the sum of short table scans, long table scans, and table fetch by rowid.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
EFFICIENT_TABLE_ACCESS_PERCENTAGE or TABACCPCT

Cluster Key Scan Block Gets attribute

Description
The value of the cluster key scan block get attribute in the v$sysstat view. This value is the number of blocks that are obtained in a cluster scan.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CLUSTER_KEY_SCAN_BLOCK_GETS or CKSBG

Cluster Key Scans attribute

Description
The value of the cluster key scan attribute in the v$sysstat view. This value is the number of cluster scans that are started.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CLUSTER_KEY_SCANS or CKSCAN

Consistent Gets attribute

Description
The value of the consistent gets attribute in the v$sysstat view. This value is the number of times that a consistent read is requested for a block.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CONSISTENT_GETS or CONSTGET

Consistent Changes attribute

Description
The value of the Consistent Changes attribute in the v$sysstat view. This value is the number of times that a user process applies rollback entries to perform a consistent read on the block.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CONSISTENT_CHANGES or CONSCHG

DB block changes attribute

Description
The value of the DB block changes attribute in the v$sysstat view. This value is the number of changes that are part of update and delete operations that are made to all blocks in the SGA.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DB_BLOCK_CHANGES or DBBLKCHG

DB Block Gets attribute

Description
The value of the db block gets attribute in the v$sysstat view. This value is the number of times that a current block is requested.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DB_BLOCK_GET or DBBLKGET

Global Enqueue Gets Async attribute

Description
The value of the global enqueue gets async attribute in the v$sysstat view.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GLOBAL_ENQUEUE_GETS_ASYNC or GEQGA

Redo Log Space Requests attribute

Description
The value of the redo log space requests attribute in the v$sysstat view. This value is the number of times that the active log file is full and the Oracle database must wait for disk space to be allocated for the redo log entries.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REDO_LOG_SPACE_REQUESTS or REDOSPCR

Redo Log Size attribute

Description
The value of the redo size attribute in the v$sysstat view. This value is the total amount (in bytes) of generated redo data.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REDO_SIZE or REDOSZ

Redo Entries attribute

Description
The value of the redo entries attribute in the v$sysstat view. This value is the number of times that a redo entry is copied into the redo log buffer.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REDO_ENTRIES or REDOENTR

Recursive Calls attribute

Description
The value of the Recursive Calls attribute in the v$sysstat view. This value is the number of recursive calls that are generated at both the user and system level.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RECURSIVE_CALLS or RECURCALL

Table Fetch Continued Row attribute

Description
The value of the table fetch attribute in the v$sysstat view. This value is the number of times that a chained or migrated row is encountered during a fetch.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TABLE_FETCH_CONTINUED_ROW or TBFCCROW

Table Fetch By Rowid attribute

Description
The value of the table fetch by rowid attribute in the v$sysstat view. This value is the number of rows that are fetched using a ROWID, which is recovered from an index.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TABLE_FETCH_BY_ROWID or TBFBRID

Table Scan Rows Gotten attribute

Description
The value of the table scan rows gotten attribute in the v$sysstat view. This value is the number of rows that are processed during scanning operations.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TABLE_SCAN_ROWS_GOTTEN or TBSCANRG

User Calls attribute

Description
The value of the user calls attribute in the v$sysstat view. This value is the number of user calls such as login, parse, fetch, and execute.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USER_CALLS or USERCALL

User Commits attribute

Description
The value of the user commit attribute in the v$sysstat view. This value is the number of user commits. When a user commits a transaction, the generated redo that reflects the changes made to the database blocks must be written to disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USER_COMMITS or USERCOM

Parse Count Total attribute

Description
The value of the parse count (total) attribute in the v$sysstat view. This value is the total number of parse calls, including both hard ones and soft calls.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PARSE_COUNT_TOTAL or PARSECNT

Workarea Executions Optimal attribute

Description
The value of the work area executions, the optimal attribute in the v$sysstat view.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WORKAREA_EXECUTIONS_OPTIMAL or WAEXECOPT

Workarea Executions Onepass attribute

Description
The value of the work area executions, the Onepass attribute in the v$sysstat view.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WORKAREA_EXECUTIONS_ONEPASS or WAEXECONE

Workarea Executions Multipass attribute

Description
The value of the work area executions, the multipass attribute in the v$sysstat view.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WORKAREA_EXECUTIONS_MULTIPASS or WAEXECM

Table Scans (Short Tables) attribute

Description
The value of the Table Scans (short tables) attribute in the v$sysstat view. Short (or long) tables can be defined by optimizer hints coming into the row source access layer of the Oracle database.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TABLE_SCANS_SHORT_TABLES or TABSSCAN

Table Scans (Long Tables) attribute

Description
The value of the Table Scans (long tables) attribute in the v$sysstat view. Long (or short) tables are tables that do not meet the short table criteria.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TABLE_SCANS_LONG_TABLES or TABLSCAN

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Database Topology attribute group

The RDB Database Topology attribute group shows the component relationships in one database.

Historical group
This attribute group is not eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Database Topology attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Node Information attribute

Description
The information about the node.

Type String

ThruNode Information attribute

Description
The information about the thrunode.

Type String

Node Name attribute

Description
The name of the node.

Type String

Node Type attribute

Description
The type of the node.

Type String

Node State attribute

Description
The state of the node.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ONLINE (ONLINE)
- NORMAL (NORMAL)
- ACTIVE (ACTIVE)
- OFFLINE (OFFLINE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

RDB DataFile Count attribute group

The RDB Data File Count attribute group provides information about open data files in the database.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB DataFile Count attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Total Files Defined attribute

Description
The number of files that are defined in the database.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_FILES_DEFINED or CURFILES

Max Open Files Allowed attribute

Description
The maximum number of files that are allowed open at the same time for the database.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_OPEN_FILES_ALLOWED or MAXFILES

% Total Files Defined attribute

Description
The ratio (as a percentage) of the open files to the maximum number of files that are allowed to be open at the same time for the database.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PERCENTAGE_TOTAL_FILES_DEFINED or USEDPCT

% Total Files Free attribute

Description
The ratio (as a percentage) of files that are not open to the maximum number of files that are allowed to be open at the same time for the database.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PERCENTAGE_TOTAL_FILES_FREE or FREEPCT

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB DataFile IO attribute group

The RDB Data File I/O attribute group provides information about the I/O statistics for data files in the database.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB DataFile IO attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Tablespace Name attribute: This attribute is a key attribute.

Description
The name of the table space to which the file belongs.

Type String

Warehouse name
TABLESPACE_NAME or TSNAME

File Name attribute: This attribute is a key attribute.

Description
The name of the database file.

Type String

Warehouse name
FILE_NAME or FILENAME

Total Read Write Number attribute

Description
The total number of physical reads and physical writes that are already done.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_READ_WRITE_NUMBER or TOTALRW

Physical Read Number attribute

Description
The number of physical reads that are already done.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PHYSICAL_READ_NUMBER or PHYRDS

Physical Write Number attribute

Description
The number of times that the database writer (DBWR) is required to write.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PHYSICAL_WRITE_NUMBER or PHYWRTS

Physical Blocks Read Number attribute

Description
The number of physical blocks that are already read.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PHYSICAL_BLOCKS_READ_NUMBER or PHYBLKRD

Physical Blocks Write Number attribute

Description
The number of blocks that are written to disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PHYSICAL_BLOCKS_WRITE_NUMBER or PHYBLKWRT

Read Time (ms) attribute

Description
The total time (in milliseconds) that is spent doing reads if the TIMED_STATISTICS parameter is true; the value is 0 if the TIMED_STATISTICS parameter is set to FALSE.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
READ_TIME_MS or READTIM

Write Time (ms) attribute

Description
The total time (in milliseconds) that is spent doing writes if the TIMED_STATISTICS parameter is true; the value is 0 if the TIMED_STATISTICS parameter is set to FALSE.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WRITE_TIME_MS or WRITETIM

Average Read Time (ms) attribute

Description
The average time (in milliseconds) of physical read.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_READ_TIME_MS or AVGRDTMS

Average Write Time (ms) attribute

Description
The average time (in milliseconds) of physical write.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_WRITE_TIME_MS or AVGWRTMS

Average Response Time (ms) attribute

Description
The average response time (in milliseconds) of physical read and write operations.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_RESPONSE_TIME_MS or AVGRESTMS

Single Block Reads attribute

Description
The number of single block reads.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SINGLE_BLOCK_READS or SGBLKRD

Single Block Read Time (ms) attribute

Description
The cumulative single block read time (in milliseconds).

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SINGLE_BLOCK_READ_TIME or SGBDTM

Average I/O Time (ms) attribute

Description
The average time (in milliseconds) spent on I/O, if the TIMED_STATISTICS parameter is true; the value is 0 if the TIMED_STATISTICS parameter is set to FALSE.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_TIME_IO_MS or AVGIOTM

Last I/O Time (ms) attribute

Description
The time (in milliseconds) spent doing the last I/O, if the TIMED_STATISTICS parameter is true; the value is 0 if the TIMED_STATISTICS parameter is set to FALSE.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LAST_TIME_IO_MS or LSTIOTM

Minimum Single I/O Time (ms) attribute

Description
The minimum time (in milliseconds) spent on a single I/O, if the TIMED_STATISTICS parameter is true; the value is 0 if the TIMED_STATISTICS parameter is set to FALSE.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MINIMUM_SINGLE_IO_TIME_MS or MINIOTM

Maximum Single Read Time (ms) attribute

Description
The maximum time (in milliseconds) spent doing a single read, if the TIMED_STATISTICS parameter is true; the value is 0 if the TIMED_STATISTICS parameter is set to FALSE.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_SINGLE_READ_TIME_MS or MAXIORM

Maximum Single Write Time (ms) attribute

Description
The maximum time (in milliseconds) spent doing a single write, if the TIMED_STATISTICS parameter is true; the value is 0 if the TIMED_STATISTICS parameter is set to FALSE.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_SINGLE_WRITE_TIME_MS or MAXIOWM

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB DataFile Overview attribute group

The RDB Data File Overview attribute group provides information about all data files in the database.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB DataFile Overview attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

File Name attribute: This attribute is a key attribute.

Description
The name of the database file.

Type String

Warehouse name
FILE_NAME or FNAME

File ID attribute: This attribute is a key attribute.

Description
The identifier number for the database file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FILE_ID or FID

Tablespace Name attribute: This attribute is a key attribute.

Description
The name of the table space to which the file belongs.

Type String

Warehouse name
TABLESPACE_NAME or TSNAME

File Size (Bytes) attribute

Description
The size (in bytes) of the file.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FILE_SIZE_BYTES or BYTES

File Size (KB) attribute

Description
The size (in KB) of the file .

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FILE_SIZE_KB or KBYTES

File Size (MB) attribute

Description
The size (in MB) of the file.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FILE_SIZE_MB or MBYTES

Blocks Number attribute

Description
The size (in Oracle blocks) of the file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCKS_NUMBER or BLOCKS

File Status attribute

Description
The file status; the valid values are AVAILABLE and INVALID, where INVALID means that the file number is not in use.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- AVAILABLE (AVAILABLE)
- INVALID (INVALID)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FILE_STATUS or STATUS

Relative File Number attribute

Description
The relative file number.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RELATIVE_FILE_NUMBER or RELAFNO

Auto Extent attribute

Description
The auto-extensible indicator.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AUTO_EXTENT or ATESE

Maximum File Size (Bytes) attribute

Description
The maximum size (in bytes) of the file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_FILE_SIZE_BYTES or MAXBTS

Maximum File Size (KB) attribute

Description
The maximum size (in KB) of the file.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_FILE_SIZE_KB or KMAXBTS

Maximum File Size (MB) attribute

Description
The maximum size (in MB) of the file.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_FILE_SIZE_MB or MMAXBTS

Maximum Block Number attribute

Description
The maximum size (in Oracle blocks) of the file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_BLOCK_NUMBER or MAXBLK

Block Increment Number attribute

Description
The number of table space blocks that are used as auto-extension increments.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCK_INCREMENT_NUMBER or INCBY

User Data Size (Bytes) attribute

Description
The size (in bytes) of the file that is available for user data. The actual size of the file minus this value is the size that is used to store file-related metadata.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USER_DATA_SIZE_BYTES or USRBTS

User Data Size (KB) attribute

Description
The size (in KB) of the file that is available for user data. The actual size of the file minus this value is the size that is used to store file-related metadata.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USER_DATA_SIZE_KB or USRBTSK

User Data Size (MB) attribute

Description
The size (in MB) of the file that is available for user data. The actual size of the file minus this value is the size that is used to store file-related metadata.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USER_DATA_SIZE_MB or USRBTSM

% User Data attribute

Description
The percentage of the file that is available for user data.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PERCENTAGE_USER_DATA or PCI

User Blocks Number attribute

Description
The number of blocks that can be used by user data.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USER_BLOCKS_NUMBER or USRBLK

Online Status attribute

Description
The online status of the file. This attribute is available in Oracle 10.2 or later versions.

Type String

Warehouse name
ONLINE_STATUS or OLSTAT

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB DBA Extents attribute group

The RDB DBA Extents attribute group provides information about the extents comprising the segments in all table spaces.

Historical group

This attribute group is not eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RDB DBA Extents attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Owner attribute: This attribute is a key attribute.

Description
The owner of the segment that is associated with the extent.

Type String

Segment Name attribute: This attribute is a key attribute.

Description
The name of the segment that is associated with the extent.

Type String

Partition Name attribute: This attribute is a key attribute.

Description
The partition or subpartition name of the segment.

Type String

Segment Type attribute: This attribute is a key attribute.

Description
The type of the segment.

Type String

Tablespace Name attribute: This attribute is a key attribute.

Description
The name of the table space that contains the extent.

Type String

Extent ID attribute: This attribute is a key attribute.

Description
The extent number in the segment.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

File ID attribute: This attribute is a key attribute.

Description
The name of the file that contains the extent.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Block ID attribute: This attribute is a key attribute.

Description
The starting block number for the extent.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Bytes attribute: This attribute is a key attribute.

Description
The size (in bytes) of the extent.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Blocks attribute: This attribute is a key attribute.

Description
The size (in Oracle blocks) of the extent.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Relative FNO attribute: This attribute is a key attribute.

Description
The relative number of the file that contains the segment header.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Next Block attribute: This attribute is a key attribute.

Description
The maximum block that the extent occupies.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

RDB DBA HIST SQL PLAN attribute group

This attribute group shows the SQL execution plan.

Historical group
This attribute group is not eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB DBA HIST SQL PLAN attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

DBID attribute: This attribute is a key attribute.

Description
The database ID.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

SQL ID attribute: This attribute is a key attribute.

Description
The SQL identifier of the parent cursor in the library cache.

Type String

Hash Value attribute

Description
The numerical representation of the SQL plan for the cursor.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

ID attribute

Description
The number that is assigned to this step in the execution plan.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Operation attribute

Description
The name of the internal operation that is performed in this step.

Type String

Options attribute

Description
The variation on the operation that is described in the operation.

Type String

Object Node attribute

Description
The name of the database link that is used to reference the object.

Type String

Object Num attribute

Description
The object number for the table or index.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Object Owner attribute

Description
The name of the user who owns the schema that contains the table or index.

Type String

Object Name attribute

Description
The name of the table or index.

Type String

Objec Alias attribute

Description
The alias for the object.

Type String

OBJECTTYPE attribute

Description
The type of the object.

Type String

Optimizer attribute

Description
The current mode of the optimizer for the first row in the plan.

Type String

Parent ID attribute

Description
The ID of the next execution step that operates on the output of the current step.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Depth attribute

Description
The depth of the operations in the tree.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Position attribute

Description
The order of the processing for all operations that have the same parent ID.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Search Columns attribute

Description
The number of index columns with the start and stop keys.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Cost attribute

Description
The cost of the operation as estimated by the optimizer's cost-based approach.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Cardinality attribute

Description
The number of rows that are produced by the operation as estimated by the cost-based optimizer.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Bytes attribute

Description
The number of bytes that are produced by the operation estimated by the cost-based optimizer.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Other Tag attribute

Description
The contents of the other columns.

Type String

Partition Start attribute

Description
The start partition of a range of accessed partitions.

Type String

Partition Stop attribute

Description
The stop partition of a range of accessed partitions.

Type String

Partition ID attribute

Description
The step that computes the values of the Partition Start column and the Partition Stop column.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Other attribute

Description
Other information that is specific to the execution step.

Type String

Distribution attribute

Description
The method that is used to distribute rows from producer query servers to consumer query servers.

Type String

CPU Cost attribute

Description
The CPU cost of the operation as estimated by the cost-based approach for the optimizer. The value is null if the rule-based approach is used.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

IO Cost attribute

Description
The I/O cost of the operation as estimated by the cost-based approach for the optimizer. The value is null if the rule-based approach is used.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Temp Space attribute

Description
The temporary space usage of the operation as estimated by the cost-based approach for the optimizer. The value is null if the rule-based approach is used.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Access Predicates attribute

Description
The predicates that are used to locate rows in an access structure.

Type String

Filter Predicates attribute

Description
The predicates that are used to filter rows before producing them.

Type String

Projection attribute

Description
The expression that is produced by the operation.

Type String

Time(s) attribute

Description
The elapsed time of the operations as estimated by the cost-based approach for the optimizer. The value is null if the rule-base approach is used.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Query Block attribute

Description
The name of the query block.

Type String

Produced Timestamp attribute

Description
The timestamp when the plan is produced.

Type Timestamp

Other XML attribute

Description
Extra information that is specific to an execution step of the execution plan.

Type String

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

RDB Dba Hist SysMetric Summary attribute group

The RDB Dba Hist SysMetric Summary attribute group provides information about the history of statistical summary for all metric values in the System Metrics Long Duration group.

Historical group
This attribute group is not eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Dba Hist SysMetric Summary attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

SNAP ID attribute: This attribute is a key attribute.

Description
The unique ID of the snapshot.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Database ID attribute: This attribute is a key attribute.

Description
The database ID for the snapshot.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Instance Number attribute: This attribute is a key attribute.

Description
The instance number for the snapshot.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Begin Time attribute: This attribute is a key attribute.

Description
The begin time of the interval.

Type Timestamp

End Time attribute: This attribute is a key attribute.

Description
The end time of the interval.

Type Timestamp

Interval Size attribute

Description
The size (in hundredths of a second) of the interval.

Type Integer (64-bit numeric property) with enumerated values. The strings are

displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Group ID attribute: This attribute is a key attribute.

Description
The group identifier for the metric.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Metric ID attribute: This attribute is a key attribute.

Description
The identifier of the metric.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Metric Name attribute

Description
The name of the metric.

Type String

Metric Unit attribute

Description
The unit of measurement.

Type String

Num Interval attribute

Description
The number of observed intervals.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Minimum Value Observed attribute

Description
The minimum value of the metric that is observed.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Maximum Value Observed attribute

Description
The maximum value of the metric that is observed.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Average attribute

Description
The average value of the metric over the period.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Standard Deviation attribute

Description
The deviation value from the standard.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

RDB Dictionary Cache Detail attribute group

The RDB Dictionary Cache Detail attribute group provides statistics for data dictionary activity.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Dictionary Cache Detail attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are

displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Initialization Parameter Name attribute: This attribute is a key attribute.

Description
The name of the initialization parameter that determines the number of entries in the data dictionary cache.

Type String

Warehouse name
INITIALIZATION_PARAMETER_NAME or INITPARM

Request Number attribute

Description
The total number of requests for information about the data object.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REQUEST_NUMBER or REQUEST

Miss Number attribute

Description
The number of data requests that result in cache misses.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MISS_NUMBER or MISSES

Modifications Number attribute

Description
The number of inserts, updates, and deletions.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MODIFICATIONS_NUMBER or MODIFIS

Flushes Number attribute

Description
The number of times that flushed to disk.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FLUSHES_NUMBER or FLUSHES

% Miss Request attribute

Description
The percentage of the getmisses attribute value in the gets attribute value.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MISS_REQUEST_PERCENT or MISSRATIO

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Dictionary Cache Ratio attribute group

The Dictionary Cache Hit Ratio attribute group provides information about the ratio of dictionary cache hits.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Dictionary Cache Ratio attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Request Number attribute

Description
The total number of requests for information.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REQUEST_NUMBER or SUMGETS

Misses Number attribute

Description
The total number of data requests that result in cache miss.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MISSES_NUMBER or SUMMISSES

% Dictionary Cache Hit attribute

Description
The percentage of dictionary cache hit.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DICTIONARY_CACHE_HIT_RATIO or HITRATIO

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Disk Space attribute group

The RDB Disk Space attribute group provides information about the disk space for archive destinations, table space files, and dump destinations. This attribute group is available only when the agent is installed on the same system with the Oracle database.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Disk Space attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or INSTNAME

Is Local attribute

Description
Indicates whether this instance is a local one.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_LOCAL or ISLOCAL

Owner Type attribute

Description
The owner type of the path.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Archive Destination (ARCHIVE_DEST)
- Data File (DATA_FILE)
- Dump Destination (DUMP_DEST)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OWNER_TYPE or OWNTYPE

Owner attribute: This attribute is a key attribute.

Description
The owner of the path

Type String

Warehouse name
OWNER

Path attribute: This attribute is a key attribute.

Description
The path to monitor.

Type String

Warehouse name
PATH

Free Size (Bytes) attribute

Description
The size (in bytes) of the free disk space on the file system, this attribute is available only for local monitoring.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_SIZE_BYTES or FREESIZE

Free Size (MB) attribute

Description
The size (in MB) of the free disk space on the file system, this attribute is available only for local monitoring.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_SIZE_MB or MFRESIZE

Total Size (Bytes) attribute

Description
The total size (in bytes) of the file system, this attribute is available only for local monitoring.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_SIZE_BYTES or TOTLSIZE

Total Size (MB) attribute

Description
The total size (in MB) of the file system, this attribute is available only for local monitoring.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_SIZE_MB or MTOTSIZE

% Free attribute

Description
The percentage of free disk space on the file system, this attribute is available only for local monitoring.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PERCENTAGE_FREE or FREEPCT

Used Size (Bytes) attribute

Description
The size (in bytes) of the used disk space on the file system, this attribute is available only for local monitoring.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USED_SIZE_BYTES or USEDSIZE

Used Size (MB) attribute

Description
The size (in MB) of the used disk space on the file system, this attribute is available only for local monitoring.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USED_SIZE_MB or MUSESIZE

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Flash Recovery Area Usage attribute group

This attribute group provides usage information about the flashback recovery areas.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Flash Recovery Area Usage attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

File Type attribute: This attribute is a key attribute.

Description
The type of file in the flashback area, such as control file, redo log, and archived log.

Type String

Warehouse name
FILE_TYPE or FILETYPE

Space Used(%) attribute

Description
The percentage of recovery area that is in use.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SPACE_USED_PERCENTAGE or PCTUSED

Space Reclaimable(%) attribute

Description
The percentage of recovery area that is reclaimable.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SPACE_RECLAIMABLE_PERCENTAGE or PCTCLAIM

Number Of Files attribute

Description
The number of files in the recovery area.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUMBER_OF_FILES or NUMFILES

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Flashback Database Log attribute group

This attribute group provides information about the flashback data. Use the information to estimate the amount of flashback space that is required for the current workload.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Flashback Database Log attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Oldest Flashback SCN attribute: This attribute is a key attribute.

Description
The lowest SCN (system change number) in the flashback data, for any incarnation.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OLDEST_FLASHBACK_SCN or OLDFBSCN

Oldest Flashback Time attribute

Description
Time of the lowest SCN in the flashback data, for any incarnation.

Type Timestamp

Warehouse name
OLDEST_FLASHBACK_TIME or OLDFBTIME

Retention Target attribute

Description
Target retention time(in minutes).

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RETENTION_TARGET or RETARGET

Flashback Size(Bytes) attribute

Description
The current size(in bytes) of the flashback data.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FLASHBACK_SIZE or FBSIZE

Flashback Size(MB) attribute

Description
The current size(in MB) of the flashback data.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FLASHBACK_SIZE_MB or FBSIZEMB

Estimated Flashback Size(Bytes) attribute

Description
The estimated size (in bytes) of flashback data that is required for the current target retention.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ESTIMATED_FLASHBACK_SIZE or ESTSIZE

Estimated Flashback Size(MB) attribute

Description
The estimated size (in MB) of flashback data that is required for the current target retention.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ESTIMATED_FLASHBACK_SIZE_MB or ESTSIZEMB

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INST_ID

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Flashback Database Logfile attribute group

This attribute group provides information about flashback log files. The attribute group is available only for Oracle 11g or later.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Flashback Database Logfile attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Name attribute: This attribute is a key attribute.

Description
The name of the log file.

Type String

Warehouse name
NAME

Log Number attribute: This attribute is a key attribute.

Description
The number for the log file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOG_NUMBER or LOGNUM

Thread Number attribute: This attribute is a key attribute.

Description
The thread number for the log file.

Type Integer (64-bit numeric property) with enumerated values. The strings are

displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_NUMBER or THREADNUM

Sequence Number attribute

Description
The sequence number of the log file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SEQUENCE_NUMBER or SEQUENCE

Size(bytes) attribute

Description
The size of the log file (in bytes).

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BYTES

Size(MB) attribute

Description
The size of the log file (in MB).

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MBYTES

First Change attribute

Description
The lowest SCN (system change number) in the log file.

Type Integer (64-bit numeric property) with enumerated values. The strings are

displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FIRST_CHANGE or FIRTCHN

First Time attribute

Description
The time of the first SCN in the log file.

Type Timestamp

Warehouse name
FIRST_TIME or FIRTTIME

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INST_ID

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB GCS Block Lost attribute group

The RDB GCS Block Lost attribute group provides information about the GCS blocks that are lost and corrupt.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RDB GCS Block Lost attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or INSTNAME

Block Lost attribute

Description
The value of the system statistic that is called global cache blocks lost.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCK_LOST or BLKLOST

Block Corrupt attribute

Description
The value of the system statistic that is called global cache blocks corrupt.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCK_CORRUPT or BLKCRUPT

CR Blocks Served attribute

Description
The value of the system statistic that is called global cache consistent read blocks served.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CR_BLOCKS_SERVED or CRBSERVED

Current Blocks Served attribute

Description
The value of the system statistic that is called global cache current blocks served.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CURRENT_BLOCKS_SERVED or CURBSERVED

Lost Ratio(%) attribute

Description
The percentage for lost or corrupted blocks that are occupied in all consistent and current blocks that are served.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOST_RATIO or LOSTRATIO

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB GCS CR Latency attribute group

The RDB GCS CR Latency attribute group provides information about the latency time of consistent reads.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB GCS CR Latency attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or INSTNAME

CR Block Received Time (ms) attribute

Description
The value (in milliseconds) of the system statistic that is called global cache consistent read block receive time.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CR_BLOCK_RECEIVED_TIME_MS or BLKRCVTIME

CR Blocks Received attribute

Description
The value of the system statistic that is called global cache consistent read blocks received.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CR_BLOCK_RECEIVED or BLKRCVED

Avg. CR Block Received Time (ms) attribute

Description
The average receive time (in milliseconds) for each block. Divide the value of the system statistic that is called global cache consistent read block receive time by the value that is called global cache consistent read blocks received.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVG_CR_BLOCK_RECEIVED_MS or AVGBLKRCVT

CR Build Time (ms) attribute

Description
The value (in milliseconds) of the system statistic that is called global cache consistent read block build time.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CR_BUILD_TIME_MS or CRBLDTIME

CR Flush Time (ms) attribute

Description
The value (in milliseconds) of the system statistic that is called global cache consistent read block flush time.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CR_FLUSH_TIME_MS or CRFLUTIME

CR Sent Time (ms) attribute

Description
The value (in milliseconds) of the system statistic that is called global cache consistent read block send time.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CR_SENT_TIME_MS or CRSNDTIME

CR Blocks Served attribute

Description
The value of the system statistic that is called global cache consistent read blocks served.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CR_BLOCK_SERVED or BLKSERVED

Avg. CR Block Served Time (ms) attribute

Description
The average serve time (in milliseconds) of each consistent read block.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVG_CR_BLOCK_SERVED_TIME_MS or LMSSRVTIME

Avg. CR Build Time (ms) attribute

Description
The average build time (in milliseconds) for each block. Divide the value of the system statistic that is called global cache consistent read block build time by the value of the system statistic that is called global cache consistent read blocks served.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVG_CR_BUILD_TIME_MS or BLDTIME

Avg. CR Flush Time (ms) attribute

Description
The average flush time (in milliseconds) for each block. Divide the value of the system statistic that is called global cache consistent read block flush time by the value of the system statistic that is called global cache consistent read blocks served.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVG_CR_FLUSH_TIME_MS or FLUSHTIME

Avg. CR Send Time (ms) attribute

Description
The average send time (in milliseconds) for each block. Divide the value of the

system statistic that is called global cache consistent read block send time by the value of the system statistic that is called global cache consistent read blocks served.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVG_CR_SEND_TIME_MS or SENDTIME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB GCS Cur Block attribute group

The RDB GCS Cur Block attribute group provides information about the latency time of the current block.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB GCS Cur Block attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or INSTNAME

Current Block Receive Time (ms) attribute

Description
The value (in milliseconds) of the system statistic that is called global cache current block receive time.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CURRENT_BLOCK_RECEIVE_TIME_MS or BLKRCVTIME

Current Blocks Received attribute

Description
The value (in milliseconds) of the system statistic that is called global cache current blocks received.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CURRENT_BLOCKS_RECEIVED or BLKRCVED

Avg. Current Block Receive Time (ms) attribute

Description
The average receive time (in milliseconds) for each current block in the GCS.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVG_CURRENT_BLOCK_RECEIVE_TIME_MS or AVGBLKRCVT

Current Block Pin Time (ms) attribute

Description
The value (in milliseconds) of the system statistic that is called global cache current block pin time.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CURRENT_BLOCK_PIN_TIME_MS or CURPINTIME

Current Block Flush Time (ms) attribute

Description
The value (in milliseconds) of the system statistic that is called global cache current block flush time.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CURRENT_BLOCK_FLUSH_TIME_MS or CURFLUTIME

Current Block Sent Time (ms) attribute

Description
The value (in milliseconds) of the system statistic that is called global cache current block send time.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CURRENT_BLOCK_SENT_TIME_MS or CURSNDTIME

Current Blocks Served attribute

Description
The value of the system statistic that is called global cache current blocks served.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CURRENT_BLOCK_SERVED or BLKSERVED

Avg. Current Block Served Time (ms) attribute

Description
The average serve time (in milliseconds) for each current block in the GCS.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVG_CURRENT_BLOCK_SERVED_TIME_MS or LMSSVRTIME

Avg. Current Block Pin Time (ms) attribute

Description
The average pin time (in milliseconds) for each current block in the GCS.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVG_CURRENT_BLOCK_PIN_TIME_MS or PINTME

Avg. Current Block Flush Time (ms) attribute

Description
The average flush time (in milliseconds) for each current block in the GCS.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVG_CURRENT_BLOCK_FLUSH_TIME_MS or FLUSHTIME

Avg. Current Block Send Time (ms) attribute

Description
The average send time (in milliseconds) for each current block in the GCS.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVG_CURRENT_BLOCK_SEND_TIME_MS or SENDTIME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB GCS Mem attribute group

The RDB GCS Mem attribute group provides information about the memory that is allocated for the GCS.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB GCS Mem attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or INSTNAME

Pool Name attribute: This attribute is a key attribute.

Description
The pool name for which the memory is allocated.

Type String

Warehouse name
POOL

Resources (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called gcs resources.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESOURCES_BYTES or GCSRES

Shadow (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called gcs shadows.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHADOW_BYTES or GCSSHA

Commit SGA State (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called gcs commit sga state.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
COMMIT_SGA_STATE_BYTES or GCSCSGA

Res Hash Bucket (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called gcs res hash bucket.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RES_HASH_BUCKET_BYTES or GCSRHB

Res Latch Table (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called gcs res latch table.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RES_LATCH_TABLE_BYTES or GCSRLT

Affinity (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called gcs affinity.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AFFINITY_BYTES or GCSAFFI

Opaque In (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called gcs opaque in.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OPAQUE_IN_BYTES or GCSOI

Mastership Bucket (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called gcs mastership bucket.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MASTERSHIP_BUCKET_BYTES or GCSMB

Shadow Locks Freelist (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called gcs shadow locks freelist.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHADOW_LOCKS_FREELIST_BYTES or GCSSLF

Resource Freelist attr (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called gcs resource freelist attr.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESOURCE_FREELIST_ATTR_BYTES or GCSRFA

Resource Freelist Dyn (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called gcs resource freelist dyn.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESOURCE_FREELIST_DYN_BYTES or GCSRFD

IO Statistics Struct (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called gcs I/O statistics struct.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IO_STATISTICS_STRUCT_BYTES or GCSIOSS

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB GES Enq Stat attribute group

The RDB GES Enq Stat attribute group provides information about enqueue (lock) statistics.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB GES Enq Stat attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or INSTNAME

Enqueue Type attribute: This attribute is a key attribute.

Description
The type of enqueue that is requested.

Type String

Warehouse name
ENQUEUE_TYPE or EQTYPE

Total Requests attribute

Description
The total number of enqueue requests or enqueue conversion for this type of enqueue.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_REQUESTS or TOTALREQ

Total Wait Requests attribute

Description
The total number of times that an enqueue request or conversion resulted in a wait.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_WAIT_REQUESTS or TOTALWAIT

Successful Requests attribute

Description
The number of times that an enqueue request or conversion was granted.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SUCCESSFUL_REQUESTS or SUCCREQ

Failed Requests attribute

Description
The number of times that an enqueue or conversion failed.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FAILED_REQUESTS or FAILEDREQ

Total Wait Time (ms) attribute

Description
The total amount of time (in milliseconds) spent waiting for the enqueue or enqueue conversion.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_WAIT_TIME_MS or CUMWAITT

Failed Ratio (%) attribute

Description
The percentage of failed requests in all requests.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FAILED_RATIO or FAILRATIO

Wait Ratio (%) attribute

Description
The percentage of wait requests in all requests.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WAIT_RATIO or WAITRATIO

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB GES Latency attribute group

The RDB GES Latency attribute group provides information about the latency time of GES resources.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB GES Latency attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or INSTNAME

Enqueue Get Time (ms) attribute

Description
The accumulated time (in milliseconds) for all GES resources required to open.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ENQUEUE_GET_TIME_MS or GETTIME

Enqueue Sync Get attribute

Description
The amount of GES resources required to open synchronously.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ENQUEUE_SYNC_GET or SYNC

Enqueue Async Get attribute

Description
The amount of GES resources required to open asynchronously.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ENQUEUE_ASYNC_GET or ASYNC

Avg. Latency time (ms) attribute

Description
The average latency time (in milliseconds) of GES resources.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVG_LATENCY_TIME_MS or LATENCY

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB GES Lock attribute group

The RDB GES Lock attribute group provides statistics for the GES lock.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB GES Lock attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or INSTNAME

SID attribute: This attribute is a key attribute.

Description
The identifier for the session.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SESSION_ID or SID

SPID attribute: This attribute is a key attribute.

Description
The identifier for the operating system process.

Type String

Warehouse name
PROCESS_ID or SPID

Resource Name attribute: This attribute is a key attribute.

Description
The resource name of the block.

Type String

Warehouse name
RESOURCE_NAME or RESNAME

Grant Level attribute: This attribute is a key attribute.

Description
The granted level of the lock.

Type String

Warehouse name
GRANT_LEVEL or GRANTLEV

Request Level attribute: This attribute is a key attribute.

Description
The requested level of the lock.

Type String

Warehouse name
REQUEST_LEVEL or REQLEV

State attribute: This attribute is a key attribute.

Description
The state of the lock as the owner sees it.

Type String

Warehouse name
STATE

User Name attribute: This attribute is a key attribute.

Description
The logon user for the session.

Type String

Warehouse name
USER_NAME or USERNAME

Owner ID attribute: This attribute is a key attribute.

Description
The identifier for the user who owns the session to be migrated; the contents are invalid if the value is 2147483644.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OWNER_ID or OWNERID

Program attribute: This attribute is a key attribute.

Description
The program name of the operating system.

Type String

Warehouse name
PROGRAM

Event attribute: This attribute is a key attribute.

Description
The resource or event for which the session is waiting.

Type String

Warehouse name
EVENT

Session Type attribute: This attribute is a key attribute.

Description
The type of the session.

Type String

Warehouse name
SESSION_TYPE or TYPE

Session Wait Time (sec) attribute

Description
The amount of time (in seconds) that were spent as a waiting session, or the amount of time since the start of last wait.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SESSION_WAIT_TIME_SEC or SECWAIT

Blocked attribute

Description
The status of the lock; the value is 1 if this lock is locking, otherwise the value is 0.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCKED

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB GES Mem attribute group

The RDB GES Mem attribute group provides information about the memory usage of the GES.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB GES Mem attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or INSTNAME

Pool Name attribute: This attribute is a key attribute.

Description
The pool in which the memory is located.

Type String

Warehouse name
POOL

Big Msg Buffers (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges big msg buffers.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BIG_MSG_BUFFERS_BYTES or GESBMF

Resource (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges resource.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESOURCE_BYTES or GESRES

Enqueues (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges enqueues.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ENQUEUES_BYTES or GESEUQ

Reserved Msg Buffers (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges reserved msg buffers.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESERVED_MSG_BUFFERS_BYTES or GESREMB

Regular Msg Buffers (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges regular msg buffers.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REGULAR_MSG_BUFFER_BYTES or GESRGMB

Process Array (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges process array.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PROCESS_ARRAY_BYTES or GESPA

Resource Hash Table (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges resource hash table.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESOURCE_HASH_TABLE_BYTES or GESRHT

Shared Global Area (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges shared global area.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHARED_GLOBAL_AREA_BYTES or GESSGA

Deadlock Xid Hash Tab (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges deadlock xid hash tab.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DEADLOCK_XID_HASH_TAB_BYTES or GESDXHT

Process Hash Table (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges process hash table.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PROCESS_HASH_TABLE_BYTES or GESPHT

Resource Hash Seq Tab (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges resource hash seq tab.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESOURCE_HASH_SEQ_TAB_BYTES or GESRHST

Deadlock Xid Freelist (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges deadlock xid freelist.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DEADLOCK_XID_FREELIST_BYTES or GESDXF

Lmd Process Descripto (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges lmd process descripto.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LMD_PROCESS_DESCRIPTO_BYTES or GESLDPD

Lms Process Descripto (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges lms process descripto.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LMS_PROCESS_DESCRIPTO_BYTES or GESLPD

Res Mastership Bucket (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges res mastership bucket.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RES_MASTERSHIP_BUCKET_BYTES or GESRMB

Resource Pools (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges resource pools.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RESOURCE_POOLS_BYTES or GESRP

IPC Instance Maps (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges ipc instance maps.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IPC_INSTANCE_MAPS_BYTES or GESIIM

Enqueue Multiple Free (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges enqueue multiple free.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ENQUEUE_MULTIPLE_FREE_BYTES or GESEMF

Scan Queue Array (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges scan queue array.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SCAN_QUEUE_ARRAY_BYTES or GESSQA

Recovery Domain Table (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges recovery domain table.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RECOVERY_DOMAIN_TABLE_BYTES or GESRDT

Enqueue max. Usage Pe (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges enqueue max. usage pe.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ENQUEUE_MAX_USAGE_BYTES or GESEMUP

Enqueue cur. Usage Pe (Bytes) attribute

Description
The amount of memory (in bytes) that is allocated for the SGA component that is called ges enqueue cur. usage pe.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ENQUEUE_CUR_USAGE_BYTES or GESECUP

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Index AVG Data Block attribute group

The RDB Index AVG Data Block attribute group provides information about the 10 largest data blocks in the table that are not in the SYSAUX, SYSTEM, or NULL table spaces. The value must be greater than 0.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Index AVG Data Block attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Owner attribute: This attribute is a key attribute.

Description
The owner of the index.

Type String

Warehouse name
OWNER

Index Name attribute: This attribute is a key attribute.

Description
The name of the index.

Type String

Warehouse name
INDEX_NAME or IDXNAME

Tablespace Name attribute

Description
The name of the table space that contains the index.

Type String

Warehouse name
TABLESPACE_NAME or TSNAME

Average Data Blocks Per Key attribute

Description
The average number of data blocks in the table that are pointed to by a distinct value that is rounded to the nearest integer in the index.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_DATA_BLOCKS_PER_KEY or AVGDBLKPK

Show Name attribute

Description
The combination of the Owner column and the Index Name column.

Type String

Warehouse name
SHOW_NAME or SHOWNAME

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Index Size attribute group

The RDB Index Size attribute group provides the sizes of the top 10 largest indexes that are not in the SYSAUX, SYSTEM, or NULL table spaces. The value must be greater than 0.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Index Size attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Owner attribute: This attribute is a key attribute.

Description
The owner of the index.

Type String

Warehouse name
OWNER

Index Name attribute: This attribute is a key attribute.

Description
The name of the index.

Type String

Warehouse name
INDEX_NAME or IDXNAME

Tablespace Name attribute

Description
The name of the table space that contains the index.

Type String

Warehouse name
TABLESPACE_NAME or TSNAME

Index Size (Bytes) attribute

Description
The size of the index (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INDEX_SIZE_BYTES or SIZEBYTES

Index Size (KB) attribute

Description
The size of the index (in KB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INDEX_SIZE_KB or SIZEKB

Index Size (MB) attribute

Description
The size of the index (in MB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INDEX_SIZE_MB or SIZEMB

Show Name attribute

Description
The combination of the Owner and Index Name.

Type String

Warehouse name
SHOW_NAME or SHOWNAME

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Indexes attribute group

The RDB Indexes attribute group provides information about all indexes in the database.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Indexes attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Owner attribute: This attribute is a key attribute.

Description
The owner of the index.

Type String

Warehouse name
OWNER

Index Name attribute: This attribute is a key attribute.

Description
The name of the index.

Type String

Warehouse name
INDEX_NAME or IDXNAME

Index Type attribute

Description
The type of the index.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Normal (NORMAL)
- Normal/REV (NORMAL/REV)
- Bitmap (BITMAP)
- FUNCTION-BASED NORMAL (FUNCTION-BASED NORMAL)
- FUNCTION-BASED NORMAL/REV (FUNCTION-BASED NORMAL/REV)
- FUNCTION-BASED BITMAP (FUNCTION-BASED BITMAP)
- Cluster (CLUSTER)
- IOT - TOP (IOT - TOP)
- Domain (DOMAIN)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INDEX_TYPE or IDXTYPE

Table Owner attribute

Description
The owner of the indexed object.

Type String

Warehouse name
TABLE_OWNER or TBOWNER

Table Name attribute

Description
The name of the indexed object.

Type String

Warehouse name
TABLE_NAME or TBNAME

Table Type attribute

Description
The type of the indexed object.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NEXT OBJECT (NEXT OBJECT)
- Index (INDEX)
- Table (TABLE)
- Cluster (CLUSTER)
- View (VIEW)
- Synonym (SYNONYM)
- Sequence (SEQUENCE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TABLE_TYPE or TBTYPE

Uniqueness attribute

Description
Indicates whether the index is unique.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Unique (UNIQUE)
- Nonunique (NONUNIQUE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
UNIQUENESS or UNIQU

Compression attribute

Description
Indicates whether index compression is enabled.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Enabled (ENABLED)
- Disabled (DISABLED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
COMPRESSION or COMPRES

Prefix Length attribute

Description
The number of columns in the prefix of the compression key.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PREFIX_LENGTH or PREFIXLEN

Tablespace Name attribute

Description
The name of the table space containing the index.

Type String

Warehouse name
TABLESPACE_NAME or TSNAME

Initial Transactions attribute

Description
The initial number of transactions.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INITIAL_TRANSACTIONS or INITRANS

Max Transactions attribute

Description
The maximum number of transactions.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_TRANSACTIONS or MAXTRANS

Initial Extent Size (Bytes) attribute

Description
The size of the initial extent (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INITIAL_EXTENT_SIZE_BYTES or INIEXTENT

Initial Extent Size (KB) attribute

Description
The size of the initial extent (in KB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INITIAL_EXTENT_SIZE_KB or INIEXTKB

Initial Extent Size (MB) attribute

Description
The size of the initial extent (in MB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INITIAL_EXTENT_SIZE_MB or INIEXTMB

Next Extent Size (Bytes) attribute

Description
The size of the secondary extent (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NEXT_EXTENT_SIZE_BYTES or NEXTEXTENT

Next Extent Size (KB) attribute

Description
The size of the secondary extent (in KB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NEXT_EXTENT_SIZE_KB or NEXTEXTKB

Next Extent Size (MB) attribute

Description
The size of the secondary extent (in MB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NEXT_EXTENT_SIZE_MB or NEXTEXTMB

Min Extent attribute

Description
The minimum number of extents that are allowed in the segment.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MIN_EXTENT or MINEXTENT

Max Extent attribute

Description
The maximum number of extents that are allowed in the segment.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_EXTENT or MAXEXTENT

Increase Percentage (%) attribute

Description
The percentage of increase in extent size.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INCREASE_PERCENTAGE or INCRESPCT

Threshold Percentage (%) attribute

Description
The threshold percentage of block space that is allowed per index entry.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THRESHOLD_PERCENTAGE or THRESHPCT

Include Column attribute

Description
The column ID of the last column to be included in the primary key (non-overflow) index of an index-organized table. This column maps to the COLUMN_ID column of the *_TAB_COLUMNS view.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INCLUDE_COLUMN or INCLCOL

Freelists attribute

Description
The number of process free lists that are allocated to this segment.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREELISTS

Freelists Groups attribute

Description
The number of free list groups that are allocated to this segment.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREELISTS_GROUPS or FRLIGRP

Free Space Percentage (%) attribute

Description
The minimum percentage of free space in a block.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PCT_FREE or FREEPCT

Logging attribute

Description
Indicates whether the changes that are made to the index are logged.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOGGING

BTree Level attribute

Description
The B-Tree level, which is the depth of the index from its root block to its leaf blocks. A depth of 0 indicates that the root block and leaf block are the same.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BTREE_LEVEL or BLEVEL

Leaf Blocks attribute

Description
The number of leaf blocks in the index.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LEAF_BLOCKS or LEAFBLKS

Distinct Keys attribute

Description
The number of distinct indexed values. For indexes that enforce UNIQUE and PRIMARY KEY constraints, this value is the same as the number of rows in the table (*_TABLES.NUM_ROWS).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISTINCT_KEYS or DISTKEYS

Average Leaf Blocks Per Key attribute

Description
The average number of leaf blocks in which each distinct value in the index is displayed and is rounded to the nearest integer. For indexes that enforce UNIQUE and PRIMARY KEY constraints, this value is always 1.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_LEAF_BLOCKS_PER_KEY or AVGLBLKPK

Average Data Blocks Per Key attribute

Description
The average number of data blocks in the table that are pointed to by a distinct value that is rounded to the nearest integer in the index.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_DATA_BLOCKS_PER_KEY or AVGDBLKPK

Clustering Factor attribute

Description
The amount of order of the rows in the table based on the values of the index.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CLUSTERING_FACTOR or CLUFACTO

Status attribute

Description
Indicates whether a nonpartitioned index is valid or unusable.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Valid (VALID)
- Unusable (UNUSABLE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS

Num Rows attribute

Description
The number of rows in the index.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUM_ROWS or NUMROWS

Sample Size attribute

Description
The size of the sample that is used to analyze the index.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SAMPLE_SIZE or SAMSIZE

Last Analyzed attribute

Description
The date when this index was most recently analyzed.

Type Timestamp

Warehouse name
LAST_ANALYZED or LAANALYZED

Degree attribute

Description
The number of threads per instance for scanning the index.

Type String

Warehouse name
DEGREE

Instances attribute

Description
The number of instances across which the index is to be scanned.

Type String

Warehouse name
INSTANCES

Partitioned attribute

Description
Indicates whether the index is partitioned.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PARTITIONED or PARTITNED

Temporary attribute

Description
Indicates whether the index is on a temporary table.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (Y)
- No (N)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TEMPORARY

Generated attribute

Description
Indicates whether the name of the index is system-generated.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (Y)
- No (N)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GENERATED

Secondary attribute

Description
Indicates whether the index is a secondary object that is created by the ODCIIndexCreate method of the Oracle Data Cartridge.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (Y)
- No (N)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SECONDARY

Buffer Pool attribute

Description
The default buffer pool to be used for the index blocks.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Default (DEFAULT)
- Keep (KEEP)
- Recycle (RECYCLE)
- Null (NULL)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BUFFER_POOL or BUFPOOL

User Stats attribute

Description
Indicates whether statistics are entered directly by the user.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USER_STATS or USERSTATS

Duration attribute

Description
The duration of a temporary table.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- SYS$SESSION (SYS$SESSION)
- SYS$TRANSACTION (SYS$TRANSACTION)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DURATION

Direct Access Percentage (%) attribute

Description
For a secondary index on an index-organized table, the percentage of rows with a VALID guess.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PCT_DIRECT_ACCESS or DIRACCEPCT

Indextype Owner attribute

Description
For a domain index, the owner of the indextype.

Type String

Warehouse name
INDEXTYPE_OWNER or ITYPOWNER

Indextype Name attribute

Description
For a domain index, the name of the indextype.

Type String

Warehouse name
INDEXTYPE_NAME or ITYPNAME

Parameters attribute

Description
For a domain index, the parameter string.

Type String

Warehouse name
PARAMETERS

Global Stats attribute

Description
For partitioned indexes, indicates whether statistics are collected by analyzing the index as a whole or are estimated from statistics on underlying index partitions and subpartitions.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GLOBAL_STATS or GLBSTATS

Domain Index Status attribute

Description
The status of a domain index.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Null (NULL)
- Valid (VALID)
- IDXTYP Invalid (IDXTYP_INVLD)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DOMAIN_INDEX_STATUS or DOMSTATUS

Domain Index Operation Status attribute

Description
The status of the operation on a domain index.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Null (NULL)

- Valid (VALID)
- Failed (FAILED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DOMAIN_INDEX_OPERATION_STATUS or DOMOSTATUS

Function Based Index Status attribute

Description
The status of a function-based index.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Null (NULL)
- Enabled (ENABLED)
- Disabled (DISABLED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FUNCTION_BASED_INDEX_STATUS or FUNSTATUS

Join Index attribute

Description
Indicates whether the index is a join index.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
JOIN_INDEX or JOININDEX

IOT Redundant Pkey Elim attribute

Description
Indicates whether redundant primary key columns are eliminated from secondary indexes on index-organized tables.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IOT_REDUNDANT_PKEY_ELIM or IOTRDPKEM

Dropped attribute

Description
Indicates whether the index is dropped and is in the recycle bin; the value is NULL for partitioned tables.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DROPPED

Visibility attribute

Description
Indicates whether the index is visible or invisible to the optimizer.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Visible (VISIBLE)
- Invisible (INVISIBLE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
VISIBILITY

Domain Index Management attribute

Description
For a domain index, this value indicates whether the domain index is system-managed (SYSTEM_MANAGED) or user-managed (USER_MANAGED).

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- System Managed (SYSTEM_MANAGED)
- User Managed (USER_MANAGED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DOMAIN_INDEX_MANAGEMENT or DOMMANAGMT

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Instance Info attribute group

The RDB Instance Info attribute group provides information about the state of current instances.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Instance Info attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INST_ID

Instance Number attribute

Description
The number of the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_NUMBER or INSTNUM

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or INSTNAME

Host Name attribute

Description
The name of the host.

Type String

Warehouse name
HOST_NAME or HOSTNAME

Version attribute

Description
The version of the instance.

Type String

Warehouse name
VERSION

Start Time attribute

Description
The time when the instance was started.

Type Timestamp

Warehouse name
START_TIME or STARTTIME

Status attribute

Description
The status of the instance; the valid values are started, mounted, open, and open migrate.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- STARTED (STARTED)
- MOUNTED (MOUNTED)
- OPEN (OPEN)
- OPEN MIGRATE (OPEN MIGRATE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS

Parallel attribute

Description
Indicates whether the instance is mounted in cluster database mode; the valid values are YES and NO.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PARALLEL

Redo Thread Number attribute

Description
The number of redo threads that are opened by the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REDO_THREAD_NUMBER or THREADNUM

Archiver attribute

Description
The automatic archiving status; the valid values are STOPPED, STARTED, and FAILED.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- STOPPED (STOPPED)
- STARTED (STARTED)
- FAILED (FAILED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ARCHIVER

Log Switch Wait attribute

Description
The event for which the log switching is waiting; the valid values are Archive Log, Clear Log, or Checkpoint.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ARCHIVE LOG (ARCHIVE LOG)
- CLEAR LOG (CLEAR LOG)
- CHECKPOINT (CHECKPOINT)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOG_SWITCH_WAIT or LOGSWWAIT

Logins attribute

Description
Indicates whether the instance is in unrestricted mode; the valid values are ALLOWED and RESTRICTED.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ALLOWED (ALLOWED)
- RESTRICTED (RESTRICTED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOGINS

Shutdown Pending attribute

Description
Indicates whether a shutdown is pending; the valid values are YES and NO.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHUTDOWN_PENDING or SDPENDING

Database Status attribute

Description
Indicates the status of the monitored database; the valid values are Active, Suspended, and Instance Recovery.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ACTIVE (ACTIVE)
- SUSPENDED (SUSPENDED)
- INSTANCE RECOVERY (INSTANCE RECOVERY)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DATABASE_STATUS or DBSTATUS

Instance Role attribute

Description
Indicates whether the instance is active (PRIMARY), inactive (SECONDARY), or unknown.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- PRIMARY INSTANCE (PRIMARY_INSTANCE)
- SECONDARY INSTANCE (SECONDARY_INSTANCE)
- UNKNOWN (UNKNOWN)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ROLE or INSTROLE

Active State attribute

Description
The quiesce state of the instance; the valid values are NORMAL, QUIESCING, and QUIESCED.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NORMAL (NORMAL)
- QUIESCING (QUIESCING)
- QUIESCED (QUIESCED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ACTIVE_STATE or ACTIVESTAT

BLOCKED attribute

Description
Indicates whether all services are blocked. This attribute is available in Oracle 10.2 or later versions.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCKED

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Instances Active Ratio attribute group

The RDB Instances Active Ratio attribute group provides information about the ratio of active instances to total instances.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Instances Active Ratio attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Active Instance Count attribute

Description
The count of instances that are in active status.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ACTIVE_INSTANCE_COUNT or ACTINST

Total Instance Count attribute

Description
The total count of instances in the database.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_INSTANCE_COUNT or TOTALINST

Active Ratio (%) attribute

Description
The ratio (as a percentage) of active instances to total instances.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ACTIVE_RATIO or ACTRATIO

Database Name attribute: This attribute is a key attribute.

Description
The name of the database

Type String

Warehouse name
DATABASE_NAME or DBNAME

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

RDB Inter Connections attribute group

The RDB Inter Connections attribute group provides interconnection characteristics.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Inter Connections attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Name attribute: This attribute is a key attribute.

Description
The name of the interconnection, such as eth0. This attribute is available only for the Real Application Clusters database.

Type String

Warehouse name
NAME

IP Address attribute

Description
The IP Address of the interconnection. This attribute is available only for the Real Application Clusters database.

Type String

Warehouse name
IP_ADDRESS or IPADDRESS

Is Public attribute

Description
If the value is Yes, the interface is known to the public; if the value is No, the interface is private. This attribute is available only for the Real Application Clusters database.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_PUBLIC or ISPUBLIC

Source attribute

Description
Indicates where this interface was picked up; the valid values are OCR, Operating-System, and Cluster_Interconnections. This attribute is available only for the Real Application Clusters database.

Type String

Warehouse name
SOURCE

Active CPUs attribute

Description
The number of active CPUs.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ACTIVE_CPUS or NUMCPUS

Load attribute

Description
The number of processes that are running or waiting in the run queue.

Type Real number (64-bit gauge) with 4 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOAD

Physical Memory (GB) attribute

Description
The size (in GB) of physical memory.

Type Real number (64-bit numeric property) with 3 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PHYSICAL_MEMORY_GB or PHYMEM

Idle Time (%) attribute

Description
The percentage for CPUs that are in the idle state.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IDLE_TIME_PERCENT or IDLETIME

Busy Time (%) attribute

Description
The percentage for CPUs that have been in the busy state.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BUSY_TIME_PERCENT or BUSYTIME

User Time (%) attribute

Description
The percentage for CPUs that are in the user code.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USER_TIME_PERCENT or USERTIME

Sys Time (%) attribute

Description
The percentage for CPUs that are in the kernel.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SYS_TIME_PERCENT or SYSTIME

IO Wait Time (%) attribute

Description
The percentage for CPUs that are waiting for I/O.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IO_WAIT_TIME_PERCENT or IOTIME

Nice Time (%) attribute

Description
The percentage for CPUs that are in the low priority user code.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NICE_TIME_PERCENT or NICETIME

Process runnable waiting Time (%) attribute

Description
The percentage of waiting time that processes spent in the runnable state.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PROCESS_RUNNABLE_WAITING_TIME_PERCENT or PWTIME

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Latch Children attribute group

The RDB Latch Children attribute group provides statistics for child latches.

Historical group
This attribute group is not eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Latch Children attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Address attribute: This attribute is a key attribute.

Description
The address of the latch object.

Type String

Latch Number attribute: This attribute is a key attribute.

Description
The latch number for the parent latch.

Type Integer (64-bit numeric property) with enumerated values. The strings are

displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Latch Child Number attribute: This attribute is a key attribute.

Description
The child latch number, which is unique only to each parent latch.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Latch Level attribute: This attribute is a key attribute.

Description
The level for the latch.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Latch Name attribute: This attribute is a key attribute.

Description
The name of the latch.

Type String

Willing To Wait Gets attribute

Description
The number of times a latch was requested in willing-to-wait mode.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Willing To Wait Misses attribute

Description
The number of times a latch was requested in willing-to-wait mode and the requestor had to wait.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Willing To Wait Sleeps attribute

Description
The number of times a willing-to-wait latch request resulted in a session sleeping while waiting for the latch.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Sleeps/Misses attribute

Description
The ratio of willing-to-wait sleeps to misses.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Willing To Wait Miss Ratio (%) attribute

Description
The percentage for the willing-to-wait gets that result in misses.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Willing To Wait Hit Ratio (%) attribute

Description
The percentage for the willing-to-wait gets that do not result in misses.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Immediate Gets attribute

Description
The number of times a latch was requested in no-wait mode.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Immediate Misses attribute

Description
The number of times a no-wait latch request did not succeed (or missed).

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Willing To Wait Spin Gets attribute

Description
The number of times willing-to-wait latch requests missed the first try but succeeded while spinning.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Wait Time (mcs) attribute

Description
The elapsed time (in microseconds) that is spent waiting for the latch.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Immediate Miss Ratio (%) attribute

Description
The ratio (as a percentage) of misses to gets in no-wait mode.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Immediate Hit Ratio (%) attribute

Description
The ratio (as a percentage) of successful latch requests to gets in no-wait mode.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

RDB Latch Statistics attribute group

The RDB Latch Statistics attribute group provides aggregate latch statistics for both parent and child latches, grouped by latch name.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Latch Statistics attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INST_ID

Address attribute

Description
The address of the latch object.

Type String

Warehouse name
ADDRESS or ADDR

Latch Number attribute: This attribute is a key attribute.

Description
The number for the latch.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LATCH_NUMBER or LATCHNUM

Latch Level attribute: This attribute is a key attribute.

Description
The level of the latch.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LATCH_LEVEL or LEVELNUM

Latch Name attribute: This attribute is a key attribute.

Description
The name of the latch.

Type String

Warehouse name
LATCH_NAME or NAME

Willing To Wait Gets attribute

Description
The number of times a latch was requested in willing-to-wait mode.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WILLING_TO_WAIT_GETS or WTWGETS

Willing To Wait Misses attribute

Description
The number of times a latch was requested in willing-to-wait mode and the requester had to wait.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WILLING_TO_WAIT_MISSES or WTWMISS

Willing To Wait Sleeps attribute

Description
The number of times a willing-to-wait latch request resulted in a session sleeping while waiting for the latch.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WILLING_TO_WAIT_SLEEPS or SLEEPS

Sleeps/Misses attribute

Description
The ratio of willing-to-wait sleeps to misses.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RATIO_OF_SLEEPS_TO_MISSES or SLEEPRATIO

Willing To Wait Miss Ratio (%) attribute

Description
The percentage for the willing-to-wait gets that result in misses.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WILLING_TO_WAIT_MISS_RATIO or MISSRATIO

Willing To Wait Hit Ratio (%) attribute

Description
The percentage for the willing-to-wait gets that do not result in misses.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WILLING_TO_WAIT_HIT_RATIO or HITRATIO

Immediate Gets attribute

Description
The number of times a latch was requested in no-wait mode.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IMMEDIATE_GETS or IMMGETS

Immediate Misses attribute

Description
The number of times a no-wait latch request did not succeed (or missed).

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IMMEDIATE_MISSES or IMMMISS

Willing To Wait Spin Gets attribute

Description
The willing-to-wait latch requests that missed the first try but succeeded while spinning.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WILLING_TO_WAIT_SPIN_GETS or SPIN_GETS

Wait Time (mcs) attribute

Description
The elapsed time (in microseconds) that is spent waiting for the latch.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WAIT_TIME

Immediate Miss Ratio (%) attribute

Description
The ratio (as a percentage) of misses to gets in no-wait mode.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IMMEDIATE_MISS_RATIO or IMMISSRAT

Immediate Hit Ratio (%) attribute

Description
The ratio (as a percentage) of successful latch request to gets in no-wait mode.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IMMEDIATE_HIT_RATIO or IMHITRAT

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Library Cache Detail attribute group

The RDB Library Cache Detail attribute group provides statistics for library cache performance and activity.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Library Cache Detail attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type String

Warehouse name
INSTANCE_ID or INSTID

Namespace Name attribute: This attribute is a key attribute.

Description
The namespace name of the library cache.

Type String

Warehouse name
NAMESPACE_NAME or NAMESPACE

PIN Number attribute

Description
The number of times that a PIN was requested for objects with this namespace.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PIN_NUMBER or PINNUM

PIN Hits attribute

Description
The number of times that all metadata pieces of the library object were found in memory.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PIN_HITS or PINHIT

% PIN Hits attribute

Description
The ratio (as a percentage) of the PIN hits number to the PIN number.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PIN_HITS_RATIO or HITRATIO

PIN Reloads attribute

Description
The number of the PIN for an object that is not the first PIN performed since the object handle was created, which requires loading the object from the disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PIN_RELOADS or RELOADS

% PIN Reloads attribute

Description
The percentage of PIN reloads.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PIN_RELOADS_RATIO or RELOADRT

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Library Cache Ratio attribute group

The RDB Library Cache Ratio attribute group provides information about the percentage of library cache performance and activity.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Library Cache Ratio attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Executions attribute

Description
The total number of times that a PIN was requested for objects with this namespace.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
EXECUTIONS

PIN Hits Number attribute

Description
The total number of times that all metadata pieces of the library object were found in memory.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PIN_HITS_NUMBER or HITS

% PIN Hits attribute

Description
The ratio (as a percentage) of the PIN hits number to the PIN number.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PIN_HITS_RATIO or HITRATIO

Misses attribute

Description
The total number of PINs for an object that is not the first PIN performed since the object handle was created, which requires loading the object from disk.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MISSES

% First PIN attribute

Description
The ratio (as a percentage) of the PINS attribute to the sum of the PINS attribute and the RELOADS attribute.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FIRST_PIN_RATIO or PINRATIO

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Lock Conflict attribute group

The RDB Lock Conflict attribute group provides characteristics of user type locks.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Lock Conflict attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Blocker Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the blocker instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCKER_INSTANCE_ID or INST_ID

Locked Object ID1 attribute: This attribute is a key attribute.

Description
The lock identifier number 1.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOCKED_OBJECT_ID1 or LOBJID1

Blocker Object Name attribute: This attribute is a key attribute.

Description
The name of the object that is locked by the blocking session.

Type String

Warehouse name
BLOCKER_OBJECT_NAME or BOBJNAME

Blocker Object Type attribute: This attribute is a key attribute.

Description
The type of the object that is locked by the blocking session.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)
- NEXT OBJECT (0)
- INDEX (1)
- TABLE (2)
- CLUSTER (3)
- VIEW (4)
- SYNONYM (5)
- SEQUENCE (6)
- PROCEDURE (7)
- FUNCTION (8)
- PACKAGE (9)
- PACKAGE BODY (10)
- TRIGGER (11)
- INDEX (12)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCKER_OBJECT_TYPE or BOBJTYPE

Blocking Session ID attribute: This attribute is a key attribute.

Description
The identifier for the blocking session.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCKING_SESSION_ID or BLOCKSID

Blocking User ID attribute: This attribute is a key attribute.

Description
The user ID of the blocking session.

Type String

Warehouse name
BLOCKING_USER_ID or UBLOCKUID

Blocking SQL Address attribute: This attribute is a key attribute.

Description
The SQL address that is used to identify the SQL statement that is currently running in the blocking session.

Type String

Warehouse name
BLOCKING_SQL_ADDRESS or BLOCKSADDR

Waiting Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the waiting instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WAITING_INSTANCE_ID or WAITINSTID

Waiting Session ID attribute: This attribute is a key attribute.

Description
The identifier for the waiting session.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WAITING_SESSION_ID or WAITSID

Waiting User ID attribute: This attribute is a key attribute.

Description
The identifier for the user that is waiting for the lock.

Type String

Warehouse name
WAITING_USER_ID or UWAITUID

Waiting SQL Address attribute: This attribute is a key attribute.

Description
The SQL address that is used to identify the SQL statement that is currently running in the waiting session.

Type String

Warehouse name
WAITING_SQL_ADDRESS or WAITSADDR

Hold Mode attribute: This attribute is a key attribute.

Description
The lock mode in which the session holds the lock.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)
- none (0)
- null NULL (1)
- row-S SS (2)
- row-X SX (3)
- share S (4)
- S/Row-X SSX (5)
- exclusive X (6)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
HOLD_MODE or HOLDMODE

Request Mode attribute: This attribute is a key attribute.

Description
The lock mode in which the process requests the lock.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)
- none (0)
- null NULL (1)
- row-S SS (2)
- row-X SX (3)
- share S (4)
- S/Row-X SSX (5)
- exclusive X (6)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REQUEST_MODE or REQUMODE

Locked Object ID2 attribute: This attribute is a key attribute.

Description
The lock identifier number 2.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOCKED_OBJECT_ID2 or LOBJID2

Event attribute: This attribute is a key attribute.

Description
The resource or event for which the session is waiting.

Type String

Warehouse name
EVENT

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Lock Detail attribute group

The RDB Lock Detail attribute group provides information about the locks that are currently held by the Oracle database and outstanding requests for a lock or latch.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Lock Detail attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INST_ID

Lock State Object Address attribute: This attribute is a key attribute.

Description
The address of the lock state object.

Type String

Warehouse name
LOCK_STATE_OBJECT_ADDRESS or ADDR

Lock Address attribute: This attribute is a key attribute.

Description
The address of the lock.

Type String

Warehouse name
LOCK_ADDRESS or KADDR

Session ID attribute: This attribute is a key attribute.

Description
The identifier for the session that is holding or acquiring the lock.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SESSION_ID or SESSIONID

Lock Type attribute: This attribute is a key attribute.

Description
The type of user or system lock.

Type String

Warehouse name
LOCK_TYPE or LOCKTYPE

Lock Name attribute

Description
The name of the resource type. This name is a short (less than 32 characters) enqueue type name.

Type String

Warehouse name
LOCK_NAME or LOCKNAME

Lock ID1 attribute: This attribute is a key attribute.

Description
The lock identifier number 1.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOCK_ID1 or LOCKID1

Lock ID2 attribute: This attribute is a key attribute.

Description
The lock identifier number 2.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOCK_ID2 or LOCKID2

Hold Lock Mode attribute: This attribute is a key attribute.

Description
The lock mode in which the session holds the lock.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)
- none (0)
- null NULL (1)
- row-S SS (2)
- row-X SX (3)
- share S (4)
- S/Row-X SSX (5)
- exclusive X (6)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
HOLD_LOCK_MODE or HOLLMODE

Request Lock Mode attribute: This attribute is a key attribute.

Description
The lock mode in which the process requests the lock.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)
- none (0)
- null NULL (1)
- row-S SS (2)
- row-X SX (3)
- share S (4)
- S/Row-X SSX (5)
- exclusive X (6)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REQUEST_LOCK_MODE or REQLMODE

Current Mode Time(sec) attribute

Description
The time (in seconds) since the current mode was granted.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CURRENT_MODE_TIME or CTIME

Block Lock attribute: This attribute is a key attribute.

Description
Indicates whether the lock in question is the blocker.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- NO (0)
- YES (1)
- Global-NOT APPLY (2)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCK_LOCK or ISBLOCK

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Lock Statistics attribute group

The RDB Lock Statistics attribute group aggregates lock counts, which are grouped by the lock that is currently held by the Oracle database.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Lock Statistics attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INST_ID

Lock Type attribute: This attribute is a key attribute.

Description
The type of user or system lock.

Type String

Warehouse name
LOCK_TYPE or LOCKTYPE

Lock Count attribute

Description
The count of user or system locks.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOCK_COUNT or LOCKCNT

Lock Name attribute

Description
The name of the resource type. This name is a short (less than 32 characters) enqueue type name.

Type String

Warehouse name
LOCK_NAME or LOCKNAME

Lock Description attribute

Description
The explanation of how or for what purpose the enqueue is used.

Type String

Warehouse name
LOCK_DESCRIPTION or LOCKDESC

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Msg Stat attribute group

The RDB Msg Stat attribute group provides information about message statistics.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Msg Stat attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are

displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or INSTNAME

Msgs Send Queue Time (ms) attribute

Description
The value (in milliseconds) of the system parameter that is called msgs sent queue time (ms).

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MSGS_SEND_QUEUE_TIME_MS or MSGQTIME

Msgs Send Queued attribute

Description
The value of the system parameter that is called msgs sent queued.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MSGS_SEND_QUEUED or MSGSENDQ

Msgs Send Queue Time on ksxp (ms) attribute

Description
The value (in milliseconds) of the system parameter that is called msgs sent queue time on ksxp (ms).

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MSGS_SEND_QUEUE_TIME_ON_KSXP_MS or MSGQTIMEK

Msgs Send Queued on ksxp attribute

Description
The value of the system parameter that is called msgs sent queued on ksxp.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MSGS_SEND_QUEUED_ON_KSXP or MSGSENDQK

Msgs Received Queue Time (ms) attribute

Description
The value (in milliseconds) of the system parameter that is called msgs received queue time (ms).

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MSGS_RECEIVED_QUEUE_TIME_MS or MSGRQTIME

Msgs Received Queued attribute

Description
The value of the system parameter that is called msgs received queued.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MSGS_RECEIVED_QUEUED or MSGRECQ

GCS Msgs Process Time (ms) attribute

Description
The value (in milliseconds) of the system parameter that is called gcs msgs process time(ms).

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GCS_MSGS_PROCESS_TIME_MS or GCSMSGPTIM

GES Msgs Process Time (ms) attribute

Description
The value (in milliseconds) of the system parameter that is called ges msgs process time(ms).

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GES_MSGS_PROCESS_TIME_MS or GESMSGPTIM

GCS Msgs Received attribute

Description
The value of the system parameter that is called gcs msgs received.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GCS_MSGS_RECEIVED or GCSMSGREC

GES Msgs Received attribute

Description
The value of the system parameter that is called ges msgs received.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GES_MSGS_RECEIVED or GESMSGREC

Msgs Sent Directly attribute

Description
The value of the system parameter that is called messages sent directly.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MSGS_SENT_DIRECTLY or MSGSDIR

Msgs Sent Indirectly attribute

Description
The value of the system parameter that is called messages sent indirectly.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MSGS_SENT_INDIRECTLY or MSGSINDIR

Flow Control Messages Sent attribute

Description
The value of the system parameter that is called flow control messages sent.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FLOW_CONTROL_MESSAGES_SENT or MSGCSENT

Msg Ratio Directly (%) attribute

Description
The ratio (as a percentage) of messages sent directly to all messages.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MSG_RATIO_DIRECTLY or AVGDIRS

Msg Ratio Indirectly (%) attribute

Description
The ratio (as a percentage) of messages sent indirectly to all messages.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MSG_RATIO_INDIRECTLY or AVGINDIRS

Msg Ratio Flow Control (%) attribute

Description
The ratio (as a percentage) of flow control messages sent to all messages.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MSG_RATIO_FLOW_CONTROL or AVGCONTS

Avg Msg Sent Queued (ms) attribute

Description
Divide the value of the system parameter that is called msgs sent queue time (ms) by the value of the system parameter that is called msgs sent queued.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVG_MSG_SENT_QUEUED_MS or AVGMSGS

Avg Msg Sent Queued on Ksxp (ms) attribute

Description
Divide the value of the system parameter that is called msgs sent queue time on ksxp (ms) by the value of the system parameter that is called msgs sent queued on ksxp.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVG_MSG_SENT_QUEUED_ON_KSXP_MS or AVGMSGSK

Avg Msg Received(ms) attribute

Description
Divide the value of the system parameter that is called msgs received queue time (ms) by the value of the system parameter that is called msgs received queued.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVG_MSG_RECEIVED_MS or AVGMSGREC

Avg GCS Process Time(ms) attribute

Description
Divide the value of the system parameter that is called gcs msgs process time(ms) by the value of the system parameter that is called gcs msgs received.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVG_GCS_PROCESS_TIME_MS or AVGGCSP

Avg GES Process Time(ms) attribute

Description
Divide the value of the system parameter that is called ges msgs process time(ms) by the value of the system parameter that is called ges msgs received.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVG_GES_PROCESS_TIME_MS or AVGGESP

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Objects attribute group

The RDB Objects attribute group provides information about all objects in the database.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Objects attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Owner attribute: This attribute is a key attribute.

Description
The owner of the object.

Type String

Warehouse name
OWNER

Object Name attribute: This attribute is a key attribute.

Description
The name of the object.

Type String

Warehouse name
OBJECT_NAME or OBJNAME

Subobject Name attribute

Description
The name of the subobject, for example, partition.

Type String

Warehouse name
SUBOBJECT_NAME or SUBOBJNAME

Object ID attribute

Description
The dictionary object number for the object.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OBJECT_ID or OBJID

Data Object ID attribute

Description
The dictionary object number of the segment that contains the object.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DATA_OBJECT_ID or DATAOBJID

Object Type attribute

Description
The type of the object, such as TABLE or INDEX.

Type String

Warehouse name
OBJECT_TYPE or OBJTYPE

Created attribute

Description
The timestamp for the creation of the object.

Type Timestamp

Warehouse name
CREATED

Last DLL Time attribute

Description
The timestamp for the last modification of the object that resulted from a DDL statement, including grants and revokes.

Type Timestamp

Warehouse name
LAST_DDL_TIME or LTDDLTIME

Specification Timestamp attribute

Description
The timestamp for the specification of the object (character data).

Type String

Warehouse name
SPECIFICATION_TIMESTAMP or TMSTAMP

Status attribute

Description
The status of the object.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Valid (VALID)
- Invalid (INVALID)
- Not Available (N/A)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS

Temporary attribute

Description
Indicates whether the object is temporary, which is whether the current session can see only data that it placed in this object itself.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (Y)
- No (N)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TEMPORARY

Generated attribute

Description
Indicates whether the name of this object is system-generated.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (Y)
- No (N)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GENERATED

Secondary attribute

Description
Indicates whether this object is a secondary object that is created by the ODCIIndexCreate method of the Oracle Data Cartridge.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (Y)
- No (N)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SECONDARY

Namespace attribute

Description
The namespace for the object.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NAMESPACE

Edition Name attribute

Description
Reserved for future use.

Type String

Warehouse name
EDITION_NAME or EDNAME

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Option attribute group

The RDB Option attribute group provides information about database options and features.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RDB Option attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Parameter attribute: This attribute is a key attribute.

Description
The name of the option or feature.

Type String

Warehouse name
PARAMETER

Value attribute

Description
Indicates whether the option or feature is installed.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- True (TRUE)
- False (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
VALUE

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Parameter attribute group

The RDB Parameter attribute group provides information about the initialization parameters that are currently in effect for the session.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Parameter attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Parameter Number attribute: This attribute is a key attribute.

Description
The number for the parameter.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PARAMETER_NUMBER or PARANUM

Parameter Name attribute

Description
The name of the parameter.

Type String

Warehouse name
PARAMETER_NAME or PAPANAME

Parameter Type attribute

Description
The type of the parameter.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Boolean (1)
- String (2)
- Integer (3)
- Parameter file (4)
- Reserved (5)
- Big integer (6)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PARAMETER_TYPE or TYPE

Value attribute

Description
if the parameter value is modified within the session, this value is the parameter value for the session; otherwise, this value is the instance-wide parameter value. If the value has more than 256 characters, it is truncated.

Type String

Warehouse name
VALUE

Display Value attribute

Description
The approximate value of the parameter. For example, if the VALUE column shows a value of 262144 for a big integer parameter, the DISPLAY_VALUE column shows a value of 256K. If the value has more than 256 characters, it is truncated.

Type String

Warehouse name
DISPLAY_VALUE or DISVALUE

Is Default attribute

Description
Indicates whether the parameter is set to the default value, or the parameter value is specified in the parameter file.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- True (TRUE)
- False (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_DEFAULT or ISDEFLT

Is Session Modifiable attribute

Description
Indicates whether the parameter can be changed with the ALTER SESSION command.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- True (TRUE)
- False (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_SESSION_MODIFIABLE or ISEMOLE

Is System Modifiable attribute

Description
Indicates whether the parameter can be changed with the ALTER SYSTEM command and when the change takes effect.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Immediate (IMMEDIATE)
- Deferred (DEFERRED)
- False (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_SYSTEM_MODIFIABLE or ISYMOLE

Is Instance Modifiable attribute

Description
Indicates whether the value of the parameter can be different for each instance, or whether the parameter must have the same value for all Real Application Clusters instances.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- True (TRUE)
- False (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_INSTANCE_MODIFIABLE or ISIMOLE

Is Modified attribute

Description
Indicates whether the parameter is modified after the instance startup.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Modified (MODIFIED)
- System Mod (SYSTEM_MOD)
- False (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_MODIFIED or ISMODID

Is Adjusted attribute

Description
Indicates whether the Oracle database adjusts the input value to a more suitable

value. for example, the parameter value must be prime, but the user entered a non-prime number, so the Oracle database adjusts the value to the next prime number.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- TRUE (TRUE)
- FALSE (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_ADJUSTED or ISAJTED

Is Deprecated attribute

Description
Indicates whether the parameter is deprecated.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- True (TRUE)
- False (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_DEPRECATED or DEPRECATED

Is Basic attribute

Description
Indicates whether the parameter is a basic parameter.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- True (TRUE)
- False (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IS_BASIC or ISBASIC

Description attribute

Description
The description of the parameter. If the value has more than 64 characters, the value is truncated.

Type String

Warehouse name
DESCRIPTION or DESCRIP

Update Comments attribute

Description
The comments that are associated with the most recent update. If the value has more than 64 characters, the value is truncated.

Type String

Warehouse name
UPDATE_COMMENTS or UPDCOT

Hash attribute

Description
The hash value for the parameter name.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
HASH or HASHVAL

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Performance Object Status attribute group

The Performance Object Status attribute group contains information that reflects the status of other attribute groups so you can see the status of all of the performance objects that make up this application all at once. Each of these other performance attribute groups is represented by a row in this table (or other type of view). The status for an attribute group reflects the result of the last attempt to collect data for that attribute group, which allows you to see whether the agent is performing correctly. Unlike other attribute groups, the Performance Object Status attribute group does not reflect the state of the monitored application. This attribute group is most often used to determine why data is not available for one of the performance attribute groups.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Performance Object Status attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Query Name attribute: This attribute is a key attribute.

Description
The name of the attribute group.

Type String

Warehouse name
QUERY_NAME or ATTRGRP

Object Name attribute

Description
The name of the performance object.

Type String

Warehouse name
OBJECT_NAME or OBJNAME

Object Type attribute

Description
The type of the performance object.

Type Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- WMI (0)
- PERFMON (1)
- WMI ASSOCIATION GROUP (2)
- JMX (3)
- SNMP (4)
- SHELL COMMAND (5)
- JOINED GROUPS (6)
- CIMOM (7)
- CUSTOM (8)

- ROLLUP DATA (9)
- WMI REMOTE DATA (10)
- LOG FILE (11)
- JDBC (12)
- CONFIG DISCOVERY (13)
- NT EVENT LOG (14)
- FILTER (15)
- SNMP EVENT (16)
- PING (17)
- DIRECTOR DATA (18)
- DIRECTOR EVENT (19)
- SSH REMOTE SHELL COMMAND (20)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OBJECT_TYPE or OBJTYPE

Object Status attribute

Description
The status of the performance object.

Type Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ACTIVE (0)
- INACTIVE (1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OBJECT_STATUS or OBJSTTS

Error Code attribute

Description
The error code associated with the query.

Type Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO ERROR (0)
- GENERAL ERROR (1)
- OBJECT NOT FOUND (2)
- COUNTER NOT FOUND (3)
- NAMESPACE ERROR (4)
- OBJECT CURRENTLY UNAVAILABLE (5)
- COM LIBRARY INIT FAILURE (6)
- SECURITY INIT FAILURE (7)
- PROXY SECURITY FAILURE (9)
- NO INSTANCES RETURNED (10)
- ASSOCIATOR QUERY FAILED (11)

- REFERENCE QUERY FAILED (12)
- NO RESPONSE RECEIVED (13)
- CANNOT FIND JOINED QUERY (14)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 1 RESULTS (15)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 2 RESULTS (16)
- QUERY 1 NOT A SINGLETON (17)
- QUERY 2 NOT A SINGLETON (18)
- NO INSTANCES RETURNED IN QUERY 1 (19)
- NO INSTANCES RETURNED IN QUERY 2 (20)
- CANNOT FIND ROLLUP QUERY (21)
- CANNOT FIND ROLLUP ATTRIBUTE (22)
- FILE OFFLINE (23)
- NO HOSTNAME (24)
- MISSING LIBRARY (25)
- ATTRIBUTE COUNT MISMATCH (26)
- ATTRIBUTE NAME MISMATCH (27)
- COMMON DATA PROVIDER NOT STARTED (28)
- CALLBACK REGISTRATION ERROR (29)
- MDL LOAD ERROR (30)
- AUTHENTICATION FAILED (31)
- CANNOT RESOLVE HOST NAME (32)
- SUBNODE UNAVAILABLE (33)
- SUBNODE NOT FOUND IN CONFIG (34)
- ATTRIBUTE ERROR (35)
- CLASSPATH ERROR (36)
- CONNECTION FAILURE (37)
- FILTER SYNTAX ERROR (38)
- FILE NAME MISSING (39)
- SQL QUERY ERROR (40)
- SQL FILTER QUERY ERROR (41)
- SQL DB QUERY ERROR (42)
- SQL DB FILTER QUERY ERROR (43)
- PORT OPEN FAILED (44)
- ACCESS DENIED (45)
- TIMEOUT (46)
- NOT IMPLEMENTED (47)
- REQUESTED A BAD VALUE (48)
- RESPONSE TOO BIG (49)
- GENERAL RESPONSE ERROR (50)
- SCRIPT NONZERO RETURN (51)
- SCRIPT NOT FOUND (52)
- SCRIPT LAUNCH ERROR (53)
- CONF FILE DOES NOT EXIST (54)
- CONF FILE ACCESS DENIED (55)
- INVALID CONF FILE (56)

- EIF INITIALIZATION FAILED (57)
- CANNOT OPEN FORMAT FILE (58)
- FORMAT FILE SYNTAX ERROR (59)
- REMOTE HOST UNAVAILABLE (60)
- EVENT LOG DOES NOT EXIST (61)
- PING FILE DOES NOT EXIST (62)
- NO PING DEVICE FILES (63)
- PING DEVICE LIST FILE MISSING (64)
- SNMP MISSING PASSWORD (65)
- DISABLED (66)
- URLS FILE NOT FOUND (67)
- XML PARSE ERROR (68)
- NOT INITIALIZED (69)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ERROR_CODE or ERRCODE

RDB PGA Detail attribute group

The RDB PGA Detail Attribute Group provides detailed information about the PGA (Process Global Area) memory and the automatic PGA memory manager when it is enabled.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB PGA Detail attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Name attribute: This attribute is a key attribute.

Description
The name of the statistic.

Type String

Warehouse name
NAME

Value attribute

Description
The statistic value.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
VALUE

Unit attribute

Description
The unit for the value.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Bytes (bytes)
- Microseconds (microseconds)
- Percent (percent)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
UNIT

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB PGA Overview attribute group

The RDB PGA Overview attribute group provides usage statistics for the PGA (Process Global Area) memory, and statistics for the automatic PGA memory manager when it is enabled.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB PGA Overview attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Aggregate PGA Target (Bytes) attribute

Description
The current value of the PGA_AGGREGATE_TARGET initialization parameter (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AGGREGATE_PGA_TARGET_BYTES or AGPGATPABT

Aggregate PGA Target (KB) attribute

Description
The current value of the PGA_AGGREGATE_TARGET initialization parameter (in KB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AGGREGATE_PGA_TARGET_KB or AGPGATPAKB

Aggregate PGA Target (MB) attribute

Description
The current value of the PGA_AGGREGATE_TARGET initialization parameter (in MB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AGGREGATE_PGA_TARGET_MB or AGPGATPAMB

Aggregate PGA Auto Target (Bytes) attribute

Description
The amount of PGA memory that the Oracle database can use for work areas running in automatic mode (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AGGREGATE_PGA_AUTO_TARGET_BYTES or AGPGAATBT

Aggregate PGA Auto Target (KB) attribute

Description
The amount of PGA memory the Oracle database can use for work areas running in automatic mode (in KB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AGGREGATE_PGA_AUTO_TARGET_KB or AGPGAATKB

Aggregate PGA Auto Target (MB) attribute

Description
The amount of PGA memory the Oracle database can use for work areas that run in automatic mode (in MB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AGGREGATE_PGA_AUTO_TARGET_MB or AGPGAATMB

Global Memory Bound (Bytes) attribute

Description
The maximum size of a work area that is executed in automatic mode (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GLOBAL_MEMORY_BOUND_BYTES or GLBMEMBT

Global Memory Bound (KB) attribute

Description
The maximum size of a work area that is executed in automatic mode (in KB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GLOBAL_MEMORY_BOUND_KB or GLBMEMKB

Global Memory Bound (MB) attribute

Description
The maximum size of a work area that is executed in automatic mode (in MB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GLOBAL_MEMORY_BOUND_MB or GLBMEMMB

Total PGA Allocated (Bytes) attribute

Description
The current amount of PGA memory that is allocated by the instance (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_PGA_ALLOCATED_BYTES or TOTPGAALBT

Total PGA Allocated (KB) attribute

Description
The current amount of PGA memory that is allocated by the instance (in KB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_PGA_ALLOCATED_KB or TOTPGAALKB

Total PGA Allocated (MB) attribute

Description
The current amount of PGA memory that is allocated by the instance (in MB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_PGA_ALLOCATED_MB or TOTPGAALMB

Total PGA Inuse (Bytes) attribute

Description
The amount of PGA memory that is currently consumed by work areas (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_PGA_INUSE_BYTES or TOTPGAUSBT

Total PGA Inuse (KB) attribute

Description
The amount of PGA memory that is currently consumed by work areas (in KB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_PGA_INUSE_KB or TOTPGAUSKB

Total PGA Inuse (MB) attribute

Description
The amount of PGA memory that is currently consumed by work areas (in MB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_PGA_INUSE_MB or TOTPGAUSMB

Total PGA Free (Bytes) attribute

Description
The amount of PGA memory that is free (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_PGA_FREE_BYTES or TOPGAFREBT

Total PGA Free (KB) attribute

Description
The amount of PGA memory that is free (in KB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_PGA_FREE_KB or TOPGAFREKB

Total PGA Free (MB) attribute

Description
The amount of PGA memory that is free (in MB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_PGA_FREE_MB or TOPGAFREMB

Used For Auto Workareas (Bytes) attribute

Description
The amount of PGA memory that is currently consumed by work areas running under the automatic memory management mode (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USED_FOR_AUTO_WORKAREAS_BYTES or TOTPGAAWBT

Used For Auto Workareas (KB) attribute

Description
The amount of PGA memory that is currently consumed by work areas running under the automatic memory management mode (in KB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USED_FOR_AUTO_WORKAREAS_KB or TOTPGAAWKB

Used For Auto Workareas (MB) attribute

Description
The amount of PGA memory that is currently consumed by work areas running under the automatic memory management mode (in MB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USED_FOR_AUTO_WORKAREAS_MB or TOTPGAAWMB

Used For Manual Workareas (Bytes) attribute

Description
The amount of PGA memory that is currently consumed by work areas running under the manual memory management mode (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USED_FOR_MANUAL_WORKAREAS_BYTES or TOTPGAMWBT

Used For Manual Workareas (KB) attribute

Description
The amount of PGA memory that is currently consumed by work areas running under the manual memory management mode (in KB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USED_FOR_MANUAL_WORKAREAS_KB or TOTPGAMWKB

Used For Manual Workareas (MB) attribute

Description
The amount of PGA memory that is currently consumed by work areas running under the manual memory management mode (in MB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USED_FOR_MANUAL_WORKAREAS_MB or TOTPGAMWMB

Over Allocation Count attribute

Description
The number of over allocations of PGA memory. This statistic is cumulative since the instance startup.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OVER_ALLOCATION_COUNT or OVALLCNT

Processed (Bytes) attribute

Description
The number of bytes that are processed by memory intensive SQL operators. This value is cumulative since the instance startup.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PROCESSED_BYTES or PROCESBT

Processed (KB) attribute

Description
The number of bytes (in KB) that are processed by memory intensive SQL operators. This value is cumulative since the instance startup.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PROCESSED_KB or PROCESKB

Processed (MB) attribute

Description
The number of bytes (in MB) that are processed by memory intensive SQL operators. This value is cumulative since the instance startup.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PROCESSED_MB or PROCESMB

Extra RW (Bytes) attribute

Description
The number of bytes that are processed during extra passes of the input data. This value is cumulative since the instance startup.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
EXTRA_RW_BYTES or EXTRWBT

Extra RW (KB) attribute

Description
The number of bytes (in KB) that are processed during extra passes of the input data. This value is cumulative since the instance startup.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
EXTRA_RW_KB or EXTRWKB

Extra RW (MB) attribute

Description
The number of bytes (in MB) that are processed during extra passes of the input data. This value is cumulative since the instance startup.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
EXTRA_RW_MB or EXTRWMB

Cache Hit Percentage attribute

Description
The metric that is computed by the Oracle database to reflect the performance of the PGA memory component. This value is cumulated since the instance startup.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CACHE_HIT_PERCENTAGE or CACHHTPCT

Maximum PGA Allocated (Bytes) attribute

Description
The maximum amount of PGA memory that is allocated by the instance (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_PGA_ALLOCATED_BYTES or MAXPGAALBT

Maximum PGA Allocated (KB) attribute

Description
The maximum amount of PGA memory that is allocated by the instance (in KB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_PGA_ALLOCATED_KB or MAXPGAALKB

Maximum PGA Allocated (MB) attribute

Description
The maximum amount of PGA memory that is allocated by the instance (in MB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_PGA_ALLOCATED_MB or MAXPGAALMB

Total Freeable PGA Memory (Bytes) attribute

Description
The amount of the PGA memory that can be released (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_FREEABLE_PGA_MEMORY_BYTES or TOFRPGABT

Total Freeable PGA Memory (KB) attribute

Description
The amount of the PGA memory that can be released (in KB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_FREEABLE_PGA_MEMORY_KB or TOFRPGAKB

Total Freeable PGA Memory (MB) attribute

Description
The amount of the PGA memory that can be released (in MB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_FREEABLE_PGA_MEMORY_MB or TOFRPGAMB

Process Count attribute

Description
The number of processes in the instance.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PROCESS_COUNT or PROCESCNT

Max Processes Count attribute

Description
The maximum number of processes in the instance.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_PROCESSES_COUNT or MAXPROCNT

PGA Freed (Bytes) attribute

Description
The amount of the PGA memory that is released to the operating system (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_FREED_BYTES or PGABTOSBT

PGA Freed (KB) attribute

Description
The amount of the PGA memory that is released to the operating system (in KB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_FREED_KB or PGABTOSKB

PGA Freed (MB) attribute

Description
The amount of the PGA memory that is released to the operating system (in MB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_FREED_MB or PGABTOSMB

Max Used For Auto Workareas (Bytes) attribute

Description
The maximum amount of the PGA memory that is used for automatic work areas (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_USED_FOR_AUTO_WORKAREAS_BYTES or MAXPGAAWBT

Max Used For Auto Workareas (KB) attribute

Description
The maximum amount of the PGA memory that is used for automatic work areas (in KB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_USED_FOR_AUTO_WORKAREAS_KB or MAXPGAAWKB

Max Used For Auto Workareas (MB) attribute

Description
The maximum amount of the PGA memory that is used for automatic work areas (in MB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_USED_FOR_AUTO_WORKAREAS_MB or MAXPGAAWMB

Max Used For Manual Workareas (Bytes) attribute

Description
The maximum amount of the PGA memory that is used for manual work areas (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_USED_FOR_MANUAL_WORKAREAS_BYTES or MAXPGAMWBT

Max Used For Manual Workareas (KB) attribute

Description
The maximum amount of the PGA memory that is used for manual work areas (in KB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_USED_FOR_MANUAL_WORKAREAS_KB or MAXPGAMWKB

Max Used For Manual Workareas (MB) attribute

Description
The maximum amount of the PGA memory that is used for manual work areas (in MB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_USED_FOR_MANUAL_WORKAREAS_MB or MAXPGAMWMB

Total Recompute Count attribute

Description
The total recompute count.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_RECOMPUTE_COUNT or TORECMPCNT

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB PGA Target Advice attribute group

The RDB PGA Target Advice attribute group predicts how the cache hit percentage and over allocation count statistics are impacted if the value of the PGA_AGGREGATE_TARGET parameter is changed when the value of the WORKAREA_SIZE_POLICY parameter is AUTO.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB PGA Target Advice attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

PGA Target For Estimate(Bytes) attribute: This attribute is a key attribute.

Description
The value of the PGA_AGGREGATE_TARGET parameter for this prediction (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_TARGET_FOR_ESTIMATE_BYTES or PGATARFET

PGA Target For Estimate(KB) attribute: This attribute is a key attribute.

Description
The value of the PGA_AGGREGATE_TARGET parameter for this prediction (in KB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_TARGET_FOR_ESTIMATE_KB or PGATGFEKB

PGA Target For Estimate(MB) attribute: This attribute is a key attribute.

Description
The value of the PGA_AGGREGATE_TARGET parameter for this prediction (in MB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_TARGET_FOR_ESTIMATE_MB or PGATGFEMB

PGA Target Factor attribute

Description
The current value of the PGA_AGGREGATE_TARGET parameter.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_TARGET_FACTOR or PGATARFAC

Advice Status attribute

Description
Indicates whether the advice is enabled or disabled depending on the value of the STATISTICS_LEVEL parameter.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- On (ON)
- Off (OFF)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ADVICE_STATUS or ADVCSTA

Processed(Bytes) attribute

Description
The total bytes that are processed by all the work areas that are considered by this advice (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BYTES_PROCESSED or BTSPROCESD

Processed(KB) attribute

Description
The total bytes that are processed by all the work areas that are considered by this advice (in KB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
KB_PROCESSED or PROCESDKB

Processed(MB) attribute

Description
The total bytes that are processed by all the work areas that are considered by this advice (in MB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MB_PROCESSED or PROCESDMB

Estimated Time attribute

Description
The time (in seconds) that is required to process the bytes.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ESTIMATED_TIME or ESTDTIME

Estimated Extra RW (Bytes) attribute

Description
The estimated number of extra bytes that are read or written if the value of the PGA_AGGREGATE_TARGET parameter is set to the value in the PGA_TARGET_FOR_ESTIMATE column.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ESTIMATED_EXTRA_BYTES_RW or ESTDEXBTRW

Estimated Extra RW (KB) attribute

Description
The estimated number of extra bytes (in KB) that are read or written if the value of the PGA_AGGREGATE_TARGET parameter is set to the value in the PGA_TARGET_FOR_ESTIMATE column.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ESTIMATED_EXTRA_KB_RW or EDEXKBRW

Estimated Extra RW (MB) attribute

Description
The estimated number of extra bytes (in MB) that are read or written if the value of the PGA_AGGREGATE_TARGET parameter is set to the value in the PGA_TARGET_FOR_ESTIMATE column.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ESTIMATED_EXTRA_MB_RW or EDEXMBRW

Estimated Hit Percentage attribute

Description
The estimated value of the cache hit percentage when the value of the PGA_AGGREGATE_TARGET parameter equals the value of the PGA_TARGET_FOR_ESTIMATE parameter.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ESTIMATED_HIT_PERCENTAGE or EDPGAHTPER

Estimated Overalloc Count attribute

Description
The estimated number of over allocations of PGA memory if the value of the PGA_AGGREGATE_TARGET parameter is set to the value in the PGA_TARGET_FOR_ESTIMATE column.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ESTIMATED_OVERALLOC_COUNT or EDOVALCNT

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Process Detail attribute group

The RDB Process Detail attribute group provides information about currently active processes.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RDB Process Detail attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

User Name attribute

Description
The user name for the operating system process.

Type String

Warehouse name
USER_NAME or USERNAME

Program attribute

Description
The program in progress.

Type String

Warehouse name
PROGRAM

Background Process Name attribute

Description
The name of the background process.

Type String

Warehouse name
BACKGROUND_PROCESS_NAME or BGPROCNAME

Process ID attribute

Description
The identifier for the Oracle process.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PROCESS_ID or PID

System Process ID attribute

Description
The identifier for the operating system process.

Type String

Warehouse name
SYSTEM_PROCESS_ID or SPID

Serial Number attribute

Description
The serial number for the process.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SERIAL_NUMBER or SERIALNUM

Terminal attribute

Description
The identifier for the operating system terminal.

Type String

Warehouse name
TERMINAL

Background attribute

Description
If the process is a background process, the value is Yes; if the process is a typical one, the value is No.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (Yes)

- No (No)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BACKGROUND or ISBACKG

Latch Wait attribute

Description
The address of the latch for which the process is waiting.

Type String

Warehouse name
LATCH_WAIT or LATCHWAIT

Latch Spin attribute

Description
The address of the latch on which the process is spinning.

Type String

Warehouse name
LATCH_SPIN or LATCHSPIN

PGA Memory Used (Bytes) attribute

Description
The amount of PGA memory (in bytes) that is currently used by the process.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_MEMORY_USED_BYTES or PGAUSED

PGA Memory Used (KB) attribute

Description
The amount of PGA memory (in KB) that is currently used by the process.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_MEMORY_USED_KB or PGAUSEDKB

PGA Memory Allocated (Bytes) attribute

Description

The amount of PGA memory (in bytes) that is currently allocated by the process, including the free PGA memory that is not yet released to the operating system by the server process.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PGA_MEMORY_ALLOCATED_BYTES or PGAALLOC

PGA Memory Allocated (KB) attribute

Description

The amount of PGA memory (in KB) that is currently allocated by the process, including the free PGA memory that is not yet released to the operating system by the server process.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PGA_MEMORY_ALLOCATED_KB or PGAALLOCKB

PGA Memory Free (Bytes) attribute

Description

The amount of allocated PGA memory (in bytes) that can be freed.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

PGA_MEMORY_FREE_BYTES or PGAFREEABL

PGA Memory Free (KB) attribute

Description
The amount of allocated PGA memory (in KB) that can be freed.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_MEMORY_FREE_KB or PGAFREEAKB

PGA Memory Max (Bytes) attribute

Description
The maximum amount of PGA memory (in bytes) that is allocated by the process.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_MEMORY_MAX_BYTES or PGAMAX

PGA Memory Max (KB) attribute

Description
The maximum amount of PGA memory (in KB) that is allocated by the process.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PGA_MEMORY_MAX_KB or PGAMAXKB

Background Process Description attribute

Description
The description of the background process.

Type String

Warehouse name
BACKGROUND_PROCESS_DESCRIPTION or BGDESC

Background Process Error attribute

Description
The error that the background process encountered.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BACKGROUND_PROCESS_ERROR or BGERROR

Address attribute

Description
The address of the process state object.

Type String

Warehouse name
ADDRESS or ADDR

Trace File ID attribute

Description
The trace file identifier for the process.

Type String

Warehouse name
TRACE_FILE_ID or TRACEID

Trace File attribute

Description
The trace file name for the process.

Type String

Warehouse name
TRACE_FILE or TRACEFILE

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Process Summary attribute group

The RDB Process Summary attribute group provides aggregate process statistics.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Process Summary attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute

Description
The identifier for the instance.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Total Foreground attribute

Description
The number of foreground processes that are active.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_FOREGROUND or NFOREGRND

Total Background attribute

Description
The number of background processes that are active.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_BACKGROUND or NBACKG

Pct of Foreground in Total (%) attribute

Description
The percentage of foreground processes in total processes that are active.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PCT_FOREGROUND_TOTAL or PFORTOT

Total Processes attribute

Description
The number of processes that are active for the server instance.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_PROCESSES or TOTPROCESS

Max Processes Allowed attribute

Description
The maximum number of processes that are allowed for the server instance.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- UNLIMITED (UNLIMITED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_PROCESSES_ALLOWED or LIMITPROC

Pct of Total in Limit (%) attribute

Description
The percentage of total processes that are active in the maximum processes that are allowed.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PCT_TOTAL_LIMIT or PTOTLIMIT

Max Processes Utilized attribute

Description
The maximum consumption of processes since the last instance startup.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_PROCESSES_UTILIZED or MAXUTILI

Total Latch Wait attribute

Description
The number of processes that are waiting for a latch.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_LATCH_WAIT or NLATCHWAIT

Total Latch Spin attribute

Description
The number of processes that are spinning on a latch.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_LATCH_SPIN or NLATCHSPIN

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Recovery File Dest attribute group

This attribute group provides information about the disk quota and current disk usage for the flash recovery area.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Recovery File Dest attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Name attribute: This attribute is a key attribute.

Description
The location name for the flash recovery area.

Type String

Warehouse name
NAME

Space Limit (bytes) attribute

Description
The maximum amount of disk space (in bytes) that the database can use for the flash recovery area.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SPACE_LIMIT or SPACELIMIT

Space Limit (MB) attribute

Description
Maximum amount of disk space (in MB) that the database can use for the flash recovery area.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SPACE_LIMIT_MB or LIMITMB

Space Used (bytes) attribute

Description
Amount of disk space (in bytes) used by the flash recovery area files.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SPACE_USED or SPACEUSED

Space Used (MB) attribute

Description
Amount of disk space (in MB) used by the flash recovery area files.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SPACE_USED_MB or USEDMB

Space Reclaimable (bytes) attribute

Description
Total amount of disk space (in bytes) that can be created by deleting obsolete, redundant, and other low priority files from the flash recovery area.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SPACE_RECLAIMABLE or SPACECLAIM

Space Reclaimable (MB) attribute

Description
Total amount of disk space (in MB) that can be created by deleting obsolete, redundant, and other low priority files from the flash recovery area.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SPACE_RECLAIMABLE_MB or CLAIMMB

Space Used(%) attribute

Description
The percentage of space used in the flash recovery area.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USED_PERCENTAGE or USEDPCT

Reclaimable (%) attribute

Description
The percentage of space that can be reclaimed in the flash recovery area.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CLAIM_PERCENTAGE or CLAIMPCT

Free Space (%) attribute

Description
The percentage of space that is free or can be reclaimed in the flash recovery area.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_PERCENTAGE or FREEPCT

Number of Files attribute

Description
Number of files in the flash recovery area.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUMBER_OF_FILES or NUMFILES

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Resource Limitation attribute group

The RDB Resource Limitation attribute group provides information about the global resource usage for some system resources.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Resource Limitation attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier of the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Resource Name attribute: This attribute is a key attribute.

Description
The name of the resource.

Type String

Warehouse name
RESOURCE_NAME or RESNAME

Resource ID attribute: This attribute is a key attribute.

Description
The identifier of the resource with instance ID and resource name.

Type String

Warehouse name
RESOURCE_ID or RESID

Current Utilization attribute

Description
The number of resources, locks, or processes that are currently being used.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CURRENT_UTILIZATION or CURUTIL

Maximum Utilization attribute

Description
The maximum consumption of this resource since the last instance startup.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_UTILIZATION or MAXUTIL

Initial Allocation attribute

Description
The value of initial allocation. This value is equal to the value that is specified for the resource in the initialization parameter file; the value is UNLIMITED for an infinite allocation.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Unlimited (UNLIMITED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INITIAL_ALLOCATION or INIALOC

Limit Value attribute

Description
The value is unlimited for resources and locks. It can be greater than the initial allocation value; the value is UNLIMITED for infinite limit.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Unlimited (UNLIMITED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LIMIT_VALUE or LIMITVA

% Current Utilization attribute

Description
The ratio (as a percentage) of the current consumption of resources to the limit value.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CURRENT_UTILIZATION_RATIO or CURRATIO

% Maximum Utilization attribute

Description
The ratio (as a percentage) of the maximum consumption of resources to the limit value.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_UTILIZATION_RATIO or MAXRATIO

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Rollback Segment Detail attribute group

The RDB Rollback Segment Detail attribute group provides detailed information about rollback segments, including extents number, size, bytes written, and other items.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Rollback Segment Detail attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INST_ID

Rollback Segment Number attribute: This attribute is a key attribute.

Description
The number of the rollback segment; the value is 0 for a SYSTEM rollback segment.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ROLLBACK_SEGMENT_NUMBER or USN

Rollback Segment Name attribute: This attribute is a key attribute.

Description
The name of the rollback segment.

Type String

Warehouse name
ROLLBACK_SEGMENT_NAME or NAME

Number Extents attribute

Description
The number of the extents in the rollback segment.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUMBER_EXTENTS or EXTENTS

Rollback Segment Size (KB) attribute

Description
The size (in KB) of the rollback segment.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ROLLBACK_SEGMENT_SIZE or RBSSZ

Bytes Written attribute

Description
The number of bytes that are written to the rollback segment.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BYTES_WRITTEN or BWRITE

Number of Active Transactions attribute

Description
The number of active transactions using this rollback segment.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUMBER_ACTIVE_TRANSACTIONS or TRANS

Header Waits attribute

Description
The number of rollback segment header requests that resulted in waits.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
HEADER_WAITS or HDRW

Header Gets attribute

Description
The number of rollback segment header requests and gets.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
HEADER_GETS or HDRG

Buffer Busy Wait Pct (%) attribute

Description
The ratio (as a percentage) of rollback segment header requests that resulted in waits to all header requests.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BUFFER_BUSY_WAIT_PCT or WAITPCT

Optimal Size (Bytes) attribute

Description
The optimal size of the rollback segment.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OPTIMAL_SIZE or OPTIMAL

High Water Mark Size (Bytes) attribute

Description
The high-watermark size (in bytes) of the rollback segment.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
HIGH_WATER_MARK_SIZE or HWMSZ

Segment Shrinks attribute

Description
The number of times that the size of a rollback segment decreases.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SEGMENT_SHRINKS or SSHRINKS

Segment Wraps attribute

Description
The number of times that the rollback segment is wrapped.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SEGMENT_WRAPS or SWRAPS

Segment Extends attribute

Description
The number of times the rollback segment size is extended.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SEGMENT_EXTENDS or SEXTENDS

Avg Shrink Size (Bytes) attribute

Description
The average shrink size (in bytes) of rollback segments.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVG_SHRINK_SIZE or AVGSHRINK

Avg Active Extents Size (Bytes) attribute

Description
The current size (in bytes) of active extents; this value is averaged over time.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVG_ACTIVE_EXTENTS_SIZE or AVGACTIVE

Segment Status attribute

Description
The status of the rollback segment.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Online (ONLINE)

- PENDING OFFLINE (PENDING OFFLINE)
- Offline (OFFLINE)
- Full (FULL)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SEGMENT_STATUS or STATUS

Current Extent Number attribute

Description
The current extent number to which the rollback is currently writing. Showing the position of the current block or high water mark that is used in the rollback segment is helpful.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CURRENT_EXTENT_NUMBER or CUREXT

Current Block Number attribute

Description
The current block number to which the rollback is writing.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CURRENT_BLOCK_NUMBER or CURBLOCK

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Rollback Segment Summary attribute group

The RDB Rollback Segment Summary attribute group provides aggregate rollback segment statistics, grouped by instance.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Rollback Segment Summary attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INST_ID

Total Online Rollback Segments attribute

Description
The total number of rollback segments with the status of ONLINE.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_ONLINE_ROLLBACK_SEGMENTS or TONLINE

Total Rollback Segments attribute

Description
The total number of rollback segments.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_ROLLBACK_SEGMENTS or TRBS

Total Rollback Segments Needing Recovery attribute

Description
The total number of rollback segments with the status of NEEDS RECOVERY. These are rollback segments that contain data that cannot be rolled back or corrupted.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_SEGMENTS_NEEDING_RECOVERY or NRECOVER

Total Rollback Segments Pending Offline attribute

Description
The total number of rollback segments with the status of PENDING OFFLINE. A segment is in PENDING OFFLINE status when it is going offline but some active (distributed) transactions are using it. When the transaction completes, the segment goes offline.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_SEGMENTS_PENDING_OFFLINE or TPENDING

Total Rollback Extents attribute

Description
The total number of rollback extents.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_ROLLBACK_EXTENTS or TEXTENTS

Average Extents Per Rollback Segment attribute

Description
The average number of the extents per rollback segment.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVG_EXTENTS_PER_SEGMENT or AVGEXTS

Size of Active Rollback Segments (KB) attribute

Description
The total size (in KB) of all active rollback segments.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SIZE_OF_ACTIVE_SEGMENTS or RBSSZ

Total Active Transactions attribute

Description
The total number of active transactions across all rollback segments.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_ACTIVE_TRANSACTIONS or TTRANS

Average Transactions Per Segment attribute

Description
The average number of active transactions assigned per rollback segment.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVG_TRANSACTIONS_PER_SEGMENT or ATRANS

Buffer Busy Wait Pct (%) attribute

Description
The percentage of header requests that resulted in waits in all header requests. Check that the buffer busy waits value is lower than 1%. When the buffer busy waits grow to greater than 1%, it implies contention for rollback segments table free lists.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BUFFER_BUSY_WAIT_PCT or WAITPCT

Total Header Waits attribute

Description
The total number of rollback segment header requests that resulted in waits.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_HEADER_WAITS or THDRW

Total Header Gets attribute

Description
The total number of rollback segment header requests and gets.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_HEADER_GETS or THDRG

Total Rollback Segment Shrinks attribute

Description
The total number of times that a rollback segment shrinks and eliminates additional extents.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_SEGMENT_SHRINKS or SSHRINKS

Total Rollback Segment Extends attribute

Description
The total number of times that a rollback segment size is extended.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_SEGMENT_EXTENDS or SEXTENDS

Percent RBS Needing Recovery (%) attribute

Description
The percentage for active rollback segments that require recovery.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PCT_SEGMENT_NEEDING_RECOVERY or PRECOVRBS

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Segment Allocation attribute group

The RDB Segment Allocation attribute group provides information about the storage allocated for all segments in the database.

Historical group

This attribute group is not eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RDB Segment Allocation attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Segment Owner attribute: This attribute is a key attribute.

Description
The owner name of the segment.

Type String

Segment Name attribute: This attribute is a key attribute.

Description
The name of the segment, if there is a name.

Type String

Partition Name attribute

Description
The object partition name; for non-partitioned objects, the value is NULL.

Type String

Segment Type attribute

Description
The type of segment.

Type String

LOB Segment Subtype attribute

Description
The subtype of LOB segment; the valid values are SECUREFILE, ASSM, MSSM, and NULL. This attribute is available in Oracle 11.1 or later versions.

Type String

Tablespace Name attribute

Description
The name of the table space that contains the segment.

Type String

Header File ID attribute

Description
The identifier for the file that contains the segment header.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Header Block ID attribute

Description
The identifier for the block that contains the segment header.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Segment Size (Bytes) attribute

Description
The size (in bytes) of the segment.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Segment Size (KB) attribute

Description
The size (in KB) of the segment.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Segment Size (MB) attribute

Description
The size (in MB) of the segment.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Block Size attribute

Description
The size (in Oracle blocks) of the segment.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Extents Number attribute

Description
The number of extents that are allocated to the segment.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Initial Extent Size (Bytes) attribute

Description
The size (in bytes) that is requested for the initial extent of the segment at create time.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Next Extent (Bytes) attribute

Description
The size (in bytes) of the next extent that is allocated to the segment.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Minimum Extents Number attribute

Description
The minimum number of extents that are allowed in the segment.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Maximum Extents Number attribute

Description
The maximum number of extents that are allowed in the segment.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Maximum Block Number attribute

Description
The maximum number of blocks that are allowed in the segment. This attribute is available in Oracle 11.1 or later versions.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Retention attribute

Description
The retention option for the SECUREFILE segment. This attribute is available in Oracle 11.1 or later versions.

Type String

Minimum Retention Duration attribute

Description
The minimum retention duration for the SECUREFILE segment. This attribute is available in Oracle 11.1 or later versions.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Increase Percentage attribute

Description
The percentage by which to increase the size of the next extent that is allocated.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Process Freelists Number attribute

Description
The number of process free lists that are allocated to this segment.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Freelist Groups Number attribute

Description
The number of free list groups that are allocated to this segment.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Relative File Number attribute

Description
The relative file number for the segment header.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Default Buffer Pool attribute

Description
The default buffer pool for the object.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Default (DEFAULT)
- Keep (KEEP)
- Recycle (RECYCLE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Free Extents attribute

Description
The number of free extents that are allowed in the segment.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

% Free Extents attribute

Description
The percentage of the free extents number that is in the maximum extents number.

Type Real number (64-bit numeric property) with 2 decimal places of precision with

enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

RDB Segment Statistics attribute group

The RDB Segment Statistics attribute group provides the segment-level statistics.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Segment Statistics attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Object Owner attribute: This attribute is a key attribute.

Description
The owner of the object.

Type String

Warehouse name
OBJECT_OWNER or OWNER

Object Name attribute: This attribute is a key attribute.

Description
The name of the object.

Type String

Warehouse name
OBJECT_NAME or OBJNAME

Subobject Name attribute

Description
The name of the subobject.

Type String

Warehouse name
SUBOBJECT_NAME or SUBOBJN

Tablespace Name attribute

Description
The name of the table space to which the object belongs.

Type String

Warehouse name
TABLESPACE_NAME or TSNAME

Tablespace Number attribute

Description
The number for the table space.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TABLESPACE_NUMBER or TSNUM

Object Number attribute

Description
The dictionary object number for the object.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OBJECT_NUMBER or OBJNUM

Data Object Number attribute

Description
The data object number for the object.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DATA_OBJECT_NUMBER or DATAOBJNUM

Object Type attribute

Description
The type of object.

Type String

Warehouse name
OBJECT_TYPE or OBJTYPE

Statistic Value attribute

Description
The value of the statistic.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATISTIC_VALUE or VALUE

Statistic Number attribute

Description
The number for the statistic.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATISTIC_NUMBER or STAT

Statistic Name attribute

Description
The name of the statistic.

Type String

Warehouse name
STATISTIC_NAME or STATNAME

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Session Details attribute group

The RDB Session Details attribute group provides detailed information about sessions.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RDB Session Details attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INST_ID

Session Address attribute

Description
The address of the session.

Type String

Warehouse name
SESSION_ADDRESS or SADDR

Session ID attribute: This attribute is a key attribute.

Description
The identifier for the session.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SESSION_ID or SID

Serial Number attribute

Description
The serial number for the session.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SERIAL_NUMBER or SERIALNUM

Auditing SID attribute

Description
The auditing session ID.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AUDITING_SID or AUDSID

Process Address attribute

Description
The address of the process that owns the session.

Type String

Warehouse name
PROCESS_ADDRESS or PADDR

User ID attribute

Description
The identifier for Oracle user.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USER_ID or USERNUM

Username attribute

Description
The name of the Oracle user.

Type String

Warehouse name
USERNAME

Command attribute

Description
The command in progress, which is the last statement that is parsed.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)
- 0 (0)
- CREATE TABLE (1)
- INSERT (2)
- SELECT (3)
- CREATE CLUSTER (4)
- ALTER CLUSTER (5)
- UPDATE (6)
- DELETE (7)
- DROP CLUSTER (8)
- CREATE INDEX (9)
- DROP INDEX (10)
- ALTER INDEX (11)
- DROP TABLE (12)
- CREATE SEQUENCE (13)
- ALTER SEQUENCE (14)
- ALTER TABLE (15)
- DROP SEQUENCE (16)
- GRANT OBJECT (17)
- REVOKE OBJECT (18)
- CREATE SYNONYM (19)
- DROP SYNONYM (20)
- CREATE VIEW (21)
- DROP VIEW (22)
- VALIDATE INDEX (23)
- CREATE PROCEDURE (24)
- ALTER PROCEDURE (25)

- LOCK (26)
- NO-OP (27)
- RENAME (28)
- COMMENT (29)
- AUDIT OBJECT (30)
- NOAUDIT OBJECT (31)
- CREATE DATABASE LINK (32)
- DROP DATABASE LINK (33)
- CREATE DATABASE (34)
- ALTER DATABASE (35)
- CREATE ROLLBACK SEG (36)
- ALTER ROLLBACK SEG (37)
- DROP ROLLBACK SEG (38)
- CREATE TABLESPACE (39)
- ALTER TABLESPACE (40)
- DROP TABLESPACE (41)
- ALTER SESSION (42)
- ALTER USER (43)
- COMMIT (44)
- ROLLBACK (45)
- SAVEPOINT (46)
- PL/SQL EXECUTE (47)
- SET TRANSACTION (48)
- ALTER SYSTEM (49)
- EXPLAIN (50)
- CREATE SER (51)
- CREATE ROLE (52)
- DROP USER (53)
- DROP ROLE (54)
- SET ROLE (55)
- CREATE SCHEMA (56)
- CREATE CONTROL FILE (57)
- CREATE TRIGGER (59)
- ALTER TRIGGER (60)
- DROP TRIGGER (61)
- ANALYZE TABLE (62)
- ANALYZE INDEX (63)
- ANALYZE CLUSTER (64)
- CREATE PROFILE (65)
- DROP PROFILE (66)
- ALTER PROFILE (67)
- DROP PROCEDURE (68)
- ALTER RESOURCE COST (70)
- CREATE MATERIALIZED VIEW LOG (71)
- ALTER MATERIALIZED VIEW LOG (72)

- DROP MATERIALIZED VIEW LOG (73)
- CREATE MATERIALIZED VIEW (74)
- ALTER MATERIALIZED VIEW (75)
- DROP MATERIALIZED VIEW (76)
- CREATE TYPE (77)
- DROP TYPE (78)
- ALTER ROLE (79)
- ALTER TYPE (80)
- CREATE TYPE BODY (81)
- ALTER TYPE BODY (82)
- DROP TYPE BODY (83)
- DROP LIBRARY (84)
- TRUNCATE TABLE (85)
- TRUNCATE CLUSTER (86)
- CREATE FUNCTION (91)
- ALTER FUNCTION (92)
- DROP FUNCTION (93)
- CREATE PACKAGE (94)
- ALTER PACKAGE (95)
- DROP PACKAGE (96)
- CREATE PACKAGE BODY (97)
- ALTER PACKAGE BODY (98)
- DROP PACKAGE BODY (99)
- LOGON (100)
- LOGOFF (101)
- LOGOFF BY CLEANUP (102)
- SESSION REC (103)
- SYSTEM AUDIT (104)
- SYSTEM NOAUDIT (105)
- AUDIT DEFAULT (106)
- NOAUDIT DEFAULT (107)
- SYSTEM GRANT (108)
- SYSTEM REVOKE (109)
- CREATE PUBLIC SYNONYM (110)
- DROP PUBLIC SYNONYM (111)
- CREATE PUBLIC DATABASE LINK (112)
- DROP PUBLIC DATABASE LINK (113)
- GRANT ROLE (114)
- REVOKE ROLE (115)
- EXECUTE PROCEDURE (116)
- USER COMMENT (117)
- ENABLE TRIGGER (118)
- DISABLE TRIGGER (119)
- ENABLE ALL TRIGGERS (120)
- DISABLE ALL TRIGGERS (121)

- NETWORK ERROR (122)
- EXECUTE TYPE (123)
- CREATE DIRECTORY (157)
- DROP DIRECTORY (158)
- CREATE LIBRARY (159)
- CREATE JAVA (160)
- ALTER JAVA (161)
- DROP JAVA (162)
- CREATE OPERATOR (163)
- CREATE INDEXTYPE (164)
- DROP INDEXTYPE (165)
- DROP OPERATOR (167)
- ASSOCIATE STATISTICS (168)
- DISASSOCIATE STATISTICS (169)
- CALL METHOD (170)
- CREATE SUMMARY (171)
- ALTER SUMMARY (172)
- DROP SUMMARY (173)
- CREATE DIMENSION (174)
- ALTER DIMENSION (175)
- DROP DIMENSION (176)
- CREATE CONTEXT (177)
- DROP CONTEXT (178)
- ALTER OUTLINE (179)
- CREATE OUTLINE (180)
- DROP OUTLINE (181)
- UPDATE INDEXES (182)
- ALTER OPERATOR (183)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
COMMAND

Owner ID attribute

Description
The identifier for the user who owns the session to be migrated. The contents are invalid if the value is 2147483644.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OWNER_ID or OWNERID

Block Gets attribute

Description
The number of block gets for this session.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCK_GETS or BLOCKGETS

Consistent Gets attribute

Description
The number of consistent gets for this session.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CONSISTENT_GETS or CONSTGETS

Physical Reads attribute

Description
The number of physical reads for this session.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PHYSICAL_READS or PHYSREADS

Session Hit Percent (%) attribute

Description
The data cache hit percentage for this session. The value is calculated as the number of logical gets (block_gets plus consistent_gets) minus physical reads divided by the number of logical gets.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SESSION_HIT_PERCENT or SESSHITPER

Block Changes attribute

Description
The block changes for this session.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCK_CHANGES or BLKCHGS

Consistent Changes attribute

Description
The consistent changes for this session.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CONSISTENT_CHANGES or CONSCHNGS

Transaction State Object Address attribute

Description
The address of the transaction state object.

Type String

Warehouse name
TRANSACTION_STATE_OBJECT_ADDRESS or TADDR

Lock Wait attribute

Description
The address of the lock for which the session is waiting.

Type String

Warehouse name
LOCK_WAIT or LOCKWAIT

Status attribute

Description
The status of the session.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Active (ACTIVE)
- Inactive (INACTIVE)
- Killed (KILLED)
- Cached (CACHED)
- Sniped (SNIPED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS

SQL Address attribute

Description
Use this attribute with the SQL Hash Value attribute to identify the SQL statement that is currently running.

Type String

Warehouse name
SQL_ADDRESS or SQLADDRESS

SQL Hash Value attribute

Description
Use this attribute with the SQL Address attribute to identify the SQL statement that is currently running.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SQL_HASH_VALUE or SQLHASHVAL

SQL ID attribute

Description
The SQL identifier for the SQL statement that is currently running.

Type String

Warehouse name
SQL_ID

SQL Child Number attribute

Description
The child number of the SQL statement that is currently running.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SQL_CHILD_NUMBER or SQLHASHNUM

Previous SQL Address attribute

Description
Use this attribute with the Previous Hash Value attribute to identify the last SQL statement that ran.

Type String

Warehouse name
PREVIOUS_SQL_ADDRESS or PRVSQLADDR

Previous SQL Value attribute

Description
Use this attribute with the SQL Hash Value attribute to identify the last SQL statement that ran.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PREVIOUS_SQL_VALUE or PRVSQLVAL

Previous SQL ID attribute

Description
The SQL identifier for the last SQL statement that ran.

Type String

Warehouse name
PREVIOUS_SQL_ID or PRVSQLID

Previous SQL Number attribute

Description
The child number for the last SQL statement that ran.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PREVIOUS_SQL_NUMBER or PRVSQLNUM

Module attribute

Description
The name of the currently executing module that is set by calling the DBMS_APPLICATION_INFO.SET_MODULE procedure.

Type String

Warehouse name
MODULE

Module Hash attribute

Description
The hash value of the MODULE column.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MODULE_HASH or MODULEHASH

Action attribute

Description
The name of the currently running action that is set by calling the DBMS_APPLICATION_INFO.SET_ACTION procedure.

Type String

Warehouse name
ACTION

Action Hash attribute

Description
The hash value of the ACTION column.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ACTION_HASH or ACTIONHASH

Client Information attribute

Description
The information that is set by the DBMS_APPLICATION_INFO.SET_CLIENT_INFO procedure.

Type String

Warehouse name
CLIENT_INFORMATION or CLIENTINFO

Fixed Table Sequence attribute

Description
A number that increases every time the session completes a call to the database and there was an intervening select from a dynamic performance table.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FIXED_TABLE_SEQUENCE or FIXEDTBSEQ

Row Wait Object Number attribute

Description
The object ID for the table that contains the row that is specified in the Row Wait Row Number attribute.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ROW_WAIT_OBJECT_NUMBER or WAITOBJNUM

Row Wait File Number attribute

Description
The identifier for the data file that contains the row specified in the Row Wait Row Number attribute; this attribute value is valid only if the session is currently waiting for another transaction to commit and the value of ROW_WAIT_OBJ# is not -1.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ROW_WAIT_FILE_NUMBER or WAITFILNUM

Row Wait Block Number attribute

Description
The identifier for the block that contains the row specified in the Row Wait Row Number attribute; this value is valid only if the session is currently waiting for another transaction to commit and the value of Row Wait Object Number attribute is not -1.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ROW_WAIT_BLOCK_NUMBER or WAITBLKNUM

Row Wait Row Number attribute

Description
The current number of the row that is being locked; this attribute value is valid only if the session is currently waiting for another transaction to commit and the value of the Row Wait Object Number attribute is not -1.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ROW_WAIT_ROW_NUMBER or WAITROWNUM

Blocking Session Status attribute

Description
The status of the blocking session.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Valid (VALID)
- NO HOLDER (NO HOLDER)
- Global (GLOBAL)
- NOT IN WAIT (NOT IN WAIT)
- Unknown (UNKNOWN)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCKING_SESSION_STATUS or BLKSESSSTA

Blocking Instance attribute

Description
The instance identifier of the blocking session. This attribute is available in Oracle 10.2 or later versions.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCKING_INSTANCE or BLKINST

Blocking Session attribute

Description
The identifier for the blocking session.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCKING_SESSION or BLKSESS

Sequence Number attribute

Description
The number that uniquely identifies the current or last wait.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SEQUENCE_NUMBER or SEQNUM

Event Number attribute

Description
The number for the event.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
EVENT_NUMBER or EVENTNUM

Event attribute

Description
The resource or event for which the session is waiting.

Type String

Warehouse name
EVENT

Parameter 1 Description attribute

Description
The description of the first wait event parameter.

Type String

Warehouse name
PARAMETER_1_DESCRIPTION or P1TEXT

Parameter 1 (in decimal) attribute

Description
The first wait event parameter (in decimal).

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PARAMETER_1_IN_DECIMAL or P1

Parameter 1 (in hexadecimal) attribute

Description
The first wait event parameter (in hexadecimal).

Type String

Warehouse name
PARAMETER_1_IN_HEXADECIMAL or P1RAW

Parameter 2 Description attribute

Description
The description of the second wait event parameter.

Type String

Warehouse name
PARAMETER_2_DESCRIPTION or P2TEXT

Parameter 2 (in decimal) attribute

Description
The second wait event parameter (in decimal).

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PARAMETER_2_IN_DECIMAL or P2

Parameter 2 (in hexadecimal) attribute

Description
The second wait event parameter (in hexadecimal).

Type String

Warehouse name
PARAMETER_2_IN_HEXADECIMAL or P2RAW

Parameter 3 Description attribute

Description
The description of the third wait event parameter.

Type String

Warehouse name
PARAMETER_3_DESCRIPTION or P3TEXT

Parameter 3 (in decimal) attribute

Description
The third wait event parameter (in decimal).

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PARAMETER_3_IN_DECIMAL or P3

Parameter 3 (in hexadecimal) attribute

Description
The third wait event parameter (in hexadecimal).

Type String

Warehouse name
PARAMETER_3_IN_HEXADECIMAL or P3RAW

Wait Class ID attribute

Description
The class identifier of the wait event.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WAIT_CLASS_ID or WAITCLAID

Wait Class Number attribute

Description
The class number of the wait event.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WAIT_CLASS_NUMBER or WAITCLANUM

Wait Class attribute

Description
The class name of the wait event.

Type String

Warehouse name
WAIT_CLASS

Wait Time attribute

Description
If the value is 0, the duration of the last wait in hundredths of a second; if the value is -1, the duration of the last wait was less than a hundredth of a second; if the value is -2, the TIMED_STATTISTICS parameter was set to false.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WAIT_TIME

Seconds In Wait attribute

Description
If the session is currently waiting, the value is the amount of time for the current wait; if the session is not in a wait, the value is the amount of time since the start of the last wait.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SECONDS_IN_WAIT or SECSINWAIT

State attribute

Description
The state of the wait.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Waiting (WAITING)
- WAITED UNKNOWN TIME (WAITED UNKNOWN TIME)
- WAITED SHORT TIME (WAITED SHORT TIME)

- WAITED KNOWN TIME (WAITED KNOWN TIME)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATE

Server Type attribute

Description
The type of the server.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Dedicated (DEDICATED)
- Shared (SHARED)
- Pseudo (PSEUDO)
- Pooled (POOLED)
- None (NONE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SERVER_TYPE or SERVER

Schema User ID attribute

Description
The user identifier for the schema.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SCHEMA_USER_ID or SCHEMANUM

Schema User Name attribute

Description
The user name for the schema.

Type String

Warehouse name
SCHEMA_USER_NAME or SCHEMANAME

OS User attribute

Description
The user name for the operating system client.

Type String

Warehouse name
OS_USER or OSUSER

process ID attribute

Description
The process ID for the operating system client.

Type String

Warehouse name
PROCESS_ID or PROCESS

Machine Name attribute

Description
The computer name for the operating system.

Type String

Warehouse name
MACHINE_NAME or MACHINE

Terminal Name attribute

Description
The terminal name for the operating system.

Type String

Warehouse name
TERMINAL_NAME or TERMINAL

Program Name attribute

Description
The program name for the operating system.

Type String

Warehouse name
PROGRAM_NAME or PROGRAM

Session Type attribute

Description
The type of the session.

Type String

Warehouse name
SESSION_TYPE or TYPE

Logon Time attribute

Description
The time of logon.

Type Timestamp

Warehouse name
LOGON_TIME

Last Call ET attribute

Description
If the session STATUS is currently ACTIVE, the value represents the elapsed time (in seconds); if the session STATUS is currently INACTIVE, the value represents the elapsed time (in seconds).

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LAST_CALL_ET or LASTCALLET

PDML Enabled attribute

Description
This column was replaced by the PDML_STATUS column.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PDML_ENABLED or PDMLENBLD

Failover Type attribute

Description
Indicates the Transparent Application Failover (TAF) type for the session.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- None (NONE)
- Session (SESSION)
- Select (SELECT)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FAILOVER_TYPE or FAILOVTYPE

Failover Method attribute

Description
Indicates the Transparent Application Failover (TAF) method for the session.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- None (NONE)
- Basic (BASIC)
- Preconnect (PRECONNECT)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FAILOVER_METHOD or FAILOVMETH

Failed Over attribute

Description
Indicates whether the session is running in failover mode and failover has occurred.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FAILED_OVER or FAILEDOVER

Resource Consumer Group attribute

Description
The name of the current resource consumer group of the session.

Type String

Warehouse name
RESOURCE_CONSUMER_GROUP or RESCONSGRP

PDML Status attribute

Description
If the value is ENABLED, the session is in a PARALLEL DML enabled mode; if the value is DISABLED, the PARALLEL DML enabled mode is not supported for the session; if the value is FORCED, the session was altered to force the PARALLEL DML enabled mode.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ENABLED (ENABLED)
- DISABLED (DISABLED)
- FORCED (FORCED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PDML_STATUS or PDMLSTATUS

PDDL Status attribute

Description
If the value is ENABLED, the session is in a PARALLEL DDL enabled mode; if the value is DISABLED, the PARALLEL DDL enabled mode is not supported for the session; if the value is FORCED, the session was altered to force the PARALLEL DDL enabled mode.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ENABLED (ENABLED)
- DISABLED (DISABLED)
- FORCED (FORCED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PDDL_STATUS or PDDLSTATUS

PQ Status attribute

Description
If the value is ENABLED, the session is in a PARALLEL QUERY enabled mode; if the value is DISABLED, the PARALLEL QUERY enabled mode is not supported for the session; if the value is FORCED, the session was altered to force the PARALLEL QUERY enabled mode.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ENABLED (ENABLED)
- DISABLED (DISABLED)
- FORCED (FORCED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PQ_STATUS

Current Queue Duration attribute

Description
The current amount of time the session was queued; if the session is not currently queued, the value is 0.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CURRENT_QUEUE_DURATION or CURQDUR

Client ID attribute

Description
The client identifier of the session.

Type String

Warehouse name
CLIENT_ID or CLIENTID

Service Name attribute

Description
The service name of the session.

Type String

Warehouse name
SERVICE_NAME or SERVNAME

SQL Trace attribute

Description
Indicates whether SQL tracing is enabled (ENABLED) or disabled (DISABLED). This attribute is available in Oracle 10.2 or later versions.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ENABLED (ENABLED)
- DISABLED (DISABLED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SQL_TRACE

SQL Trace Waits attribute

Description
Indicates whether wait tracing is enabled. This attribute is available in Oracle 10.2 or later versions.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- TRUE (TRUE)
- FALSE (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SQL_TRACE_WAITS or SQLTRAWAIT

SQL Trace Bindings attribute

Description
Indicates whether bind tracing is enabled. This attribute is available in Oracle 10.2 or later versions.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- TRUE (TRUE)
- FALSE (FALSE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SQL_TRACE_BINDINGS or SQLTRACEBN

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Session Summary attribute group

The RDB Session Summary attribute group provides aggregate session statistics.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Session Summary attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are

displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INST_ID

Total Session Count attribute

Description
The total count of all sessions.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_SESSION_COUNT or TOTAL_CNT

Shared Session Count attribute

Description
The count of sessions with a server type of SHARED.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHARED_SESSION_COUNT or SHARED_CNT

Dedicated Session Count attribute

Description
The count of sessions with a server type of DEDICATED.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DEDICATED_SESSION_COUNT or DEDI_CNT

None Session Count attribute

Description
The count of sessions with a server type of NONE.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NONE_SESSION_COUNT or NONE_CNT

Pseudo Session Count attribute

Description
The count of sessions with a server type of PSEUDO.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PSEUDO_SESSION_COUNT or PSEUDO_CNT

Active Session Count attribute

Description
The count of sessions with a status of ACTIVE.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ACTIVE_SESSION_COUNT or ACTIVE_CNT

Inactive Session Count attribute

Description
The count of sessions with a status of INACTIVE.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INACTIVE_SESSION_COUNT or INAC_CNT

Killed Session Count attribute

Description
The count of sessions with a status of KILLED.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
KILLED_SESSION_COUNT or KILLED_CNT

Cached Session Count attribute

Description
The count of sessions with a status of CACHED.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CACHED_SESSION_COUNT or CACHED_CNT

Sniped Session Count attribute

Description
The count of sessions with a status of SNIPED.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SNIPED_SESSION_COUNT or SNIPED_CNT

Wait Session Count attribute

Description
The count of sessions that are waiting for locks.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WAIT_SESSION_COUNT or WAIT_CNT

User Session Count attribute

Description
The count of sessions with a type of USER.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USER_SESSION_COUNT or USER_CNT

Background Session Count attribute

Description
The count of sessions with a type of BACKGROUND.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BACKGROUND_SESSION_COUNT or BACKGN_CNT

Dedicated User Session Count attribute

Description
The count of sessions with a type of USER and a server type of DEDICATED.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DEDICATED_USER_SESSION_COUNT or SUMS

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Session Wait attribute group

The RDB Session Wait attribute group provides statistics for the current or last wait for each session.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Session Wait attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSID

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or INSTNAME

Event attribute: This attribute is a key attribute.

Description
The resource or event for which the session is waiting.

Type String

Warehouse name
EVENT

File Number attribute: This attribute is a key attribute.

Description
The number of the file for which the session is waiting.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FILE_NUMBER or FILENUM

Block Number attribute: This attribute is a key attribute.

Description
The number of the block for which the session is waiting.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCK_NUMBER or BLOCKNUM

Wait Time attribute

Description
If the value is 0, the duration of the last wait in hundredths of a second; if the value is -1, duration of the last wait was less than a hundredth of a second; if the value is -2, the TIMED_STATTISTICS parameter was set to false.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
WAIT_TIME or WAITTIME

Display Name attribute

Description
The attribute combines the instance name and event name.

Type String

Warehouse name
DISPLAY_NAME or DISPNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB SGA Detail attribute group

The RDB SGA Detail attribute group provides detailed information about the SGA.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB SGA Detail attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Pool Resides attribute

Description
The pool in which the memory is located.

Type String

Warehouse name
POOL_RESIDES or POOLRESIDE

Component Name attribute: This attribute is a key attribute.

Description
The name of the SGA component.

Type String

Warehouse name
COMPONENT_NAME or COMPNAME

Memory Size (Bytes) attribute

Description
The size (in bytes) of the memory.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MEMORY_SIZE_BYTE or MEMSIZE

Memory Size (KB) attribute

Description
The size (in KB) of the memory.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MEMORY_SIZE_KB or MEMSIKB

Memory Size (MB) attribute

Description
The size (in MB) of the memory.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MEMORY_SIZE_MB or MEMSIMB

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB SGA Overview attribute group

The RDB SGA Overview attribute group provides aggregate SGA statistics.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB SGA Overview attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Database Buffers (Bytes) attribute

Description
The size (in bytes) of the database buffers.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DATABASE_BUFFERS_BYTES or DBUFFER

Database Buffers (KB) attribute

Description
The size (in KB) of the database buffers.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DATABASE_BUFFERS_KB or DBBRKB

Database Buffers (MB) attribute

Description
The size (in MB) of the database buffers.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DATABASE_BUFFERS_MB or DBBRMB

Fixed Size (Bytes) attribute

Description
The fixed size (in bytes).

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FIXED_SIZE_BYTES or FIXSIZE

Fixed Size (KB) attribute

Description
The fixed size (in KB).

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FIXED_SIZE_KB or FIXSEKB

Fixed Size (MB) attribute

Description
The fixed size (in MB).

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FIXED_SIZE_MB or FIXSEMB

Redo Buffers (Bytes) attribute

Description
The size (in bytes) of the redo buffers.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REDO_BUFFERS_BYTES or REDOBUF

Redo Buffers (KB) attribute

Description
The size (in KB) of the redo buffers.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REDO_BUFFERS_KB or REDBFKB

Redo Buffers (MB) attribute

Description
The size (in MB) of the redo buffers.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REDO_BUFFERS_MB or REDBFMB

Variable Size (Bytes) attribute

Description
The variable size (in bytes).

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
VARIABLE_SIZE_BYTES or VARSIZE

Variable Size (KB) attribute

Description
The variable size (in KB).

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
VARIABLE_SIZE_KB or VARSEKB

Variable Size (MB) attribute

Description
The variable size (in MB).

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
VARIABLE_SIZE_MB or VARSEMB

Total SGA (Bytes) attribute

Description
The total size (in bytes) of the SGA.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_SGA_BYTES or TOTSGA

Total SGA (KB) attribute

Description
The total size (in KB) of the SGA.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_SGA_KB or TTSGAKB

Total SGA (MB) attribute

Description
The total size (in MB) of the SGA.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TOTAL_SGA_MB or TTSGAMB

Free Total SGA (Bytes) attribute

Description
The total size (in bytes) of free SGA.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_TOTAL_SGA_BYTES or TOTFSGA

Free Total SGA (KB) attribute

Description
The total size (in KB) of free SGA.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_TOTAL_SGA_KB or TTFSGAK

Free Total SGA (MB) attribute

Description
The total size (in MB) of free SGA.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_TOTAL_SGA_MB or TTFSGAM

% Free SGA attribute

Description
The percentage of total free SGA.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_SGA_PERCENT or TOTFPT

% Used SGA attribute

Description
The percentage of total used SGA.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USED_SGA_PERCENT or TOTUPT

Shared Pool (Bytes) attribute

Description
The sum of memory (in bytes) allocated from the shared pool by each SGA component, calculated from V$SGASTAT.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHARED_POOL_BYTES or TOTSPOOL

Shared Pool (KB) attribute

Description
The sum of memory (in KB) allocated from the shared pool by each SGA component, calculated from V$SGASTAT.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHARED_POOL_KB or TOTSPLKB

Shared Pool (MB) attribute

Description
The sum of memory (in MB) allocated from the shared pool by each SGA component, calculated from V$SGASTAT.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHARED_POOL_MB or TOTSPLMB

Free Shared Pool (Bytes) attribute

Description
The total size (in bytes) of the free shared pool.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_SHARED_POOL_BYTES or TOTFSP

Free Shared Pool (KB) attribute

Description
The total size (in KB) of the free shared pool.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_SHARED_POOL_KB or TOTFSKB

Free Shared Pool (MB) attribute

Description
The total size (in MB) of the free shared pool.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_SHARED_POOL_MB or TOTFSMB

% Free Shared Pool attribute

Description
The percentage of the size of the free shared pool.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_SHARED_POOL_PERCENT or TOTFSPPT

% Used Shared Pool attribute

Description
The percentage of the size of the used shared pool.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USED_SHARED_POOL_PERCENT or TOTUSPPT

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB SGA Size attribute group

The RDB SGA Size attribute group provides size statistics for the SGA.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB SGA Size attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Buffer Cache Size (Bytes) attribute

Description
The size (in bytes) of the buffer cache.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BUFFER_CACHE_BYTES or BUCSIZE

Buffer Cache Size (KB) attribute

Description
The size (in KB) of the buffer cache.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BUFFER_CACHE_KB or BUCSIKB

Buffer Cache Size (MB) attribute

Description
The size (in MB) of the buffer cache.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BUFFER_CACHE_MB or BUCSIMB

Buffer Cache Percentage attribute

Description
The percentage of the buffer cache size in maximum SGA size.

Type Real number (64-bit numeric property) with 2 decimal places of precision with

enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BUFFER_CACHE_PERCENTAGE or BUCSPET

Fixed SGA Size (Bytes) attribute

Description
The size (in bytes) of the fixed SGA.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FIXED_SGA_BYTES or FIXSIZE

Fixed SGA Size (KB) attribute

Description
The size (in KB) of the fixed SGA.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FIXED_SGA_KB or FIXSIKB

Fixed SGA Size (MB) attribute

Description
The size (in MB) of the fixed SGA.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FIXED_SGA_MB or FIXSIMB

Free SGA Memory Available (Bytes) attribute

Description
The size (in bytes) of free SGA memory that is available.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_SGA_AVAILABLE_BYTES or FREESGA

Free SGA Memory Available (KB) attribute

Description
The size (in KB) of free SGA memory that is available.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_SGA_AVAILABLE_KB or FREESKB

Free SGA Memory Available (MB) attribute

Description
The size (in MB) of free SGA memory that is available.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_SGA_AVAILABLE_MB or FREESMB

Granule Size (Bytes) attribute

Description
The size (in bytes) of a granule.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GRANULE_SIZE_BYTES or GRASIZE

Granule Size (KB) attribute

Description
The size (in KB) of a granule.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GRANULE_SIZE_KB or GRASIKB

Granule Size (MB) attribute

Description
The size (in MB) of a granule.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GRANULE_SIZE_MB or GRASIMB

Java Pool Size (Bytes) attribute

Description
The size (in bytes) of the Java pool.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
JAVA_POOL_SIZE_BYTES or JAPSIZE

Java Pool Size (KB) attribute

Description
The size (in KB) of the Java pool.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
JAVA_POOL_SIZE_KB or JAPSIKB

Java Pool Size (MB) attribute

Description
The size (in MB) of the Java pool.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
JAVA_POOL_SIZE_MB or JAPSIMB

Java Pool Percentage attribute

Description
The percentage of the Java pool size.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
JAVA_POOL_SIZE_PERCENTAGE or JAPSPET

Large Pool Size (Bytes) attribute

Description
The size (in bytes) of the large pool.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LARGE_POOL_SIZE_BYTES or LAPSIZE

Large Pool Size (KB) attribute

Description
The size (in KB) of the large pool.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LARGE_POOL_SIZE_KB or LAPSIKB

Large Pool Size (MB) attribute

Description
The size (in MB) of the large pool.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LARGE_POOL_SIZE_MB or LAPSIMB

Large Pool Percentage attribute

Description
The percentage of the large pool size.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LARGE_POOL_SIZE_PERCENTAGE or LAPSPET

Maximum SGA Size (Bytes) attribute

Description
The maximum size (in bytes) of the SGA.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_SGA_SIZE_BYTES or MAXSIZE

Maximum SGA Size (KB) attribute

Description
The maximum size (in KB) of the SGA.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_SGA_SIZE_KB or MAXSIKB

Maximum SGA Size (MB) attribute

Description
The maximum size (in MB) of the SGA.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_SGA_SIZE_MB or MAXSIMB

Redo Buffers (Bytes) attribute

Description
The size (in bytes) of the redo buffers.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REDO_BUFFERS_BYTES or REDOBUF

Redo Buffers (KB) attribute

Description
The size (in KB) of the redo buffers.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REDO_BUFFERS_KB or REDOBKB

Redo Buffers (MB) attribute

Description
The size (in MB) of the redo buffers.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REDO_BUFFERS_MB or REDOBMB

Shared IO Pool Size (Bytes) attribute

Description
The size (in bytes) of the shared I/O pool.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHARED_IO_POOL_SIZE_BYTES or SIOSIZE

Shared IO Pool Size (KB) attribute

Description
The size (in KB) of the shared I/O pool.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHARED_IO_POOL_SIZE_KB or SIOSIKB

Shared IO Pool Size (MB) attribute

Description
The size (in MB) of the shared I/O pool.

Type Real number (64-bit numeric property) with 2 decimal places of precision with

enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHARED_IO_POOL_SIZE_MB or SIOSIMB

Shared Pool Size (Bytes) attribute

Description
The statistic size (in bytes) of the shared pool, from V$SGAINFO.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHARED_POOL_SIZE_BYTES or SHASIZE

Shared Pool Size (KB) attribute

Description
The statistic size (in KB) of the shared pool, from V$SGAINFO.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHARED_POOL_SIZE_KB or SHASIKB

Shared Pool Size (MB) attribute

Description
The statistic size (in MB) of the shared pool, from V$SGAINFO.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHARED_POOL_SIZE_MB or SHASIMB

Shared Pool Percentage attribute

Description
The percentage of the shared pool size.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHARED_POOL_SIZE_PERCENTAGE or SHASPET

Startup Overhead (Bytes) attribute

Description
The startup overhead (in bytes) of the shared pool.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STARTUP_OVERHEAD_BYTES or STROVHD

Startup Overhead (KB) attribute

Description
The startup overhead (in KB) of the shared pool.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STARTUP_OVERHEAD_KB or STROVKB

Startup Overhead (MB) attribute

Description
The startup overhead (in MB) of the shared pool.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STARTUP_OVERHEAD_MB or STROVMB

Streams Pool Size (Bytes) attribute

Description
The size (in bytes) of the streams pool.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STREAMS_POOL_SIZE_BYTES or STPSIZE

Streams Pool Size (KB) attribute

Description
The size (in KB) of the streams pool.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STREAMS_POOL_SIZE_KB or STPSIKB

Streams Pool Size (MB) attribute

Description
The size (in MB) of the streams pool.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STREAMS_POOL_SIZE_MB or STPSIMB

Other Percentage attribute

Description
The percentage of the size of other components.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OTHER_SIZE_PERCENTAGE or SOTHRPET

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB SQLTEXT attribute group

This attribute group shows the text of SQL statements.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB SQLTEXT attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

DBID attribute: This attribute is a key attribute.

Description
The database ID when showing historical SQL text, the instance ID when showing session SQL text.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DBID

Address attribute: This attribute is a key attribute.

Description
The SQL address.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (Not_Available)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ADDRESS

SQL ID attribute: This attribute is a key attribute.

Description
The SQL identifier for the parent cursor in the library cache.

Type String

Warehouse name
SQL_ID or SQLID

Piece attribute: This attribute is a key attribute.

Description
The number that is used to order the pieces of the SQL text.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PIECE

SQL Text attribute

Description
The full text for the SQL statement, but only the first 4000 bytes of the statement is displayed.

Type String

Warehouse name
SQL_TEXT or SQLTEXT

Command Type attribute

Description
The definition of the Oracle command type.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
COMMAND_TYPE or COMTYPE

RDB Sys Metric attribute group

The RDB Sys Metric attribute group provides information about the system metric values captured for the most current time interval.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Sys Metric attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Begin Time attribute: This attribute is a key attribute.

Description
The begin time of the interval.

Type Timestamp

Warehouse name
BEGIN_TIME

End Time attribute: This attribute is a key attribute.

Description
The end time of the interval.

Type Timestamp

Warehouse name
END_TIME

Int Size CSEC attribute

Description
The size (in hundredths of a second) of the interval.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INT_SIZE_CSEC or ISIZE_CSEC

Group ID attribute: This attribute is a key attribute.

Description
The identifier for the metric group.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GROUP_ID

Metric ID attribute: This attribute is a key attribute.

Description
The identifier for the metric.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
METRIC_ID

Metric Name attribute: This attribute is a key attribute.

Description
The name of the metric.

Type String

Warehouse name
METRIC_NAME or MET_NAME

Metric Value attribute

Description
The value of the metric.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
METRIC_VALUE or VALUE

Metric Unit attribute

Description
The description of the metric unit.

Type String

Warehouse name
METRIC_UNIT or MET_UNIT

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Sys Metric Growth Percent attribute group

The RDB Sys Metric Growth Percent attribute group provides information about the metric growth percentage in the interval period.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Sys Metric Growth Percent attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Start Time attribute: This attribute is a key attribute.

Description
The begin time of the interval.

Type Timestamp

Warehouse name
START_TIME or STARTTM

End Time attribute: This attribute is a key attribute.

Description
The end time of the interval.

Type Timestamp

Warehouse name
END_TIME or ENDTM

Current Value attribute

Description
The current value of the metric.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CURRENT_VALUE or CURVALUE

Average attribute

Description
The average value of the metric over the period.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE

Maximum Value Observed attribute

Description
The maximum value of the metric that is observed.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_VALUE_OBSERVED or MAXVAL

Minimum Value Observed attribute

Description
The minimum value of the metric that is observed.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MINIMUM_VALUE_OBSERVED or MINVAL

Metric Growth % attribute

Description
The percentage of metric value growth.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
METRIC_GROWTH_PERCENT or METGROWTH

Standard Deviation attribute

Description
The deviation value from standard.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STANDARD_DEVIATION or STAND_DEV

Group ID attribute: This attribute is a key attribute.

Description
The identifier of the metric group.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GROUP_ID

Metric Name attribute: This attribute is a key attribute.

Description
The name of the metric.

Type String

Warehouse name
METRIC_NAME or NAME

Metric ID attribute: This attribute is a key attribute.

Description
The identifier of the metric.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
METRIC_ID or METID

Metric Unit attribute

Description
The description of the metric unit.

Type String

Warehouse name
METRIC_UNIT or UNIT

Instance ID attribute: This attribute is a key attribute.

Description
The identifier of the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Name Instance ID attribute

Description
The metric name with the instance ID.

Type String

Warehouse name
NAME_INSTANCE_ID or NAMEID

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Sys Metric History attribute group

The RDB Sys Metric History attribute group provides information about all system metric values available in the database.

Historical group

This attribute group is not eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RDB Sys Metric History attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Instance ID attribute: This attribute is a key attribute.

Description
The identifier of the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Begin Time attribute: This attribute is a key attribute.

Description
The begin time of the interval.

Type Timestamp

End Time attribute: This attribute is a key attribute.

Description
The end time of the interval.

Type Timestamp

Int Size CSEC attribute

Description
The size (in hundredths of a second) of the interval.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Group ID attribute: This attribute is a key attribute.

Description
The identifier of the metric group.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Metric ID attribute: This attribute is a key attribute.

Description
The identifier of the metric.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Metric Name attribute

Description
The name of the metric.

Type String

Metric Value attribute

Description
The value of the metric.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Metric Unit attribute

Description
The description of the metric unit.

Type String

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

RDB Sys Statistics attribute group

The RDB Sys Statistics attribute group provides system statistics including statistic number, name, class, value, and identifier.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Sys Statistics attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier of the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Statistic Number attribute: This attribute is a key attribute.

Description
The number for the statistic.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATISTIC_NUMBER or STATISTIC

Statistic Name attribute: This attribute is a key attribute.

Description
The name of the statistic.

Type String

Warehouse name
STATISTIC_NAME or NAME

Statistic Class attribute: This attribute is a key attribute.

Description
A number that represents one or more statistic classes.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)
- 1: User (1)
- 2: Redo (2)
- 4: Enqueue (4)
- 8: Cache (8)
- 16: OS (16)
- 32: Real Application Clusters (32)
- 64: SQL (64)
- 128: Debug (128)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATISTIC_CLASS or CLASS

Statistic Value attribute

Description
The value of the statistic.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATISTIC_VALUE or VALUE

Statistic ID attribute: This attribute is a key attribute.

Description
The identifier for the statistic.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)
- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATISTIC_ID or STAT_ID

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

Delta Value attribute

Description
The changed value of the statistic for interval.

Type DEFAULT(2) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DELTA_VALUE or DELTAVALUE

RDB Table Num Rows attribute group

The RDB Table Num Rows attribute group provides the number of rows (top 10) in relational tables that are not in the SYSAUX, SYSTEM, or NULL table spaces. The value must be greater than 0.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Table Num Rows attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Owner attribute: This attribute is a key attribute.

Description
The owner of the table.

Type String

Warehouse name
OWNER

Table Name attribute: This attribute is a key attribute.

Description
The name of the table.

Type String

Warehouse name
TABLE_NAME or TBNAME

Tablespace Name attribute

Description
The name of the table space containing the table. The value is NULL for partitioned, temporary, and index-organized tables.

Type String

Warehouse name
TABLESPACE_NAME or TSNAME

Num Rows attribute

Description
The number of rows in the table.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUM_ROWS or NUMROWS

Show Name attribute

Description
The combination of the Owner attribute and the Table Name attribute.

Type String

Warehouse name
SHOW_NAME or SHOWNAME

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Table Size attribute group

The RDB Table Size attribute group provides the sizes of the top 10 largest relational tables in the database. These tables are not in the SYSAUX, SYSTEM, or NULL table spaces. The value must be greater than 0.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Table Size attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Owner attribute: This attribute is a key attribute.

Description
The owner of the table.

Type String

Warehouse name
OWNER

Table Name attribute: This attribute is a key attribute.

Description
The name of the table.

Type String

Warehouse name
TABLE_NAME or TBNAME

Tablespace Name attribute

Description
The name of the table space containing the table. The value is NULL for partitioned, temporary, and index-organized tables.

Type String

Warehouse name
TABLESPACE_NAME or TSNAME

Table Size (Bytes) attribute

Description
The size of the table (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TABLE_SIZE_BYTES or SIZEBYTES

Table Size (KB) attribute

Description
The size of the table (in KB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TABLE_SIZE_KB or SIZEKB

Table Size (MB) attribute

Description
The size of the table (in MB).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TABLE_SIZE_MB or SIZEMB

Show Name attribute

Description
The combination of the Owner attribute and the Table Name attribute.

Type String

Warehouse name
SHOW_NAME or SHOWNAME

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Tables attribute group

The RDB Tables attribute group provides information about all relational tables in the database.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Tables attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Owner attribute: This attribute is a key attribute.

Description
The owner of the table.

Type String

Warehouse name
OWNER

Table Name attribute: This attribute is a key attribute.

Description
The name of the table.

Type String

Warehouse name
TABLE_NAME or TBNAME

Tablespace Name attribute

Description
The name of the table space containing the table. The value is NULL for partitioned, temporary, and index-organized tables.

Type String

Warehouse name
TABLESPACE_NAME or TSNAME

Cluster Name attribute

Description
The name of the cluster to which the table belongs, if applicable.

Type String

Warehouse name
CLUSTER_NAME or CLUNAME

IOT Name attribute

Description
The name of the table if the overflow or mapping table entry belongs to an index-organized table. If the value of the IOT_TYPE column is not NULL, this column contains the base table name.

Type String

Warehouse name
IOT_NAME or IOTNAME

Status attribute

Description
If a previous DROP TABLE operation failed, this attribute indicates whether the table is unusable or valid.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Unusable (UNUSABLE)
- Valid (VALID)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STATUS

Free Space Percentage (%) attribute

Description
The minimum percentage of free space in a block; the value is NULL for partitioned tables.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PCT_FREE or FREEPCT

Used Space Percentage (%) attribute

Description
The minimum percentage of used space in a block; the value is NULL for partitioned tables.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PCT_USED or USEDPCT

Initial Transactions attribute

Description
The initial number of transactions; the value is NULL for partitioned tables.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INITIAL_TRANSACTIONS or INITRANS

Max Transactions attribute

Description
The maximum number of transactions; the value is NULL for partitioned tables.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_TRANSACTIONS or MAXTRANS

Initial Extent Size (Bytes) attribute

Description
The size of the initial extent (in bytes); the value is NULL for partitioned tables.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INITIAL_EXTENT_SIZE_BYTES or INIEXTENT

Initial Extent Size (KB) attribute

Description
The size of the initial extent (in KB); the value is NULL for partitioned tables.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INITIAL_EXTENT_SIZE_KB or INIEXTKB

Initial Extent Size (MB) attribute

Description
The size of the initial extent (in MB); the value is NULL for partitioned tables.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INITIAL_EXTENT_SIZE_MB or INIEXTMB

Next Extent Size (Bytes) attribute

Description
The size of the secondary extent (in bytes); the value is NULL for partitioned tables.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NEXT_EXTENT_SIZE_BYTES or NEXTEXTENT

Next Extent Size (KB) attribute

Description
The size of the secondary extent (in KB); the value is NULL for partitioned tables.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NEXT_EXTENT_SIZE_KB or NEXTEXTKB

Next Extent Size (MB) attribute

Description
The size of the secondary extent (in MB); the value is NULL for partitioned tables.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NEXT_EXTENT_SIZE_MB or NEXTEXTMB

Min Extents attribute

Description
The minimum number of extents that are allowed in the segment; the value is NULL for partitioned tables.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MIN_EXTENTS or MINEXTENT

Max Extents attribute

Description
The maximum number of extents that are allowed in the segment; the value is NULL for partitioned tables.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_EXTENTS or MAXEXTENT

Increase Percentage (%) attribute

Description
The percentage of increase in extent size; the value is NULL for partitioned tables.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INCREASE_PERCENTAGE or INCRESPCT

Freelists attribute

Description
The number of process free lists that are allocated to the segment; the value is NULL for partitioned tables.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREELISTS

Freelists Groups attribute

Description
The number of free list groups that are allocated to the segment; the value is NULL for partitioned tables.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREELISTS_GROUPS or FRLIGRP

Logging attribute

Description
Indicates whether changes to the table are logged; the value is NULL for partitioned tables.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOGGING

Backed Up attribute

Description
Indicates whether the table was backed up since the last modification.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (Y)
- No (N)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BACKED_UP or BACKEDUP

Num Rows attribute

Description
The number of rows in the table.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUM_ROWS or NUMROWS

Blocks attribute

Description
The number of used data blocks in the table.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCKS

Empty Blocks attribute

Description
The number of empty (never used) data blocks in the table. This column is populated only if you collect statistics on the table using the ANALYZE statement.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
EMPTY_BLOCKS or EMPBLOCKS

Average Free Space attribute

Description
The average amount (in bytes) of free space in a data block that is allocated to the table.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_FREE_SPACE or AVGSPACE

Chain CNT attribute

Description
The number of rows in the table that are chained from one data block to another, or the rows that migrated to a new block, requiring a link to preserve the old row ID.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CHAIN_CNT or CHAINCNT

Average Row Length (Bytes) attribute

Description
The average length of a row in the table (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_ROW_LENGTH or AVTROWLEN

Average Freespace attribute

Description
The average amount of free space in all blocks on a free list.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_FREESPACE or AVGSPCFLBK

Number Blocks attribute

Description
The number of blocks on the free list.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NUMBER_BLOCKS or NUMFLBK

Degree attribute

Description
The number of threads per instance for scanning the table.

Type String

Warehouse name
DEGREE

Instances attribute

Description
The number of instances across which the table is to be scanned.

Type String

Warehouse name
INSTANCES

Cache attribute

Description
Indicates whether the table is to be cached in the buffer cache.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (Y)

- No (N)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CACHE

Table Lock attribute

Description
Indicates whether table locking is enabled or disabled.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Enabled (ENABLED)
- Disabled (DISABLED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TABLE_LOCK or TBLOCK

Sample Size attribute

Description
The sample size that is used to analyze this table.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SAMPLE_SIZE or SAPLSIZE

Last Analyzed attribute

Description
The date on which this table was most recently analyzed.

Type Timestamp

Warehouse name
LAST_ANALYZED or LTANALYZED

Partitioned attribute

Description
Indicates whether the table is partitioned.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PARTITIONED or PATTID

IOT Type attribute

Description
If the table is an index-organized table, this value is IOT, IOT_OVERFLOW, or IOT_MAPPING. If the table is not an index-organized table, this value is NULL.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- IOT (IOT)
- IOT Overflow (IOT_OVERFLOW)
- IOT Mapping (IOT_MAPPING)
- Null (NULL)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IOT_TYPE or IOTTYPE

Temporary attribute

Description
Indicates whether the table is temporary.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (Y)
- No (N)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TEMPORARY

Secondary attribute

Description
Indicates whether the table is a secondary object created by the ODCIIndexCreate method of the Oracle Data Cartridge.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (Y)
- No (N)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SECONDARY

Nested attribute

Description
Indicates whether the table is a nested table.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (Y)
- No (N)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NESTED

Buffer Pool attribute

Description
The default buffer pool for the table; the value is NULL for partitioned tables.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Default (DEFAULT)
- Keep (KEEP)
- Recycle (RECYCLE)
- Null (NULL)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BUFFER_POOL or BUFPOOL

Row Movement attribute

Description
Indicates whether partitioned row movement is enabled or disabled.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Enabled (ENABLED)
- Disabled (DISABLED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ROW_MOVEMENT or ROWMOV

Global Stats attribute

Description
For partitioned tables, indicates whether statistics are collected for the table as a whole or are estimated from statistics for underlying partitions and subpartitions.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)

- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GLOBAL_STATS or GLBSTATS

User Stats attribute

Description
Indicates whether statistics are entered directly by users.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USER_STATS or USERSTATS

Duration attribute

Description
Indicates the duration of a temporary table.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- SYS$SESSION (SYS$SESSION)
- SYS$TRANSACTION (SYS$TRANSACTION)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DURATION

Skip Corrupt attribute

Description
Indicates whether the Oracle Database ignores blocks that are marked as corrupted during table and index scans or raises an error. To enable this feature, run the DBMS_REPAIR.SKIP_CORRUPT_BLOCKS procedure.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Enabled (ENABLED)
- Disabled (DISABLED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SKIP_CORRUPT or SKIPCORRU

Monitoring attribute

Description
Indicates whether the table has the MONITORING attribute set.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MONITORING

Cluster owner attribute

Description
The owner of the cluster to which the table belongs, if applicable.

Type String

Warehouse name
CLUSTER_OWNER or CLUOWNER

Dependencies attribute

Description
Indicates whether row-level dependency tracking is enabled or disabled.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Enabled (ENABLED)
- Disabled (DISABLED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DEPENDENCIES or DEPDENC

Compression attribute

Description
Indicates whether table compression is enabled; the value is NULL for partitioned tables.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Enabled (ENABLED)
- Disabled (DISABLED)
- Null (NULL)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
COMPRESSION or COMPRES

Compress For attribute

Description
The operation for which the default compression is enabled.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- DIRECT LOAD ONLY (DIRECT LOAD ONLY)
- FOR ALL OPERATIONS (FOR ALL OPERATIONS)
- Null (NULL)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
COMPRESS_FOR or COMPRESFOR

Dropped attribute

Description
Indicates whether the table is dropped and is in the recycle bin; the value is NULL for partitioned tables.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)
- Null (NULL)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DROPPED

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Tablespace Overview attribute group

The RDB Tablespace Overview attribute group provides statistics for all table spaces in the database.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RDB Tablespace Overview attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Tablespace Name attribute: This attribute is a key attribute.

Description
The name of the table space.

Type String

Warehouse name
TABLESPACE_NAME or TSNAME

Block Size (Bytes) attribute

Description
The size (in bytes) of the table space block.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCK_SIZE_BYTES or BLKSIZE

Initial Extent (Bytes) attribute

Description
The default initial size (in bytes) of the extent.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INITIAL_EXTENT_BYTES or INITEXT

Initial Extent (KB) attribute

Description
The default initial size (in KB) of the extent.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INITIAL_EXTENT_KB or KINITEXT

Initial Extent (MB) attribute

Description
The default initial size (in MB) of the extent.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INITIAL_EXTENT_MB or MINITEXT

Increment Extent (Bytes) attribute

Description
The default incremental size (in bytes) of the extent.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INCREMENT_EXTENT_BYTES or NEXTEXT

Increment Extent (KB) attribute

Description
The default incremental size (in KB) of the extent.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INCREMENT_EXTENT_KB or KNEXTEXT

Increment Extent (MB) attribute

Description
The default incremental size (in MB) of the extent.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INCREMENT_EXTENT_MB or MNEXTEXT

Minimum Extents (Bytes) attribute

Description
The default minimum size (in bytes) of the extents.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MINIMUM_EXTENTS_BYTES or MINEXT

Maximum Extents Number attribute

Description
The default maximum number of extents.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_EXTENTS_NUMBER or MAXEXT

Max Segment Size (Bytes) attribute

Description
The default maximum size (in bytes) of the segments. This attribute is available in Oracle 11.1 or later versions.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_SEGMENT_SIZE_BYTES or MAXSIZE

Max Segment Size (KB) attribute

Description
The default maximum size (in KB) of the segments. This attribute is available in Oracle 11.1 or later versions.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_SEGMENT_SIZE_KB or KMAXSIZE

Max Segment Size (MB) attribute

Description
The default maximum size (in MB) of the segments. This attribute is available in Oracle 11.1 or later versions.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_SEGMENT_SIZE_MB or MMAXSIZE

Percent Increase attribute

Description
The default percent increase of the extent size.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PERCENT_INCREASE or PCIINCE

Minimum Extent attribute

Description
The minimum size of the extent for this table space.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MINIMUN_EXTENT or MINEXTL

Tablespace Status attribute

Description
The status of the table space.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ONLINE (ONLINE)
- OFFLINE (OFFLINE)

- READ ONLY (READ ONLY)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TABLESPACE_STATUS or STATUS

Tablespace Contents attribute

Description
The contents of the table space.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- UNDO (UNDO)
- PERMANENT (PERMANENT)
- TEMPORARY (TEMPORARY)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TABLESPACE_CONTENTS or CONTENTS

Default Logging attribute

Description
The default logging attribute.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- LOGGING (LOGGING)
- NOLOGGING (NOLOGGING)
- TEMPORARY (TEMPORARY)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DEFAULT_LOGGING or LOGGING

Force Logging attribute

Description
Indicates whether the table space is in the force logging mode.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FORCE_LOGGING or FLOGGING

Extent Management attribute

Description
Indicates whether the extents in the table space are dictionary managed (DICTIONARY) or locally managed (LOCAL).

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- DICTIONARY (DICTIONARY)
- LOCAL (LOCAL)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
EXTENT_MANAGEMENT or EXTMGT

Allocation Type attribute

Description
The type of the extent allocation that is in effect for the table space.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- SYSTEM (SYSTEM)
- UNIFORM (UNIFORM)
- USER (USER)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ALLOCATION_TYPE or ALLOTYPE

Plugged In attribute

Description
Indicates whether the table space is plugged in.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PLUGGED_IN or PLUGIN

Segment Space Management attribute

Description
Indicates whether the free and used segment space in the table space is managed using free lists (MANUAL) or bitmaps (AUTO).

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- MANUAL (MANUAL)
- AUTO (AUTO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SEGMENT_SPACE_MANAGEMENT or SEGSPMGT

Default Table Compression attribute

Description
Indicates whether default table compression is enabled (ENABLED) or not enabled (DISABLED).

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- ENABLED (ENABLED)
- DISABLED (DISABLED)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DEFAULT_TABLE_COMPRESSION or DEFTCOM

Undo Tablespace Retention attribute

Description
The retention in the undo table space. This attribute is applied only for the undo table space.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- GUARANTEE (GUARANTEE)
- NOGUARANTEE (NOGUARANTEE)
- NOT APPLY (NOT APPLY)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
UNDO_TABLESPACE_RETENTION or RETENT

Big File attribute

Description
Indicates whether the table space is a bigfile table space (YES) or a smallfile table space (NO).

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BIG_FILE or BIGFILE

Predicate Evaluation attribute

Description
Indicates whether predicates are evaluated by host (HOST) or by storage (STORAGE). This attribute is available in Oracle 11.1 or later versions.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- HOST (HOST)
- STORAGE (STORAGE)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PREDICATE_EVALUATION or PREDEVAL

Encrypted attribute

Description
Indicates whether the table space is encrypted. This attribute is available in Oracle 11.1 or later versions.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ENCRYPTED or ENCRYPT

Default Compression Operations attribute

Description
Indicates which operations the default compression is for. This attribute is available in Oracle 11.1 or later versions.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- DIRECT LOAD ONLY (DIRECT LOAD ONLY)
- FOR ALL OPERATIONS (FOR ALL OPERATIONS)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DEFAULT_COMPRESSION_OPERATIONS or COMPFOR

Included Backup attribute

Description
Indicates whether the table space is included in the full database backups.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INCLUDED_BACKUP or INCDBBK

Flashback On attribute

Description
Indicates whether the table space participates in FLASHBACK DATABASE operations.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Yes (YES)
- No (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FLASHBACK_ON or FLBKON

Tablespace Encryption attribute

Description
Indicates whether encryption is turned on or off at the table space level. This attribute is available in Oracle 11.1 or later versions.

Type String

Warehouse name
TABLESPACE_ENCRYPTION or ENCTBK

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB TablespaceNormal Usage attribute group

The RDB TablespaceNormal Usage attribute group provides information about all non-temporary table space usage in the database.

Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the RDB TablespaceNormal Usage attribute group:

Node attribute: This attribute is a key attribute.

Description

The managed system name of the agent.

Type String

Warehouse name

NODE

Timestamp attribute

Description

The local time at the agent when the data was collected.

Type String

Warehouse name

TIMESTAMP

Tablespace Name attribute: This attribute is a key attribute.

Description

The name of the table space to which the file belongs.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- UNKOWN (UNKOWN)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name

TABLESPACE_NAME or TNAME

Allocation Size (KB) attribute

Description

The total allocation size (in KB) of the table space.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ALLOCATION_SIZE_KB or KBYTES

Allocation Size (MB) attribute

Description
The total allocation size (in MB) of the table space.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ALLOCATION_SIZE_MB or MBYTES

Used Size (KB) attribute

Description
The total used size (in KB) of the table space.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USED_SIZE_KB or KBUSED

Used Size (MB) attribute

Description
The total used size (in MB) of the table space.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USED_SIZE_MB or MBUSED

Free Size (KB) To Allocated attribute

Description
The total free size (in KB) of the table space in the allocated size.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_SIZE_KB or KBFREE

Free Size (MB) To Allocated attribute

Description
The total free size (in MB) of the table space in the allocated size.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FREE_SIZE_MB or MBFREE

% Used To Allocated attribute

Description
The percentage of used table space size in the allocated size.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PERCENTAGE_USED or PCIUSED

% Free To Allocated attribute

Description
The percentage of free table space size in the allocated size.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PERCENTAGE_FREE_TO_ALLOCATED or PCIFREE

File Largest Size (KB) attribute

Description
The largest size (in KB) of the file.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FILE_LARGEST_SIZE_KB or KLARGEST

File Largest Size (MB) attribute

Description
The largest size (in MB) of the file.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FILE_LARGEST_SIZE_MB or MLARGEST

Maximum File Size (KB) attribute

Description
The maximum size (in KB) of the file.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_FILE_SIZE_KB or KMAXSIZE

Maximum File Size (MB) attribute

Description
The maximum size (in MB) of the file.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_FILE_SIZE_MB or MMAXSIZE

% Allocated attribute

Description
The percentage of allocated table space size in maximum size.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PERCENTAGE_ALLOCATED or PCIMAX

Tablespace Fragment attribute

Description
The number of table space fragments.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TABLESPACE_FRAGMENT or TSFGNUM

% Free To Maximum attribute

Description
The percentage of free table space size in the maximum size.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PERCENTAGE_FREE_TO_MAXIMUM or PCIFMAX

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB TablespaceTemp Usage attribute group

The RDB TablespaceTemp Usage attribute group provides information about the temporary table space usage in the database.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB TablespaceTemp Usage attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Tablespace Name attribute: This attribute is a key attribute.

Description
The name of the table space.

Type String

Warehouse name
TABLESPACE_NAME or TSNAME

Allocation Size (KB) attribute

Description
The allocation size (in KB) of the table space.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ALLOCATION_SIZE_KB or KBYTES

Allocation Size (MB) attribute

Description
The allocation size (in MB) of the table space.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ALLOCATION_SIZE_MB or MBYTES

Used Size (KB) attribute

Description
The total used size (in KB).

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USED_SIZE_KB or KBUSED

Used Size (MB) attribute

Description
The total used size (in MB).

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USED_SIZE_MB or MBUSED

% Used To Allocated attribute

Description
The percentage of total used size of the table space in the allocated size.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PERCENTAGE_USED or PCIUSED

% Free To Allocated attribute

Description
The percentage of total free size of the table space in the allocated size.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PERCENTAGE_FREE or PCIFREE

Maximum Size (KB) attribute

Description
The maximum size (in KB) of the file.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_SIZE_KB or KMAXSIZE

Maximum Size (MB) attribute

Description
The maximum size (in MB) of the file.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_SIZE_MB or MMAXSIZE

% Allocated attribute

Description
The percentage of allocated size in maximum size.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PERCENTAGE_ALLOCATED or PCIMAX

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB TempFile Overview attribute group

The RDB TempFile Overview attribute group provides information about the temporary files (tempfiles) in the database.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB TempFile Overview attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

File Name attribute: This attribute is a key attribute.

Description
The name of the database file.

Type String

Warehouse name
FILE_NAME or FNAME

File ID attribute: This attribute is a key attribute.

Description
The identifier number for the database file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FILE_ID or FID

Tablespace Name attribute: This attribute is a key attribute.

Description
The name of the table space that contains the file.

Type String

Warehouse name
TABLESPACE_NAME or TSNAME

File Size (Bytes) attribute

Description
The size (in bytes) of the file.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FILE_SIZE_BYTES or BYTES

File Size (KB) attribute

Description
The size (in KB) of the file.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FILE_SIZE_KB or KBYTES

File Size (MB) attribute

Description
The size (in MB) of the file.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FILE_SIZE_MB or MBYTES

Blocks Number attribute

Description
The size (in Oracle blocks) of the file.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCKS_NUMBER or BLOCKS

File Status attribute

Description
The status of the file; the valid values are AVAILABLE and INVALID, where INVALID means that the file number is not in use.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- AVAILABLE (AVAILABLE)
- INVALID (INVALID)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FILE_STATUS or STATUS

Relative File Number attribute

Description
The relative file number.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
RELATIVE_FILE_NUMBER or RELAFNO

Auto Extent attribute

Description
The auto-extensible indicator.

Type String with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- YES (YES)
- NO (NO)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AUTO_EXTENT or ATESE

Maximum File Size (Bytes) attribute

Description
The maximum size (in bytes) of the file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_FILE_SIZE_BYTES or MAXBTS

Maximum File Size (KB) attribute

Description
The maximum size (in KB) of the file.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_FILE_SIZE_KB or KMAXBTS

Maximum File Size (MB) attribute

Description
The maximum size (in MB) of the file.

Type Real number (64-bit numeric property) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_FILE_SIZE_MB or MMAXBTS

Maximum Block Number attribute

Description
The maximum size (in Oracle blocks) of the file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAXIMUM_BLOCK_NUMBER or MAXBLK

Block Increment Number attribute

Description
The number of table space blocks that are used as auto-extension increments.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BLOCK_INCREMENT_NUMBER or INCBY

User Data Size (Bytes) attribute

Description
The size (in bytes) of the file that is available for user data; the actual size of the file minus this value is the size that is used to store file-related metadata.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USER_DATA_SIZE_BYTES or USRBTS

User Data Size (KB) attribute

Description
The size (in KB) of the file that is available for user data. The actual size of the file minus this value is the size that is used to store file-related metadata.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USER_DATA_SIZE_KB or USRBTSK

User Data Size (MB) attribute

Description
The size (in MB) of the file that is available for user data. The actual size of the file minus this value is the size that is used to store file-related metadata.

Type Real number (64-bit counter) with 2 decimal places of precision with enumerated

values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USER_DATA_SIZE_MB or USRBTSM

% User Data attribute

Description
The percentage of the file that is available for user data.

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PERCENTAGE_USER_DATA or PCI

User Blocks Number attribute

Description
The number of blocks that can be used by user data.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
USER_BLOCKS_NUMBER or USRBLK

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Top SQL attribute group

This attribute group provides statistics for top SQL statements.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Top SQL attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

DBID attribute: This attribute is a key attribute.

Description
The database ID for the snapshot.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DBID

Instance ID attribute: This attribute is a key attribute.

Description
The instance number for the snapshot.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

SQL ID attribute: This attribute is a key attribute.

Description
The SQL identifier for the parent cursor in the library cache.

Type String

Warehouse name
SQL_ID or SQLID

Plan Hash Value attribute

Description
The numerical representation of the SQL plan for the cursor.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PLAN_HASH_VALUE or PLANHASH

Begin Snap ID attribute

Description
The beginning of the snap ID.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BEGIN_SNAP_ID or BEGINSNAP

End Snap ID attribute

Description
The end of the snap ID.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
END_SNAP_ID or ENDSNAP

Startup Time attribute

Description
The startup time for the database.

Type Timestamp

Warehouse name
STARTUP_TIME or STARTUPT

Begin Interval attribute

Description
The begin time for the statistic.

Type Timestamp

Warehouse name
BEGIN_INTERVAL or BEGINTER

End Interval attribute

Description
The end time for the statistic.

Type Timestamp

Warehouse name
END_INTERVAL or ENDINTER

Optimizer Cost attribute

Description
The cost of the query that is given by the optimizer.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OPTIMIZER_COST or OPTIMCOST

Optimizer Mode attribute

Description
The mode under which the SQL statement is executed.

Type String

Warehouse name
OPTIMIZER_MODE or OPTIMMODE

Optimizer Hash Value attribute

Description
The hash value for the optimizer environment.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
OPTIMIZER_HASH_VALUE or OPTIMHASH

Sharable Mem (bytes) attribute

Description
The amount of shared memory that is used by the child cursor (in bytes).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHARABLE_MEM or SHAREMEM

Sharable Mem(KB) attribute

Description
The amount of shared memory used by the child cursor (in KB).

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHARABLE_MEM_KB or SHAREMEMKB

Loaded Versions attribute

Description
Indicates whether the context heap is loaded (1) or not (0).

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOADED_VERSIONS or LOADEDVER

Version Count attribute

Description
The number of children that are associated with the cursor.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
VERSION_COUNT or VERSIONCNT

Module attribute

Description
The name of the module that was executing at the time.

Type String

Warehouse name
MODULE

Action attribute

Description
The name of the action that was executing at the time.

Type String

Warehouse name
ACTION

SQL Profile attribute

Description
The name of the applied SQL profile.

Type String

Warehouse name
SQL_PROFILE or SQLPROFILE

Force Matching Signature attribute

Description
The signature that is used when the cursor_sharing parameter is set to force.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FORCE_MATCHING_SIGNATURE or FORCEMSIGN

Parsing Schema ID attribute

Description
The ID of the schema that is used to originally build the child cursor.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PARSING_SCHEMA_ID or PARSCHEMID

Parsing Schema Name attribute

Description
The name of the schema that was used to originally build the child cursor.

Type String

Warehouse name
PARSING_SCHEMA_NAME or PARSCHEMNA

Fetches Total attribute

Description
The cumulative number of fetches that are associated with the SQL statement.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FETCHES_TOTAL or FETCHESTOT

Fetches Delta attribute

Description
The delta number of fetches that are associated with the SQL statement.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FETCHES_DELTA or FETCHESDEL

Fetch Count Total attribute

Description
The cumulative number of times that this cursor is fully executed.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FETCH_COUNT_TOTAL or EOFCTOT

Fetch Count Delta attribute

Description
The delta number of times that this cursor is fully executed.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FETCH_COUNT_DELTA or EOFCDEL

Sorts Total attribute

Description
The cumulative number of sorts that are done for this child cursor.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SORTS_TOTAL or SORTSTOT

Sorts Delta attribute

Description
The delta number of sorts that are done for this child cursor.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SORTS_DELTA or SORTSDEL

Executions Total attribute

Description
The cumulative number of executions that take place on this object.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
EXECUTIONS_TOTAL or EXECUTETOT

Executions Delta attribute

Description
The delta number of executions that take place on this object.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
EXECUTION_DELTA or EXECUTEDEL

PX Servers Exec Total attribute

Description
The cumulative number of PX Server executions.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PX_SERVERS_EXEC_TOTAL or PXSEXECTOT

PX Servers Exec Delta attribute

Description
The delta number of PX Server executions.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PX_SERVERS_EXEC_DELTA or PXSEXECDEL

Loads Total attribute

Description
The cumulative number of times that the object is either loaded or reloaded.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOADS_TOTAL or LOADSTOT

Loads Delta attribute

Description
The delta number of times that the object is either loaded or reloaded.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LOADS_DELTA or LOADSDEL

Invalidations Total attribute

Description
The cumulative number of times that this child cursor is invalidated.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INVALIDATIONS_TOTAL or INVALIDTOT

Invalidations Delta attribute

Description
The delta number of times that this child cursor is invalidated.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INVALIDATIONS_DELTA or INVALIDDEL

Parse Calls Total attribute

Description
The cumulative number of parse calls for this child cursor.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PARSE_CALLS_TOTAL or PARSECTOT

Prase Calls Delta attribute

Description
The delta number of parse calls for this child cursor.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PARSE_CALLS_DELTA or PARSECDEL

Disk Reads Total attribute

Description
The cumulative number of disk reads for this child cursor.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_READS_TOTAL or DISKRDTOT

Disk Reads Delta attribute

Description
The delta number of disk reads for this child cursor.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_READS_DELTA or DISKRDDEL

Buffer Gets Total attribute

Description
The cumulative number of buffer gets for this child cursor.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BUFFER_GETS_TOTAL or BUFGETSTOT

Buffer Gets Delta attribute

Description
The delta number of buffer gets for this child cursor.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BUFFER_GETS_DELTA or BUFGETSDEL

Rows Processed Total attribute

Description
The cumulative number of rows the parsed SQL statements returns.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ROWS_PROCESSED_TOTAL or ROWSPROTOT

Rows Processed Delta attribute

Description
The delta number of rows the parsed SQL statements returns.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ROWS_PROCESSED_DELTA or ROWSPRODEL

CPU Time Total(s) attribute

Description
The cumulative value of the CPU time that is used by this cursor for parsing, executing, or fetching.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CPU_TIME_TOTAL or CPUTIMETOT

CPU Time Delta(s) attribute

Description
The delta value of CPU time that is used by this cursor for parsing, executing, or fetching.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CPU_TIME_DELTA or CPUTIMEDEL

Elapsed Time Total(s) attribute

Description
The cumulative value of elapsed time that is used by this cursor for parsing, executing, or fetching.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ELAPSED_TIME_TOTAL or ELATIMETOT

Elapsed Time Delta(s) attribute

Description
The delta value of elapsed time that is used by this cursor for parsing, executing, or fetching.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ELAPSED_TIME_DELTA or ELATIMEDEL

IO Wait Total(s) attribute

Description
The cumulative value of user I/O wait time.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IO_WAIT_TOTAL or IOWAITTOT

IO Wait(s) Delta attribute

Description
The delta value of user I/O wait time.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
IO_WAIT_DELTA or IOWAITDEL

Cluster Wait Total(s) attribute

Description
The cumulative value of cluster wait time.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CLUSTER_WAIT_TOTAL or CLWAITTOT

Cluster Wait(s) Delta attribute

Description
The delta value of cluster wait time.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CLUSTER_WAIT_DELTA or CLWAITDEL

App Wait(s) Total attribute

Description
The cumulative value of application wait time.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
APP_WAIT_TOTAL or APWAITTOT

App Wait(s) Delta attribute

Description
The delta value of application wait time.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
APP_WAIT_DELTA or APWAITDEL

Concurrency Wait(s) Total attribute

Description
The cumulative value of concurrency wait time.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CONCURRENCY_WAIT_TOTAL or CCWAITTOT

Concurrency Wait(s) Delta attribute

Description
The delta value of concurrency wait time.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CONCURRENCY_WAIT_DELTA or CCWAITDEL

Direct Writes Total attribute

Description
The cumulative value of direct writes.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DIRECT_WRITES_TOTAL or DIRWRITOT

Direct Writes Delta attribute

Description
The delta value of direct writes.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DIRECT_WRITES_DELTA or DIRWRIDEL

PL/SQL Exec Time(s) Total attribute

Description
The cumulative value of PL/SQL execution time.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PL_EXEC_TIME_TOTAL or PLEXECTOT

PL/SQL Exec Time(s) Delta attribute

Description
The delta value of PL/SQL execution time.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PL_EXEC_TIME_DELTA or PLEXECDEL

Java Exec Time(s) Total attribute

Description
The cumulative value of Java execution time.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
JAVA_EXEC_TIME_TOTAL or JAEXECTOT

Java Exec Time(s) Delta attribute

Description
The delta value of Java execution time.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
JAVA_EXEC_TIME_DELTA or JAEXECDEL

Elapse Time(s) Per Execution attribute

Description
The value of elapsed time per execution.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ELAPSE_TIME_PER_EXEC or ELPEXEC

CPU Time(s) Per Execution attribute

Description
The value of CPU time per execution.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CPU_TIME_PER_EXEC or CPUEXEC

Buffer Gets Per Execution attribute

Description
The number of buffer gets per execution.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
GETS_PER_EXEC or GETSEXEC

Disk Reads Per Execution attribute

Description
The number of disk reads per execution.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_READS_PER_EXEC or DISKREXEC

Rows Per execution attribute

Description
The number of rows processed per execution.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ROWS_PER_EXEC or ROWEXEC

(%) Total CPU time attribute

Description
The percentage of the CPU time in total CPU time.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CPU_PCT or CPUPCT

(%) Total Cluster Wait Time attribute

Description
The percentage of the cluster wait time in total cluster wait time.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
CLUSTER_WAIT_PCT or CLWPCT

(%) Total DB Time attribute

Description
The percentage of the elapsed time in total elapsed time.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DBTIME_PCT or DBTMPCT

(%) Total Buffer Gets attribute

Description
The percentage of the buffer gets in total buffer gets.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BUFFER_GETS_PCT or BUFFPCT

(%) Total Disk Reads attribute

Description
The percentage of the disk reads in total disk reads.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
DISK_READS_PCT or DISKRPCT

(%) Total Parse Calls attribute

Description
The percentage of the parse calls in total parse calls.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PARSE_CALLS_PCT or PARCALPCT

(%)Total Sharable Mem attribute

Description
The percentage of shared memory in total shared memory.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SHARABLE_MEM_PCT or SHAMEMPCT

(%)Total Version Count attribute

Description
The percentage of the version count in total version count.

Type Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
VERSION_COUNT_PCT or VERCNTPCT

Order By attribute

Description
Order by columns, reserved for internal usage.

Type String

Warehouse name
ORDERBY

Begin Hour Before Current attribute

Description
The hour before current time for begin time.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
BEG_HOUR or BEGHOUR

End Hour Before Current attribute

Description
The hour before current time for end time.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
END_HOUR or ENDHOUR

Row Order attribute

Description
The order of SQL statements.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ROWORDER

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB TSFile Metric attribute group

The RDB TSFile Metric attribute group provides information about the file metrics for the most recent 10-minute interval.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB TSFile Metric attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INSTID

Begin Time attribute: This attribute is a key attribute.

Description
The begin time of the interval.

Type Timestamp

Warehouse name
BEGIN_TIME or BEGTM

End Time attribute: This attribute is a key attribute.

Description
The end time of the interval.

Type Timestamp

Warehouse name
END_TIME or ENDTM

Interval Size(ms) attribute

Description
The interval size (in milliseconds).

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INTERVAL_SIZE_MS or INTCSEC

File ID attribute: This attribute is a key attribute.

Description
The identifier for the file.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FILE_ID or FILEID

File Creation Timestamp attribute

Description
The date and time when the file was created.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
FILE_CREATION_TIMESTAMP or CRTTM

Average File Read Time (ms) attribute

Description
The average file read time (in milliseconds).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_FILE_READ_TIME_MS or AVGRDTM

Average File Write Time (ms) attribute

Description
The average file write time (in milliseconds).

Type Real number (64-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
AVERAGE_FILE_WRITE_TIME_MS or AVGWRTM

Physical Reads attribute

Description
The number of physical reads.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PHYSICAL_READS or PHYRDS

Physical Writes attribute

Description
The number of physical writes.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PHYSICAL_WRITES or PHYWRS

Physical Block Reads attribute

Description
The number of physical block reads.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PHYSICAL_BLOCK_READS or PHYBLKRD

Physical Block Writes attribute

Description
The number of physical block writes.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
PHYSICAL_BLOCK_WRITES or PHYBLKWR

Tablespace Name attribute: This attribute is a key attribute.

Description
The name of the table space that contains the file.

Type String

Warehouse name
TABLESPACE_NAME or TSNAME

File Name attribute: This attribute is a key attribute.

Description
The name of the database file.

Type String

Warehouse name
FILE_NAME or FNAME

File Creation Time attribute

Description
The date and time when the file is created.

Type Timestamp

Warehouse name
FILE_CREATION_TIME or CRTTMT

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

RDB Undo Statistics attribute group

The RDB Undo Tablespace Statistics attribute group provides statistical data for the undo table space in 10-minute intervals on the last day if the system is in automatic undo management mode. The rows are in descending order by the END_TIME value.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the RDB Undo Statistics attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Instance ID attribute: This attribute is a key attribute.

Description
The identifier for the instance.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
INSTANCE_ID or INST_ID

Begin Time attribute: This attribute is a key attribute.

Description
Identifies the beginning time of the interval.

Type Timestamp

Warehouse name
BEGIN_TIME or UNDOSTRT

End Time attribute: This attribute is a key attribute.

Description
Identifies the end time of the interval.

Type Timestamp

Warehouse name
END_TIME or UNDOEND

The Last Active Undo tablespace attribute: This attribute is a key attribute.

Description
Represents the last active undo table space in a specified time interval. The table space ID of the active undo table space is displayed in this column.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
LAST_ACTIVE_UNDO_TABLESPACE or UNDOTSID

Undo Blocks attribute

Description
The total number of consumed undo blocks.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
UNDO_BLOCKS or UNDOBLK

Transaction Count attribute

Description
The total number of transactions that ran within the period.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TRANSACTION_COUNT or TXNCNT

Max SQL Length (sec) attribute

Description
The length of the longest query (in seconds) that ran in the instance during the period.

Type Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_SQL_LENGTH or MAXSQLLEN

Max SQL ID attribute

Description
The SQL identifier of the longest running SQL statement in the period.

Type String

Warehouse name
MAX_SQL_ID or MAXSQLID

Max Concurrency attribute

Description
The highest number of transactions that ran concurrently within the period.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
MAX_CONCURRENCY or MAXCON

Stealing Unexpired Extents Attempts attribute

Description
The number of the attempts to obtain undo space by stealing unexpired extents from other transactions.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
STEALING_UNEXPIRED_EXTENTS_ATTEMPTS or UNXPSTEAL

Removing Unexpired Blocks Count attribute

Description
The number of unexpired blocks that are removed from certain undo segments so they can be used by other transactions.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
REMOVING_UNEXPIRED_BLOCKS_COUNT or UNXPBLKREL

Unexpired Blocks Reuse Count attribute

Description
The number of unexpired undo blocks that are reused by transactions.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
UNEXPIRED_BLOCKS_REUSE_COUNT or UNEPBLKREU

Expired Blocks Stealing Attempts attribute

Description
The number of attempts to steal expired undo blocks from other undo segments.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
EXPIRED_BLOCKS_STEALING_ATTEMPTS or EXPSTEAL

Expired Blocks REL Count attribute

Description
The number of expired undo blocks that are stolen from other undo segments.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
EXPIRED_BLOCKS_REL_COUNT or EXPBLKREL

Expired Blocks Reuse Count attribute

Description
The number of expired undo blocks that are reused within the same undo segments.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
EXPIRED_BLOCKS_REUSE_COUNT or EXPBLKREU

Snapshot Too Old Error Count attribute

Description
The number of times the ORA-01555 error occurred. Increasing the value of the UNDO_RETENTION parameter can reduce the occurrence of this error.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
SNAPSHOT_OLD_ERROR_COUNT or UNDOSSERR

No Space Error Count attribute

Description
The number of times space was requested in the undo table space and there was no free space available because all space in the undo table space was in use by active transactions. The corrective action is to add more space to the undo table space.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
NO_SPACE_ERROR_COUNT or UNDONSERR

Active Blocks attribute

Description
The total number of blocks in the active extents of the undo table space for the instance at the sampled time in the period.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ACTIVE_BLOCKS or ACTBLK

Unexpired Blocks attribute

Description
The total number of blocks in the unexpired extents of the undo table space for the instance at the sampled time in the period.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
UNEXPIRED_BLOCKS or UNEXPBLK

Expired Blocks attribute

Description
The total number of blocks in the expired extents of the undo table space for the instance at the sampled time in the period.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
EXPIRED_BLOCKS or EXPBLK

Tuned Undo Retention (sec) attribute

Description
The amount of time (in seconds) for which undo will not be recycled from the time it was committed. At any point in time, the latest value of the TUNED_UNDORETENTION parameter is used to determine whether data committed at a particular time can be recycled.

Type Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- Not Available (-1)
- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
TUNED_UNDO_RETENTION or TUNUNDORET

Instance Name attribute: This attribute is a key attribute.

Description
The name of the instance.

Type String

Warehouse name
INSTANCE_NAME or DBINSTNAME

Server Name attribute: This attribute is a key attribute.

Description
The host name of the instance.

Type String

Warehouse name
SERVER_NAME or DBHOSTNAME

Database Name attribute: This attribute is a key attribute.

Description
The name of the database.

Type String

Warehouse name
DATABASE_NAME or DBUNIQNAME

Take Action Status attribute group

The Take Action Status attribute group contains information about the results of actions this agent has executed.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions
The following list contains information about each attribute in the Take Action Status attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Action Name attribute

Description
The name of the action that was run.

Type String

Warehouse name
ACTION_NAME or TSKNAME

Action Status attribute

Description
The return code from the Action Status dialog which is the return code category defined for the application return code.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- OK (0)
- NOT APPLICABLE (1)
- GENERAL ERROR (2)
- WARNING (3)
- NOT RUNNING (4)

- DEPENDENT NOT RUNNING (5)
- ALREADY RUNNING (6)
- PREREQ NOT RUNNING (7)
- TIMED OUT (8)
- DOESNT EXIST (9)
- UNKNOWN (10)
- DEPENDENT STILL RUNNING (11)
- INSUFFICIENT USER AUTHORITY (12)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ACTION_STATUS or TSKSTAT

Action App Return Code attribute

Description
The application return code of the action is the actual return code of the command that is executed.

Type Integer (32-bit numeric property)

Warehouse name
ACTION_APP_RETURN_CODE or TSKAPRC

Action Message attribute

Description
The message associated with the return code of the action.

Type String

Warehouse name
ACTION_MESSAGE or TSKMSGE

Action Instance attribute

Description
The instance associated with the output produced by running the action.

Type String

Warehouse name
ACTION_INSTANCE or TSKINST

Action Results attribute

Description
The output produced by running the action.

Type String

Warehouse name
ACTION_RESULTS or TSKOUTP

Action Command attribute

Description
The command that was run by the action.

Type String

Warehouse name
ACTION_COMMAND or TSKCMND

Action Node attribute

Description
The node where the action ran.

Type String

Warehouse name
ACTION_NODE or TSKORGN

Action Subnode attribute

Description
The subnode where the action ran.

Type String

Warehouse name
ACTION_SUBNODE or TSKSBND

Action ID attribute

Description
The id of the action.

Type Integer (32-bit numeric property)

Warehouse name
ACTION_ID or TSKID

Action Type attribute

Description
The type of the action.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- UNKNOWN (0)
- AUTOMATION (1)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
ACTION_TYPE or TSKTYPE

Action Owner attribute

Description
The name of the situation or user that initiated the action.

Type String

Warehouse name
ACTION_OWNER or TSKOWNR

Thread Pool Status attribute group

The Thread Pool Status attribute group contains information that reflects the status of the internal thread pool used to collect data asynchronously.

Historical group
This attribute group is eligible for use with Tivoli Data Warehouse.

Attribute descriptions

The following list contains information about each attribute in the Thread Pool Status attribute group:

Node attribute: This attribute is a key attribute.

Description
The managed system name of the agent.

Type String

Warehouse name
NODE

Timestamp attribute

Description
The local time at the agent when the data was collected.

Type String

Warehouse name
TIMESTAMP

Thread Pool Size attribute

Description
The number of threads currently existing in the thread pool.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_SIZE or THPSIZE

Thread Pool Max Size attribute

Description
The maximum number of threads allowed to exist in the thread pool.

Type Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_MAX_SIZE or TPMAXSZ

Thread Pool Active Threads attribute

Description
The number of threads in the thread pool currently active doing work.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_ACTIVE_THREADS or TPACTTH

Thread Pool Avg Active Threads attribute

Description
The average number of threads in the thread pool simultaneously active doing work.

Type Real number (32-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_AVG_ACTIVE_THREADS or TPAVGAT

Thread Pool Min Active Threads attribute

Description
The smallest number of threads in the thread pool that have simultaneously been active doing work.

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_MIN_ACTIVE_THREADS or TPMINAT

Thread Pool Max Active Threads attribute

Description
The peak number of threads in the thread pool that have simultaneously been active doing work.

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_MAX_ACTIVE_THREADS or TPMAXAT

Thread Pool Queue Length attribute

Description
The number of jobs currently waiting in the thread pool queue.

Type Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_QUEUE_LENGTH or TPQLGTH

Thread Pool Avg Queue Length attribute

Description
The average length of the thread pool queue during this run.

Type Real number (32-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_AVG_QUEUE_LENGTH or TPAVGQL

Thread Pool Min Queue Length attribute

Description
The minimum length the thread pool queue has reached.

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_MIN_QUEUE_LENGTH or TPMINQL

Thread Pool Max Queue Length attribute

Description
The peak length the thread pool queue has reached.

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_MAX_QUEUE_LENGTH or TPMAXQL

Thread Pool Avg Job Wait attribute

Description
The average time a job spends waiting on the thread pool queue in seconds.

Type Real number (32-bit gauge) with 2 decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_AVG_JOB_WAIT or TPAVJBW

Thread Pool Total Jobs attribute

Description
The number of jobs completed by all threads in the pool since agent start.

Type Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other values will display the actual value returned by the agent in the Tivoli Enterprise Portal.

Warehouse name
THREAD_POOL_TOTAL_JOBS or TPTJOBS

Disk capacity planning for historical data

Disk capacity planning for a monitoring agent is a prediction of the amount of disk space to be consumed for each attribute group with historical data that is being collected. Required disk storage is an important factor when you are defining data collection rules and your strategy for historical data collection.

The Capacity planning for historical data table provides the following information required to calculate disk space for this monitoring agent:

Table Table name as it is displayed in the warehouse database, if the attribute group is configured to be written to the warehouse. The table name listed here corresponds to the table name in "Attribute groups for the monitoring agent" on page 63.

Attribute group
Name of the attribute group used to create the table in the warehouse database if it is short

enough to fit in the table naming constraints of the database being used for the warehouse. The attribute group name listed here corresponds to the Warehouse table name in "Attribute groups for the monitoring agent" on page 63.

Bytes per row (agent)
Estimate of the record length for each row or instance written to the agent disk for historical data collection. This estimate can be used for agent disk space planning purposes.

Database bytes per row (warehouse)
Estimate of the record length for detailed records written to the warehouse database, if the attribute group is configured to be written to the warehouse. Detailed records are records that have been uploaded from the agent for long-term historical data collection. This estimate can be used for warehouse disk-space planning purposes.

Aggregate bytes per row (warehouse)
Estimate of the record length for aggregate records written to the warehouse database, if the attribute group is configured to be written to the warehouse. Aggregate records are created by the Summarization agent for attribute groups that have been configured for summarization. This estimate can be used for warehouse disk-space planning purposes.

In addition to the information in the tables, you must know the number of rows of data that you plan to collect. An attribute group can have single or multiple rows of data depending on the application environment that is being monitored. For example, if your attribute group is monitoring each processor in your computer and you have a dual processor computer, the number of rows is two.

Table 6. Capacity planning for historical data logged by the Oracle Database Extended agent

Table	Attribute group	Bytes per row (agent)	Database bytes per row (warehouse)	Aggregate bytes per row (warehouse)
KRZAGINF	KRZ_AGENT_EVENT	856	867	904
KRZAGTLSNR	KRZ_AGENT_LISTENER	1318	1338	1375
KRZAGTNETS	KRZ_AGENT_REMOTE_CONNECTION	1956	1971	2008
KRZASMLOGD	KRZ_ASM_ALERT_LOG_DETAILS	392	397	434
KRZASMLOGS	KRZ_ASM_ALERT_LOG_SUMMARY	526	536	681
KRZASMBGPS	KRZ_ASM_BGPROCESS_STATS	184	186	262
KRZASMCLIT	KRZ_ASM_CLIENT	388	394	431
KRZASMTOPO	KRZ_ASM_DATABASE_TOPOLOGY	428	429	466
KRZASMDISK	KRZ_ASM_DISK	836	871	1002
KRZASMDKGP	KRZ_ASM_DISKGROUP	448	482	750
KRZASMDGIO	KRZ_ASM_DISKGROUPIOSTAT	392	488	1308
KRZASMDKIO	KRZ_ASM_DISKIOSTAT	432	530	1350
KRZASMFILE	KRZ_ASM_FILEINFO	484	532	714
KRZASMINST	KRZ_ASM_INSTANCE	324	337	374
KRZASMOPRA	KRZ_ASM_OPERATION	284	294	589
KRZASMPARA	KRZ_ASM_PARAMETER	1892	1924	1961
KRZASMPOS	KRZ_ASM_PERFORMANCE_OBJECT_STATUS	288	289	326
KRZASMPROS	KRZ_ASM_PROCESS	1232	1328	1902
KRZASMTMPL	KRZ_ASM_TEMPLATE	244	250	287
KRZDBINF	KRZ_DATABASE_INFORMATION	286	292	329

Table 6. Capacity planning for historical data logged by the Oracle Database Extended agent (continued)

Table	Attribute group	Bytes per row (agent)	Database bytes per row (warehouse)	Aggregate bytes per row (warehouse)
KRZDBINFO	KRZ_DATABASE_OVERVIEW	832	882	919
KRZDGALOGD	KRZ_DG_ALERT_LOG_DETAILS	392	397	434
KRZDGALOGS	KRZ_DG_ALERT_LOG_SUMMARY	526	536	681
KRZDGARCHL	KRZ_DG_ARCHIVED_LOG	936	973	1037
KRZDGARCHD	KRZ_DG_ARCHIVE_DEST	2020	2081	2505
KRZDGDSTST	KRZ_DG_ARCHIVE_DEST_AND_STATUS	2212	2288	2798
KRZDGARCHS	KRZ_DG_ARCHIVE_DEST_STATUS	1144	1174	1265
KRZDGARCHG	KRZ_DG_ARCHIVE_GAP	192	194	231
KRZDGBGPS	KRZ_DG_BGPROCESS_STATS	180	181	257
KRZDGCUSQ	KRZ_DG_CUSTOMIZED_SQL_DETAIL	1968	2052	2344
KRZDGCUSS	KRZ_DG_CUSTOMIZED_SQL_SUMMARY	1424	1443	1495
KRZDGDBINF	KRZ_DG_DATABASE_OVERVIEW	832	882	919
KRZDGDATAF	KRZ_DG_DATAFILE	1460	1493	2175
KRZDGDKSP	KRZ_DG_DISK_SPACE	717	761	1131
KRZDGLARCH	KRZ_DG_LATEST_ARCHIVED_LOG	936	973	1177
KRZDGLOG	KRZ_DG_LOG	260	269	478
KRZDGLOGF	KRZ_DG_LOGFILE	452	460	497
KRZDGSTDPO	KRZ_DG_LOGSTDBY_PROCESS	508	519	556
KRZDGSTDPS	KRZ_DG_LOGSTDBY_PROCESS_STAT	208	214	485
KRZDGSTDPG	KRZ_DG_LOGSTDBY_PROGRESS	280	289	412
KRZDGLOGST	KRZ_DG_LOGSTDBY_STATE	312	315	352
KRZDGSTDST	KRZ_DG_LOGSTDBY_STATISTICS	336	353	838
KRZDGLOGSS	KRZ_DG_LOGSTDBY_STATS	296	297	334
KRZDGLOGHI	KRZ_DG_LOG_HISTORY	256	264	301
KRZDGLOGHS	KRZ_DG_LOG_HISTORY_STAT	376	401	1513
KRZDGMGSTD	KRZ_DG_MANAGED_STANDBY	392	406	599
KRZDGMGSTS	KRZ_DG_MANAGED_STANDBY_STAT	196	199	353
KRZDGPARA	KRZ_DG_PARAMETER	996	1020	1057
KRZDGPOS	KRZ_DG_PERFORMANCE_OBJECT_STATUS	288	289	326
KRZDGRECPR	KRZ_DG_RECOVERY_PROGRESS	288	298	631
KRZDGSTDLG	KRZ_DG_STANDBY_LOG	328	341	378
KRZDGSTATS	KRZ_DG_STATS	352	357	475
KRZDGSTATU	KRZ_DG_STATUS	508	519	556
KRZDAG	KRZ_MONITORED_DATABASES	197	198	235
KRZPOBJST	KRZ_PERFORMANCE_OBJECT_STATUS	288	289	326
KRZACTINS	KRZ_RDB_ACTIVE_INSTANCE	812	823	860
KRZRDBLOGD	KRZ_RDB_ALERT_LOG_DETAILS	392	397	434
KRZRDBLOGS	KRZ_RDB_ALERT_LOG_SUMMARY	526	536	681

Table 6. Capacity planning for historical data logged by the Oracle Database Extended agent (continued)

Table	Attribute group	Bytes per row (agent)	Database bytes per row (warehouse)	Aggregate bytes per row (warehouse)
KRZARCDEST	KRZ_RDB_ARCHIVE_DEST	744	760	797
KRZARCHIVE	KRZ_RDB_ARCHIVE_OVERVIEW	268	294	476
KRZRAMCLIT	KRZ_RDB_ASM_CLIENT	388	394	431
KRZRAMDISK	KRZ_RDB_ASM_DISK	836	871	1002
KRZRAMDKGP	KRZ_RDB_ASM_DISKGROUP	448	482	750
KRZRAMDGIO	KRZ_RDB_ASM_DISKGROUPIOSTAT	392	488	1308
KRZRAMDKIO	KRZ_RDB_ASM_DISKIOSTAT	432	530	1350
KRZRAMTMPL	KRZ_RDB_ASM_TEMPLATE	244	250	287
KRZRDBBGPS	KRZ_RDB_BGPROCESS_STATS	184	186	262
KRZBUFCADE	KRZ_RDB_BUFFER_CACHE_DETAIL	340	359	693
KRZBUFCART	KRZ_RDB_BUFFER_CACHE_RATIO	208	220	389
KRZCAFURA	KRZ_RDB_CACHE_FUSION_WRITE	200	211	353
KRZDBCLUS	KRZ_RDB_CLUSTERS	568	660	1492
KRZDBCABK	KRZ_RDB_CLUSTER_AVG_BLKS	344	356	444
KRZDBCLSZ	KRZ_RDB_CLUSTER_SIZE	460	482	664
KRZRDBCUSQ	KRZ_RDB_CUSTOMIZED_SQL_DETAIL	1968	2052	2344
KRZRDBCUSS	KRZ_RDB_CUSTOMIZED_SQL_SUMMARY	1424	1443	1495
KRZRDBSTAT	KRZ_RDB_DATABASE_STATISTICS_ SUMMARY	484	659	2157
KRZRDBTOPO	KRZ_RDB_DATABASE_TOPOLOGY	428	429	466
KRZDAFCOUT	KRZ_RDB_DATAFILE_COUNT	200	219	428
KRZDAFIO	KRZ_RDB_DATAFILE_IO	860	907	1512
KRZDAFOVEW	KRZ_RDB_DATAFILE_OVERVIEW	868	948	1321
KRZDBAEXTS	KRZ_RDB_DBA_EXTENTS	424	435	472
KRZDHSQLP	KRZ_RDB_DBA_HIST_SQL_PLAN	1900	1943	2196
KRZDBAHSMS	KRZ_RDB_DBA_HIST_SYSMETRIC_ SUMMARY	416	454	585
KRZDICCADE	KRZ_RDB_DICTIONARY_CACHE_DETAIL	248	262	377
KRZDICCART	KRZ_RDB_DICTIONARY_CACHE_RATIO	200	211	369
KRZRDBDKSP	KRZ_RDB_DISK_SPACE	793	839	1209
KRZRDBFDL	KRZ_RDB_FLASHBACK_DATABASE_LOG	236	243	280
KRZRDBFDLF	KRZ_RDB_FLASHBACK_DATABASE_ LOGFILE	749	761	798
KRZRDBFRA	KRZ_RDB_FLASH_RECOVERY_AREA_USAGE	216	219	377
KRZGCSBLO	KRZ_RDB_GCS_BLOCK_LOST	216	229	425
KRZGCSCRL	KRZ_RDB_GCS_CR_LATENCY	264	315	785
KRZGCSCRB	KRZ_RDB_GCS_CUR_BLOCK	264	315	769
KRZGCSMEM	KRZ_RDB_GCS_MEM	284	297	850
KRZGESENQS	KRZ_RDB_GES_ENQ_STAT	236	260	534

Table 6. Capacity planning for historical data logged by the Oracle Database Extended agent (continued)

Table	Attribute group	Bytes per row (agent)	Database bytes per row (warehouse)	Aggregate bytes per row (warehouse)
KRZGESLAT	KRZ_RDB_GES_LATENCY	208	220	389
KRZGESLOCK	KRZ_RDB_GES_LOCK	508	521	585
KRZGESMEM	KRZ_RDB_GES_MEM	364	387	424
KRZDBIDXS	KRZ_RDB_INDEXES	1884	2026	3261
KRZDBIXAB	KRZ_RDB_INDEX_AVG_DATA_BLOCK	344	356	444
KRZDBIXSZ	KRZ_RDB_INDEX_SIZE	460	482	664
KRZACTINSR	KRZ_RDB_INSTANCES_ACTIVE_RATIO	244	254	428
KRZINSTINF	KRZ_RDB_INSTANCE_INFO	340	354	391
KRZINTCON	KRZ_RDB_INTER_CONNECTIONS	324	410	855
KRZRDBLATC	KRZ_RDB_LATCH_CHILDREN	376	433	914
KRZRDBLAT	KRZ_RDB_LATCH_STATISTICS	368	424	905
KRZLIBCADE	KRZ_RDB_LIBRARY_CACHE_DETAIL	240	262	482
KRZLIBCART	KRZ_RDB_LIBRARY_CACHE_RATIO	216	237	457
KRZRDBLSES	KRZ_RDB_LOCK_CONFLICT	428	442	479
KRZRDBLKD	KRZ_RDB_LOCK_DETAIL	332	343	407
KRZRDBLS	KRZ_RDB_LOCK_STATISTICS	652	660	740
KRZMSGSTAT	KRZ_RDB_MSG_STAT	344	429	1225
KRZRDBOBJS	KRZ_RDB_OBJECTS	508	522	559
KRZRDBOPTS	KRZ_RDB_OPTION	304	306	343
KRZRDBPARA	KRZ_RDB_PARAMETER	996	1020	1057
KRZRDBPOS	KRZ_RDB_PERFORMANCE_OBJECT_STATUS	288	289	326
KRZRDPGADT	KRZ_RDB_PGA_DETAIL	260	263	343
KRZRDPGAOV	KRZ_RDB_PGA_OVERVIEW	576	874	3309
KRZRDBPTA	KRZ_RDB_PGA_TARGET_ADVICE	284	354	845
KRZRDBPROD	KRZ_RDB_PROCESS_DETAIL	1020	1083	1539
KRZRDBPROS	KRZ_RDB_PROCESS_SUMMARY	280	305	729
KRZRDBRFD	KRZ_RDB_RECOVERY_FILE_DEST	252	262	631
KRZRESLIMN	KRZ_RDB_RESOURCE_LIMITATION	304	328	553
KRZRDBRSD	KRZ_RDB_ROLLBACK_SEGMENT_DETAIL	360	387	798
KRZRDBRSS	KRZ_RDB_ROLLBACK_SEGMENT_SUMMARY	296	327	961
KRZSEGALOC	KRZ_RDB_SEGMENT_ALLOCATION	552	602	639
KRZSEGSTAT	KRZ_RDB_SEGMENT_STATISTICS	424	435	472
KRZSESSDTL	KRZ_RDB_SESSION_DETAILS	1844	1934	2329
KRZSESSSMY	KRZ_RDB_SESSION_SUMMARY	288	302	941
KRZSEWARAC	KRZ_RDB_SESSION_WAIT	328	333	413
KRZSGADETL	KRZ_RDB_SGA_DETAIL	240	261	298
KRZSGAOVEW	KRZ_RDB_SGA_OVERVIEW	400	588	1119
KRZSGASIZE	KRZ_RDB_SGA_SIZE	504	777	1163

Table 6. Capacity planning for historical data logged by the Oracle Database Extended agent (continued)

Table	Attribute group	Bytes per row (agent)	Database bytes per row (warehouse)	Aggregate bytes per row (warehouse)
KRZDBSQLT	KRZ_RDB_SQLTEXT	644	650	687
KRZSMETRIC	KRZ_RDB_SYS_METRIC	368	384	472
KRZSMETGP	KRZ_RDB_SYS_METRIC_GROWTH_PERCENT	508	561	896
KRZSMETHIS	KRZ_RDB_SYS_METRIC_HISTORY	368	384	472
KRZSYSSTAT	KRZ_RDB_SYS_STATISTICS	280	302	441
KRZDBTABLS	KRZ_RDB_TABLES	812	921	2046
KRZTSNLUE	KRZ_RDB_TABLESPACENORMAL_USAGE	320	447	1037
KRZTSTPUE	KRZ_RDB_TABLESPACETEMP_USAGE	272	353	747
KRZTSOVEW	KRZ_RDB_TABLESPACE_OVERVIEW	456	535	572
KRZDBTBNR	KRZ_RDB_TABLE_NUM_ROWS	344	348	428
KRZDBTBSZ	KRZ_RDB_TABLE_SIZE	460	482	664
KRZTPFOVEW	KRZ_RDB_TEMPFILE_OVERVIEW	860	939	1339
KRZTOPSQL	KRZ_RDB_TOP_SQL	1052	1130	3154
KRZTSFMTC	KRZ_RDB_TSFILE_METRIC	844	878	1189
KRZRDBUTS	KRZ_RDB_UNDO_STATISTICS	360	380	1062
KRZTACTST	KRZ_TAKE_ACTION_STATUS	3480	3512	3549
KRZTHPLST	KRZ_THREAD_POOL_STATUS	124	168	550

For more information about historical data collection, see "Managing historical data" in the *IBM Tivoli Monitoring Administrator's Guide*.

Chapter 5. Situations reference

A situation is a logical expression involving one or more system conditions. Situations are used to monitor the condition of systems in your network. You can manage situations from the Tivoli Enterprise Portal by using the Situation Editor or from the command-line interface using the tacmd commands for situations. You can manage private situations in the private configuration XML file.

About situations

The monitoring agents that you use to monitor your system environment include a set of predefined situations that you can use as-is. You can also create new situations to meet your requirements.

Predefined situations contain attributes that check for system conditions common to many enterprises. Using predefined situations can improve the speed with which you can begin using the IBM Tivoli Composite Application Manager Extended Agent for Oracle Database. You can change the conditions or values being monitored by a predefined situation to the conditions or values best suited to your enterprise.

You can display predefined situations and create your own situations using the Situation editor. The left panel of the Situation editor initially lists the situations associated with the Navigator item that you selected. When you click a situation name or create a situation, the right panel opens with the following tabs:

Formula
Formula describing the condition being tested.

Distribution
List of managed systems (operating systems, subsystems, or applications) to which the situation can be distributed. All the Oracle Database Extended agent managed systems are assigned by default.

Expert advice
Comments and instructions to be read in the event workspace.

Action
Command to be sent to the system.

EIF Customize forwarding of the event to an Event Integration Facility receiver. (Available when the Tivoli Enterprise Monitoring Server has been configured to forward events.)

Until Options to close the event after a period of time, or when another situation becomes true.

Additional information about situations

The *Tivoli Enterprise Portal User's Guide* contains more information about predefined and custom situations and how to use them to respond to alerts.

For a list of the predefined situations and information about each individual situation for this monitoring agent, see "Predefined situations" on page 798.

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Predefined situations

The monitoring agent contains predefined situations, which are organized by Navigator item.

Agent level Navigator items

- Oracle Database Extended
  - Not applicable
- Net Service Connection
  - KRZ_TNS_Conn_Inactive_Crit
  - KRZ_Listener_Inactive_Crit
- TakeAction Result
  - Not applicable

Database (RDB) subnode

- Database
  - Not applicable
- Alert Log
  - Not applicable
- Archive
  - KRZ_RDB_Recovery_Space_Warn
  - KRZ_RDB_Recovery_Space_Crit
- Automatic Storage Management
  - KRZ_RDB_ASM_Disk_Unknown_Warn
  - KRZ_RDB_ASM_DiskGrp_Space_Crit
  - KRZ_RDB_ASM_DiskGrp_Space_Warn
  - KRZ_RDB_ASM_DiskGrp_Break_Crit
  - KRZ_RDB_ASM_DiskGrp_Redun_Crit
  - KRZ_RDB_ASM_DiskGrp_Redun_Warn
  - KRZ_RDB_ASM_DiskIO_Crit
  - KRZ_RDB_ASM_DiskGroupIO_Crit
- Cache
  - KRZ_RDB_Dict_Cache_Miss_Crit
  - KRZ_RDB_Dict_Cache_Hit_Crit
  - KRZ_RDB_Buf_Cache_Hit_Crit
  - KRZ_RDB_Lib_Cache_Hit_Crit
  - KRZ_RDB_Lib_Cache_Reload_Crit
- Configuration
  - Not applicable
- Contention
  - KRZ_RDB_Latch_ImmHitRatio_Warn
  - KRZ_RDB_Latch_WTWHitRatio_Warn
- Customized SQLs
  - Not applicable
- Database
  - KRZ_RDB_Resource_Consume_Crit
  - KRZ_RDB_Resource_Consume_Warn

  - KRZ_RDB_DB_Wait_Time_Warn
  - KRZ_RDB_Disk_Space_Warn
  - KRZ_RDB_Disk_Space_Crit
- Instance
  - KRZ_RDB_Active_Inst_Warn
  - KRZ_RDB_Active_Inst_Crit
  - KRZ_RDB_Inst_InActive_Crit
- Memory
  - KRZ_RDB_SGA_Total_Free_Crit
  - KRZ_RDB_SGA_Shared_Free_Crit
- Process
  - KRZ_RDB_BGProcess_Crit
- Real Application Clusters
  - KRZ_RDB_GCS_CR_Latency_Warn
  - KRZ_RDB_GCS_CR_Receive_Warn
  - KRZ_RDB_GCS_BLK_Rec_Warn
  - KRZ_RDB_GCS_BLK_Lat_Warn
  - KRZ_RDB_GCS_Block_Lost_Warn
  - KRZ_RDB_GES_Latency_Warn
- Session
  - Not applicable
- Tablespace
  - KRZ_RDB_TS_Offline_Warn
  - KRZ_RDB_Segment_PCIFree_Crit
  - KRZ_RDB_Segment_ExtFree_Crit
  - KRZ_RDB_TSTemp_Free_Crit
  - KRZ_RDB_TSTemp_Free_Warn
  - KRZ_RDB_TSNormal_Free_Crit
  - KRZ_RDB_TSNormal_Free_Warn
  - KRZ_RDB_DataFile_Offline_Warn
  - KRZ_RDB_DataFile_PCIFree_Warn
  - KRZ_RDB_Object_Invalid_Warn
- Top SQL
  - Not applicable
- Undo
  - Not applicable

ASM (ASM) subnode
- ASM
  - Not applicable
- Alert Log
  - Not applicable
- Availability
  - KRZ_ASM_Instance_Offline_Crit
  - KRZ_ASM_Client_Broken_Crit

  - KRZ_ASM_BGProcess_Crit
- Capacity
  - KRZ_ASM_Disk_Space_Crit
  - KRZ_ASM_Disk_Space_Warn
  - KRZ_ASM_Disk_Unknown_Warn
  - KRZ_ASM_DiskGroup_Space_Crit
  - KRZ_ASM_DiskGroup_Space_Warn
  - KRZ_ASM_DiskGroup_Broken_Crit
  - KRZ_ASM_DiskGroup_Redun_Crit
  - KRZ_ASM_DiskGroup_Redun_Warn
- Configuration
  - Not applicable
- IO Statistics
  - KRZ_ASM_DiskIO_Crit
  - KRZ_ASM_DiskGroupIO_Crit

Data Guard (DG) subnode
- Data Guard
  - Not applicable
- Alert Log
  - Not applicable
- Configuration
  - KRZ_DG_Disk_Space_Warn
  - KRZ_DG_Disk_Space_Crit
- Customized SQLs
  - Not applicable
- Redo Apply
  - KRZ_DG_Redo_Apply_Process_Crit
- SQL Apply
  - KRZ_DG_SQL_Apply_Process_Crit
- Transport
  - Not applicable

Situation descriptions

Each situation description provides information about the situation that you can use to monitor the condition of systems in your network.

The situation descriptions provide the following information:

Description
Information about the conditions that the situation tests.

Formula
Syntax that contains one or more logical expressions describing the conditions for the situation to monitor.

Distribution
Whether the situation is automatically distributed to instances of the agent or is available for manual distribution.

Run at startup
Whether the situation starts monitoring when the agent starts.

Sampling interval
Number of seconds that elapse between one sample of data that the monitoring agent collects for the server and the next sample.

Situation persistence
Whether the conditions specified in the situation evaluate to "true" for the defined number of occurrences in a row before the situation is raised. The default of one means that no persistence-checking takes place.

Severity
Severity of the predefined events: Warning, Informational, or Critical.

Clearing conditions
Controls when a true situation closes: after a period of time, when another situation is true, or whichever occurs first if both are selected.

Oracle Database Extended Navigator item

No predefined situations are included for this Navigator item.

Net Service Connection Navigator item

The situation descriptions are organized by the Navigator item to which the situations are relevant.

KRZ_TNS_Conn_Inactive_Crit situation

Description
TNS database connection is in inactive status.

The situation is evaluated for each distinct value of the TNSFILENAM attribute.

Formula

```
*IF *VALUE KRZ_AGENT_REMOTE_CONNECTION.Status *EQ 'Inactive'
```

See “Attributes in each attribute group” on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_Listener_Inactive_Crit situation

Description
Listener is in inactive status.

The situation is evaluated for each distinct value of the LSNRFILE attribute.

Formula

```
*IF *VALUE KRZ_AGENT_LISTENER.Status *EQ 'Inactive'
```

See “Attributes in each attribute group” on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

TakeAction Result Navigator item

No predefined situations are included for this Navigator item.

Database subnode

The situation descriptions are organized by the Navigator item to which the situations are relevant.

Database Navigator item

No predefined situations are included for this Navigator item.

Alert Log Navigator item

No predefined situations are included for this Navigator item.

Archive Navigator item

KRZ_RDB_Recovery_Space_Warn situation

Description
The free space in the flash recovery area is low.

The situation is evaluated for each distinct value of the NAME attribute.

Formula

```
*IF *VALUE KRZ_RDB_RECOVERY_FILE_DEST.FREEPCT *LT 40.00 *AND *VALUE
KRZ_RDB_RECOVERY_FILE_DEST.FREEPCT *GE 20.00
```

See “Attributes in each attribute group” on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
2 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_Recovery_Space_Crit situation

Description
The free space in the flash recovery area is low.

The situation is evaluated for each distinct value of the NAME attribute.

Formula

```
*IF *VALUE  KRZ_RDB_RECOVERY_FILE_DEST.FREEPCT *LT 20.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
2 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

Automatic Storage Management Navigator item

KRZ_RDB_ASM_Disk_Unknown_Warn situation

Description
The state of the ASM disk is unknown.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula

```
*IF *VALUE KRZ_RDB_ASM_DISK.Disk_State *EQ 'UNKNOWN'
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_ASM_DiskGrp_Space_Crit situation

Description
The percentage of free disk group space is no higher than 20%.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula

```
*IF *VALUE KRZ_RDB_ASM_DISKGROUP.Free_Percent *LE 20.00 *AND *VALUE
KRZ_RDB_ASM_DISKGROUP.Free_Percent *GE 0
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_ASM_DiskGrp_Space_Warn situation

Description
The percentage of free disk group space is lower than 40%.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula

```
*IF *VALUE KRZ_RDB_ASM_DISKGROUP.Free_Percent *LT 40.00 *AND *VALUE
KRZ_RDB_ASM_DISKGROUP.Free_Percent *GT 20.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_ASM_DiskGrp_Break_Crit situation

Description
The database instance lost connection with the ASM disk group.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_RDB_ASM_DISKGROUP.State *EQ 'BROKEN'
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is automatically distributed to instances of this agent.

Run at startup
Yes

Sampling interval
2 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_ASM_DiskGrp_Redun_Crit situation

Description
No more than 10% of disk group space for redundancy is free.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_RDB_ASM_DISKGROUP.Usable_Percent *LE 10.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_ASM_DiskGrp_Redun_Warn situation

Description
No more than 20% of disk group space for redundancy is free.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_RDB_ASM_DISKGROUP.Usable_Percent *LE 20.00 *AND *VALUE
KRZ_RDB_ASM_DISKGROUP.Usable_Percent *GT 10.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_ASM_DiskIO_Crit situation

Description
The response time of the ASM disk is longer than 15 ms.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_RDB_ASM_DISKIOSTAT.Response_Time_MS *GT 15.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_ASM_DiskGroupIO_Crit situation

Description
The response time of the ASM disk group is longer than 15 ms.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_RDB_ASM_DISKGROUPIOSTAT.Response_Time_MS *GT 15.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

Cache Navigator item

KRZ_RDB_Dict_Cache_Miss_Crit situation

Description
The dictionary cache misses percentage is higher than 5%.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_RDB_DICTIONARY_CACHE_DETAIL.Miss_Request_Percent *GT 5
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
30 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_Dict_Cache_Hit_Crit situation

Description
The dictionary cache hits percentage is lower than 95%.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_RDB_DICTIONARY_CACHE_RATIO.Dictionary_Cache_Hit_Ratio *LT 95.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
30 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_Buf_Cache_Hit_Crit situation

Description
The buffer cache hits percentage is lower than 95%.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_RDB_BUFFER_CACHE_RATIO.Buffer_Cache_Hit_Ratio *LT 95.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
30 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_Lib_Cache_Hit_Crit situation

Description
The library cache hits percentage is lower than 95%.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_RDB_LIBRARY_CACHE_RATIO.PIN_Hits_Ratio *LT 95
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
30 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_Lib_Cache_Reload_Crit situation

Description
The percentage of library cache first pins is lower than 99%.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_RDB_LIBRARY_CACHE_RATIO.First_PIN_Ratio *LT 99
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
30 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

Configuration Navigator item

No predefined situations are included for this Navigator item.

Contention Navigator item

KRZ_RDB_Latch_ImmHitRatio_Warn situation

Description
The latch hit percentage in no-wait mode is lower than 99%.

The situation is evaluated for each distinct value of the INST_ID attribute.

Formula

```
*IF *VALUE KRZ_RDB_LATCH_STATISTICS.Immediate_Hit_Ratio *LT 99.00 *AND *VALUE
KRZ_RDB_LATCH_STATISTICS.Immediate_Hit_Ratio *GE 0.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
30 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_Latch_WTWHitRatio_Warn situation

Description
Latch hit percentage in willing-to-wait mode is lower than 99%.

The situation is evaluated for each distinct value of the INST_ID attribute.

Formula

```
*IF *VALUE KRZ_RDB_LATCH_STATISTICS.Willing_To_Wait_Hit_Ratio *LT 99.00 *AND
*VALUE KRZ_RDB_LATCH_STATISTICS.Willing_To_Wait_Hit_Ratio *GE 0.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
30 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

Customized SQLs Navigator item

No predefined situations are included for this Navigator item.

Database Navigator item

KRZ_RDB_Resource_Consume_Crit situation

Description
Percentage of resources consumed is equal or higher than 80%.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_RDB_RESOURCE_LIMITATION.Current_Utilization_Ratio *GE 80.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
30 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_Resource_Consume_Warn situation

Description
Percentage of resources consumed is higher than 50%.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_RDB_RESOURCE_LIMITATION.Current_Utilization_Ratio *GT 50.00 *AND
*VALUE KRZ_RDB_RESOURCE_LIMITATION.Current_Utilization_Ratio *LT 80
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
30 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_DB_Wait_Time_Warn situation

Description
The percentage of the Database Wait Time is higher than 80%.

The situation is evaluated for each distinct value of the STARTTM attribute.

Formula
```
*IF *VALUE KRZ_RDB_SYS_METRIC_GROWTH_PERCENT.Current_Value *GT 80.00 *AND *VALUE
KRZ_RDB_SYS_METRIC_GROWTH_PERCENT.Metric_Name *EQ 'Database Wait Time Ratio'
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
30 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_Disk_Space_Warn situation

Description
The disk space usage of the monitored local Oracle instance

The situation is evaluated for each distinct value of the INSTNAME attribute.

Formula
```
*IF *VALUE KRZ_RDB_DISK_SPACE.Percentage_Free  *LE 20.00 *AND *VALUE
KRZ_RDB_DISK_SPACE.Percentage_Free *GT 10.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is automatically distributed to instances of this agent.

Run at startup
Yes

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_Disk_Space_Crit situation

Description
The disk space usage of the monitored local Oracle instance

The situation is evaluated for each distinct value of the INSTNAME attribute.

Formula

```
*IF *VALUE KRZ_RDB_DISK_SPACE.Percentage_Free  *LE 10.00 *AND *VALUE
KRZ_RDB_DISK_SPACE.Percentage_Free *GE 0.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is automatically distributed to instances of this agent.

Run at startup
Yes

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

Instance Navigator item

KRZ_RDB_Active_Inst_Warn situation

Description
The activity percentage of all instances is lower than 80%.

The situation is evaluated for each distinct value of the DBNAME attribute.

Formula

```
*IF *VALUE KRZ_RDB_INSTANCES_ACTIVE_RATIO.Active_Ratio *LT 80 *AND *VALUE
KRZ_RDB_INSTANCES_ACTIVE_RATIO.Active_Ratio *GE 50
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_Active_Inst_Crit situation

Description
The activity percentage of all instances is lower than 50%.

The situation is evaluated for each distinct value of the DBNAME attribute.

Formula
```
*IF *VALUE KRZ_RDB_INSTANCES_ACTIVE_RATIO.Active_Ratio *LT 50
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is automatically distributed to instances of this agent.

Run at startup
Yes

Sampling interval
2 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_Inst_InActive_Crit situation

Description
The status of the monitored Oracle instance is inactive.

The situation is evaluated for each distinct value of the INSTNUM attribute.

Formula
```
*IF *VALUE KRZ_RDB_ACTIVE_INSTANCE.Status *EQ 'INACTIVE'
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is automatically distributed to instances of this agent.

Run at startup
Yes

Sampling interval
2 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

Memory Navigator item

KRZ_RDB_SGA_Total_Free_Crit situation

Description
The percentage of free SGA memory is lower than 15%.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_RDB_SGA_OVERVIEW.Free_SGA_Percent *LT 15
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
30 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_SGA_Shared_Free_Crit situation

Description
The percentage of the free shared pool is lower than 15%.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_RDB_SGA_OVERVIEW.Free_Shared_Pool_Percent *LT 15
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
30 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

Process Navigator item

KRZ_RDB_BGProcess_Crit situation

Description
The background process is stopped.

The situation is evaluated for each distinct value of the PNAME attribute.

Formula

```
*IF (*VALUE KRZ_RDB_BGPROCESS_STATS.Process_Name *EQ 'DBW' *AND *VALUE
KRZ_RDB_BGPROCESS_STATS.Process_Count *EQ 0) *OR  (*VALUE
KRZ_RDB_BGPROCESS_STATS.Process_Name *EQ 'LGWR' *AND *VALUE
KRZ_RDB_BGPROCESS_STATS.Process_Count *EQ 0) *OR  (*VALUE
KRZ_RDB_BGPROCESS_STATS.Process_Name *EQ 'SMON' *AND *VALUE
KRZ_RDB_BGPROCESS_STATS.Process_Count *EQ 0) *OR (*VALUE
KRZ_RDB_BGPROCESS_STATS.Process_Name *EQ 'PMON' *AND *VALUE
KRZ_RDB_BGPROCESS_STATS.Process_Count *EQ 0)
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

Real Application Clusters Navigator item

KRZ_RDB_GCS_CR_Latency_Warn situation

Description
The latency of the GCS is longer than 15 ms.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula

```
*IF *VALUE KRZ_RDB_GCS_CR_LATENCY.Avg_CR_Block_Served_Time_ms *GT 15
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_GCS_CR_Receive_Warn situation

Description
The receive time of consistent read blocks is longer than 15 ms.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula

```
*IF *VALUE KRZ_RDB_GCS_CR_LATENCY.Avg_CR_Block_Received_ms *GT 15
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_GCS_BLK_Rec_Warn situation

Description
The average receive time of current block is longer than 20 ms.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula

```
*IF *VALUE KRZ_RDB_GCS_CUR_BLOCK.Avg_Current_Block_Receive_Time_ms *GT 20
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_GCS_BLK_Lat_Warn situation

Description
The average service time of current block is longer than 20 ms.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula

```
*IF *VALUE KRZ_RDB_GCS_CUR_BLOCK.Avg_Current_Block_Served_Time_ms *GT 20
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_GCS_Block_Lost_Warn situation

Description
The percentage of lost blocks in the GCS is higher than 1%.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula

```
*IF *VALUE KRZ_RDB_GCS_BLOCK_LOST.Lost_Ratio  *GT 1
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_GES_Latency_Warn situation

Description
The latency of the GES is longer than 20 ms.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_RDB_GES_LATENCY.Avg_Latency_time_ms *GT 20
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

Session Navigator item

No predefined situations are included for this Navigator item.

Tablespace Navigator item

KRZ_RDB_TS_Offline_Warn situation

Description
The status of the table space is offline.

The situation is evaluated for each distinct value of the TSNAME attribute.

Formula
```
*IF *VALUE KRZ_RDB_TABLESPACE_OVERVIEW.Tablespace_Status *EQ 'OFFLINE'
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_Segment_PCIFree_Crit situation

Description
Less than 10% of all the extents allocated to segments are free.

The situation is evaluated for each distinct value of the OWNER attribute.

Formula

```
*IF *VALUE KRZ_RDB_SEGMENT_ALLOCATION.Percentage_Free_Extents *LT 10.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
1 hour

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_Segment_ExtFree_Crit situation

Description
Less than 100 extents allocated to segments are free.

The situation is evaluated for each distinct value of the OWNER attribute.

Formula

```
*IF *VALUE KRZ_RDB_SEGMENT_ALLOCATION.Free_Extents *LT 100.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
1 hour

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_TSTemp_Free_Crit situation

Description
No more than 20% of temporary table space is free.

The situation is evaluated for each distinct value of the TSNAME attribute.

Formula

```
*IF *VALUE KRZ_RDB_TABLESPACETEMP_USAGE.Percentage_Free *LE 20.00 *AND *VALUE
KRZ_RDB_TABLESPACETEMP_USAGE.Percentage_Free *GE 0
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
1 hour

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_TSTemp_Free_Warn situation

Description
Less than 40% of temporary table space is free.

The situation is evaluated for each distinct value of the TSNAME attribute.

Formula

```
*IF *VALUE KRZ_RDB_TABLESPACETEMP_USAGE.Percentage_Free *LT 40.00 *AND *VALUE
KRZ_RDB_TABLESPACETEMP_USAGE.Percentage_Free *GT 20.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
1 hour

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_TSNormal_Free_Crit situation

Description
No more than 20% of non-temporary table space is free.

The situation is evaluated for each distinct value of the TNAME attribute.

Formula

```
*IF *VALUE KRZ_RDB_TABLESPACENORMAL_USAGE.Percentage_Free_To_Maximum *LE 20.00
*AND *VALUE KRZ_RDB_TABLESPACENORMAL_USAGE.Percentage_Free_To_Maximum *GE 0
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
30 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_TSNormal_Free_Warn situation

Description
Less than 40% of non-temporary table space is free.

The situation is evaluated for each distinct value of the TNAME attribute.

Formula

```
*IF *VALUE KRZ_RDB_TABLESPACENORMAL_USAGE.Percentage_Free_To_Maximum *LT 40.00
*AND *VALUE KRZ_RDB_TABLESPACENORMAL_USAGE.Percentage_Free_To_Maximum *GT 20.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
30 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_DataFile_Offline_Warn situation

Description
An indication that a data file is in the offline status.

The situation is evaluated for each distinct value of the FNAME attribute.

Formula
```
*IF *VALUE KRZ_RDB_DATAFILE_OVERVIEW.Online_Status *EQ 'OFFLINE'
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_DataFile_PCIFree_Warn situation

Description
More than 85% of the data files are defined.

The situation is evaluated for each distinct value of the DBINSTNAME attribute.

Formula
```
*IF *VALUE KRZ_RDB_DATAFILE_COUNT.Percentage_Total_Files_Defined *GT 85
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
1 hour

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_RDB_Object_Invalid_Warn situation

Description
An invalid object exists.

The situation is evaluated for each distinct value of the OWNER attribute.

Formula
```
*IF *VALUE KRZ_RDB_OBJECTS.Status *EQ 'INVALID'
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

Top SQL Navigator item

No predefined situations are included for this Navigator item.

Undo Navigator item

No predefined situations are included for this Navigator item.

ASM subnode

The situation descriptions are organized by the Navigator item to which the situations are relevant.

ASM Navigator item

No predefined situations are included for this Navigator item.

Alert Log Navigator item

No predefined situations are included for this Navigator item.

Availability Navigator item

KRZ_ASM_Instance_Offline_Crit situation

Description
The ASM instance is offline.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_ASM_INSTANCE.Status *EQ 'OFFLINE'
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is automatically distributed to instances of this agent.

Run at startup
Yes

Sampling interval
2 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_ASM_Client_Broken_Crit situation

Description
Connection with database instance client terminated abnormally.

The situation is evaluated for each distinct value of the DBINSTNAME attribute.

Formula
```
*IF *VALUE KRZ_ASM_CLIENT.Status *EQ 'BROKEN'
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is automatically distributed to instances of this agent.

Run at startup
Yes

Sampling interval
2 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_ASM_BGProcess_Crit situation

Description
The background process is stopped.

The situation is evaluated for each distinct value of the PNAME attribute.

Formula

```
*IF (*VALUE KRZ_ASM_BGPROCESS_STATS.Process_Name *EQ 'DBW' *AND *VALUE
KRZ_ASM_BGPROCESS_STATS.Process_Count *EQ 0) *OR  (*VALUE
KRZ_ASM_BGPROCESS_STATS.Process_Name *EQ 'LGWR' *AND *VALUE
KRZ_ASM_BGPROCESS_STATS.Process_Count *EQ 0) *OR  (*VALUE
KRZ_ASM_BGPROCESS_STATS.Process_Name *EQ 'SMON' *AND *VALUE
KRZ_ASM_BGPROCESS_STATS.Process_Count *EQ 0) *OR (*VALUE
KRZ_ASM_BGPROCESS_STATS.Process_Name *EQ 'PMON' *AND *VALUE
KRZ_ASM_BGPROCESS_STATS.Process_Count *EQ 0)
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

Capacity Navigator item

KRZ_ASM_Disk_Space_Crit situation

Description
No more than 20% of ASM disk space is free.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula

```
*IF *VALUE KRZ_ASM_DISK.Group_Number *GT 0 *AND *VALUE KRZ_ASM_DISK.Free_Percent
*LE 20.00 *AND *VALUE KRZ_ASM_DISK.Free_Percent *GE 0
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_ASM_Disk_Space_Warn situation

Description
Less than 40% of ASM disk space is free.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_ASM_DISK.Group_Number *GT 0 *AND *VALUE KRZ_ASM_DISK.Free_Percent
*LT 40.00 *AND *VALUE KRZ_ASM_DISK.Free_Percent *GT 20.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_ASM_Disk_Unknown_Warn situation

Description
The state of the ASM disk is unknown.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_ASM_DISK.Disk_State *EQ 'UNKNOWN'
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_ASM_DiskGroup_Space_Crit situation

Description
No more than 20% of ASM disk group space is free.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_ASM_DISKGROUP.Free_Percent *LE 20.00 *AND *VALUE
KRZ_ASM_DISKGROUP.Free_Percent *GE 0
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_ASM_DiskGroup_Space_Warn situation

Description
Less than 40% of ASM disk group space is free.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_ASM_DISKGROUP.Free_Percent *LT 40.00 *AND *VALUE
KRZ_ASM_DISKGROUP.Free_Percent *GT 20.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_ASM_DiskGroup_Broken_Crit situation

Description
The database instance lost connection with the ASM disk group.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_ASM_DISKGROUP.State *EQ 'BROKEN'
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is automatically distributed to instances of this agent.

Run at startup
Yes

Sampling interval
2 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_ASM_DiskGroup_Redun_Crit situation

Description
No more than 10% of ASM disk group space for redundancy is free.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_ASM_DISKGROUP.Usable_Percent *LE 10.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_ASM_DiskGroup_Redun_Warn situation

Description
Less than 20% of ASM disk group space for redundancy is free.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_ASM_DISKGROUP.Usable_Percent *LT 20.00 *AND *VALUE
KRZ_ASM_DISKGROUP.Usable_Percent *GT 10.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

Configuration Navigator item

No predefined situations are included for this Navigator item.

IO Statistics Navigator item

KRZ_ASM_DiskIO_Crit situation

Description
The response time of the ASM disk is longer than 15 ms.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_ASM_DISKIOSTAT.Response_Time_MS *GT 15.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

KRZ_ASM_DiskGroupIO_Crit situation

Description
The response time of the ASM disk group is longer than 15 ms.

The situation is evaluated for each distinct value of the INSTID attribute.

Formula
```
*IF *VALUE KRZ_ASM_DISKGROUPIOSTAT.Response_Time_ms *GT 15.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is available for distribution.

Run at startup
No

Sampling interval
15 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

Data Guard subnode

The situation descriptions are organized by the Navigator item to which the situations are relevant.

Data Guard Navigator item

No predefined situations are included for this Navigator item.

Alert Log Navigator item

No predefined situations are included for this Navigator item.

Configuration Navigator item

KRZ_DG_Disk_Space_Warn situation

Description
The disk space usage for the monitored local Oracle instance.

The situation is evaluated for each distinct value of the INSTNAME attribute.

Formula

```
*IF *VALUE KRZ_DG_DISK_SPACE.Percentage_Free  *LE 20.00 *AND *VALUE
KRZ_DG_DISK_SPACE.Percentage_Free *GT 10.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is automatically distributed to instances of this agent.

Run at startup
Yes

Sampling interval
30 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Warning

Clearing conditions
The situation clears when the condition becomes false.

KRZ_DG_Disk_Space_Crit situation

Description
The disk space usage for the monitored local Oracle instance.

The situation is evaluated for each distinct value of the INSTNAME attribute.

Formula

```
*IF *VALUE KRZ_DG_DISK_SPACE.Percentage_Free  *LE 10.00 *AND *VALUE
KRZ_DG_DISK_SPACE.Percentage_Free *GE 0.00
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is automatically distributed to instances of this agent.

Run at startup
Yes

Sampling interval
30 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

Customized SQLs Navigator item

No predefined situations are included for this Navigator item.

Redo Apply Navigator item

KRZ_DG_Redo_Apply_Process_Crit situation

Description

The process of Redo Apply is stopped.

The situation is evaluated for each distinct value of the DBNAME attribute.

Formula

```
*IF (*VALUE KRZ_DG_MANAGED_STANDBY_STAT.Database_Role *EQ 'PHYSICAL STANDBY' *AND
*VALUE KRZ_DG_MANAGED_STANDBY_STAT.RFS_Count *EQ 0) *OR  (*VALUE
KRZ_DG_MANAGED_STANDBY_STAT.Database_Role *EQ 'PHYSICAL STANDBY' *AND *VALUE
KRZ_DG_MANAGED_STANDBY_STAT.Archiver_Count *EQ 0) *OR  (*VALUE
KRZ_DG_MANAGED_STANDBY_STAT.Database_Role *EQ 'PHYSICAL STANDBY' *AND *VALUE
KRZ_DG_MANAGED_STANDBY_STAT.MRP_Count *EQ 0)
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution

This situation is automatically distributed to instances of this agent.

Run at startup

Yes

Sampling interval

5 minutes

Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions

Critical

Clearing conditions

The situation clears when the condition becomes false.

SQL Apply Navigator item

KRZ_DG_SQL_Apply_Process_Crit situation

Description

The process of the SQL Apply is stopped.

The situation is evaluated for each distinct value of the DBNAME attribute.

Formula

```
*IF (*VALUE KRZ_DG_LOGSTDBY_PROCESS_STAT.Database_Role *EQ 'LOGICAL STANDBY' *AND
*VALUE KRZ_DG_LOGSTDBY_PROCESS_STAT.Applier_Count *EQ 0) *OR  (*VALUE
KRZ_DG_LOGSTDBY_PROCESS_STAT.Database_Role *EQ 'LOGICAL STANDBY' *AND *VALUE
KRZ_DG_LOGSTDBY_PROCESS_STAT.Analyzer_Count *EQ 0) *OR  (*VALUE
KRZ_DG_LOGSTDBY_PROCESS_STAT.Database_Role *EQ 'LOGICAL STANDBY' *AND *VALUE
KRZ_DG_LOGSTDBY_PROCESS_STAT.Reader_Count *EQ 0) *OR  (*VALUE
KRZ_DG_LOGSTDBY_PROCESS_STAT.Database_Role *EQ 'LOGICAL STANDBY' *AND *VALUE
KRZ_DG_LOGSTDBY_PROCESS_STAT.Builder_Count *EQ 0) *OR  (*VALUE
KRZ_DG_LOGSTDBY_PROCESS_STAT.Database_Role *EQ 'LOGICAL STANDBY' *AND *VALUE
KRZ_DG_LOGSTDBY_PROCESS_STAT.Preparer_Count *EQ 0) *OR  (*VALUE
KRZ_DG_LOGSTDBY_PROCESS_STAT.Database_Role *EQ 'LOGICAL STANDBY' *AND *VALUE
KRZ_DG_LOGSTDBY_PROCESS_STAT.Coordinator_Count *EQ 0)
```

See "Attributes in each attribute group" on page 73 for descriptions of the attributes in this formula.

Distribution
This situation is automatically distributed to instances of this agent.

Run at startup
Yes

Sampling interval
5 minutes

Situation persistence
The number of times the conditions of the situation must occur for the situation to be true is 1.

Error conditions
Critical

Clearing conditions
The situation clears when the condition becomes false.

Transport Navigator item

No predefined situations are included for this Navigator item.

Chapter 6. Take Action commands reference

Take Action commands can be run from the portal client or included in a situation or a policy.

About Take Action commands

When included in a situation, the command runs when the situation becomes true. A Take Action command in a situation is also referred to as *reflex automation*. When you enable a Take Action command in a situation, you automate a response to system conditions. For example, you can use a Take Action command to send a command to restart a process on the managed system or to send a text message to a cell phone.

In advanced automation, policies are used to take actions, schedule work, and automate manual tasks. A policy comprises a series of automated steps called activities that are connected to create a workflow. After an activity is completed, the Tivoli Enterprise Portal receives return-code feedback, and advanced automation logic responds with subsequent activities that are prescribed by the feedback.

A basic Take Action command shows the return code of the operation in a message box that is displayed after the action is completed or in a log file. After you close this window, no further information is available for this action.

Additional information about Take Action commands

For more information about working with Take Action commands, see "Take Action commands" in the *Tivoli Enterprise Portal User's Guide*.

For a list of the Take Action commands for this monitoring agent and a description of each command, see "Predefined Take Action commands" and the information for each individual command.

Predefined Take Action commands

Not all agents have predefined Take Action commands. But you can create Take Action commands for any agent.

This monitoring agent contains the following Take Action commands:

- ASM_Execute_PLSQL
- ASM_Execute_SELECT
- DG_Execute_PLSQL
- DG_Execute_SELECT
- RDB_Execute_PLSQL
- RDB_Execute_SELECT

Take Action command descriptions

Each Take Action command description provides information you can use to decide whether to run the Take Action command or whether to include the Take Action command in a situation or a policy.

The descriptions of the Take Action commands provide the following information:

Description
: Actions the command performs on the system to which it is sent, and the permissions required for the Take Action command to function.

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Return codes

Information that the Take Action command returns.

ASM_Execute_PLSQL action

Run the input PL/SQL statement. If the command succeeds, the Action App Return Code column displays the return code as 0. If the command fails, a detailed error message is displayed in the Action Results column.

System command

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
ASM_EXECUTE_PLSQL \

   [SQL]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
ASM_EXECUTE_PLSQL \

[&{SQL}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
ASM_EXECUTE_PLSQL \

[&WaitOnSituation:SQL]
```

Command arguments

- **Name:** SQL
  - **Description:** The SQL will be excuted.
  - **Default:** ""

Destination systems

_EnDDESTINATIONS_NONE_OR_LIST_EnD

Return codes

- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: AIX® (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries®), Linux (64-bit zSeries), Linux (64-bit PowerPC®), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1001
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1002
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 8
  - Return Code Type: TIMED_OUT

- Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
- Message ID: KRZ1003
- Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!

- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1004
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ9000I
  - Message: OK, The command succeeded.

ASM_Execute_SELECT action

Run the input select SQL statement. If the command succeeds, the result of the SELECT SQL statement is displayed in the Action Results column. If the command fails, a detailed error message is displayed in the Action Results column.

System command

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
ASM_EXECUTE_SELECT \

   [SQL]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
ASM_EXECUTE_SELECT \

[&{SQL}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
ASM_EXECUTE_SELECT \

[&WaitOnSituation:SQL]
```

Command arguments

- **Name:** SQL
  - **Description:** The SQL will be excuted.
  - **Default:** ""

Destination systems

_EnDDESTINATIONS_NONE_OR_LIST_EnD

Return codes

- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1001
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1002
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1004
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ9000I
  - Message: OK, The command succeeded.

DG_Execute_PLSQL action

Run the input PL/SQL statement. If the command succeeds, the Action App Return Code column displays the return code as 0. If the command fails, a detailed error message is displayed in the Action Results column.

System command

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
DG_EXECUTE_PLSQL \

   [SQL]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
DG_EXECUTE_PLSQL \

[&{SQL}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
DG_EXECUTE_PLSQL \

[&WaitOnSituation:SQL]
```

Command arguments

- **Name:** SQL
  - **Description:** The SQL will be excuted.
  - **Default:** ""

Destination systems

_EnDDESTINATIONS_NONE_OR_LIST_EnD

Return codes

- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1001
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1002
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY

- Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
- Message ID: KRZ1004
- Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!

• Return Code: 0
- Return Code Type: OK
- Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
- Message ID: KRZ9000I
- Message: OK, The command succeeded.

DG_Execute_SELECT action

Run the input select SQL statement. If the command succeeds, the result of the SELECT SQL statement is displayed in the Action Results column. If the command fails, a detailed error message is displayed in the Action Results column.

System command

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
DG_EXECUTE_SELECT \

   [SQL]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
DG_EXECUTE_SELECT \

[&{SQL}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
DG_EXECUTE_SELECT \

[&WaitOnSituation:SQL]
```

Command arguments

• **Name:** SQL
- **Description:** The SQL will be excuted.
- **Default:** ""

Destination systems

_EnDDESTINATIONS_NONE_OR_LIST_EnD

Return codes

• Return Code: 1
- Return Code Type: NOT_APPLICABLE
- Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
- Message ID: KRZ1001

  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1002
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1004
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ9000I
  - Message: OK, The command succeeded.

RDB_Execute_PLSQL action

Run the input PL/SQL statement. If the command succeeds, the Action App Return Code column displays the return code as 0. If the command fails, a detailed error message is displayed in the Action Results column.

System command

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
RDB_EXECUTE_PLSQL \

   [SQL]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
RDB_EXECUTE_PLSQL \

[&{SQL}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
RDB_EXECUTE_PLSQL \

[&WaitOnSituation:SQL]
```

Command arguments

- **Name:** SQL
  - **Description:** The SQL will be excuted.
  - **Default:** ""

Destination systems

_EnDDESTINATIONS_NONE_OR_LIST_EnD

Return codes

- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1001
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1002
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1004
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK

- Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
- Message ID: KRZ9000I
- Message: OK, The command succeeded.

RDB_Execute_SELECT action

Run the input SELECT SQL statement. If the command succeeds, the result of the SELECT SQL statement is displayed in the Action Results column. If the command fails, a detailed error message is displayed in the Action Results column.

System command

To include the Take Action command in a situation or workflow policy, use the following syntax for the system command:

```
RDB_EXECUTE_SELECT \

   [SQL]
```

You can use attribute substitution to supply the Take Action command arguments from the situation, for example:

```
RDB_EXECUTE_SELECT \

[&{SQL}]
```

You can also use attribute substitution in a workflow policy though the format is slightly different:

```
RDB_EXECUTE_SELECT \

[&WaitOnSituation:SQL]
```

Command arguments

- **Name:** SQL
  - **Description:** The SQL will be excuted.
  - **Default:** ""

Destination systems

_EnDDESTINATIONS_NONE_OR_LIST_EnD

Return codes

- Return Code: 1
  - Return Code Type: NOT_APPLICABLE
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1001
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 2
  - Return Code Type: GENERAL_ERROR
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1002

  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 8
  - Return Code Type: TIMED_OUT
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1003
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 12
  - Return Code Type: INSUFFICIENT_USER_AUTHORITY
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ1004
  - Message: WARNING::NO MESSAGE FOUND FOR THIS RETURN CODE!!!!!
- Return Code: 0
  - Return Code Type: OK
  - Operating systems: AIX (32-bit), AIX (64-bit), HP-UX (64-bit Itanium), Linux 2.6 (Intel), Linux (31-bit zSeries), Linux (64-bit zSeries), Linux (64-bit PowerPC), Linux (64-bit Itanium), Linux (64-bit x86), Solaris (32-bit SPARC), Solaris (64-bit SPARC), Solaris (64-bit x86), Windows, Windows (64-bit)
  - Message ID: KRZ9000I
  - Message: OK, The command succeeded.

Chapter 7. Policies reference

Policies are used as an advanced automation technique for implementing more complex workflow strategies than you can create through simple automation. All agents do not provide predefined policies, but you can create policies for any agent.

A *policy* is a set of automated system processes that can take actions, schedule work for users, or automate manual tasks. You use the Workflow Editor to design policies. You control the order in which the policy executes a series of automated steps, which are also called *activities*. Policies are connected to create a workflow. After an activity is completed, the Tivoli Enterprise Portal receives return-code feedback, and advanced automation logic responds with subsequent activities prescribed by the feedback.

For more information about working with policies, see "Automation with policies" in the *Tivoli Enterprise Portal User's Guide*.

For information about using the Workflow Editor, see the *IBM Tivoli Monitoring Administrator's Guide* or the Tivoli Enterprise Portal online help.

Predefined policies

Not all agents have predefined policies. But you can create policies for any agent.

The IBM Tivoli Composite Application Manager Extended Agent for Oracle Database does not provide predefined policies.

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Chapter 8. Troubleshooting

Problems can be related to IBM Tivoli Monitoring or the specific agent that you are using.

For general troubleshooting information, see the *IBM Tivoli Monitoring Troubleshooting Guide*. For other problem-solving options, see "Support information" on page 877.

You can resolve some problems by ensuring that your system matches the system requirements listed in the Prerequisites topic for the agent in the information center.

The following activities can help you find a solution to the problem you are having:

- "Gathering product information for IBM Software Support"
- "Using logging" on page 848
- "Consulting the lists of identified problems and workarounds" on page 848

Gathering product information for IBM Software Support

Before contacting IBM Software Support about a problem you are experiencing with this product, gather the information shown in Table 7.

Table 7. Information to gather before contacting IBM Software Support

Information type	Description
Log files	Collect trace log files from failing systems. Most logs are located in a logs subdirectory on the host computer. See "Principal trace log files" on page 849 for lists of all trace log files and their locations. For general information about the IBM Tivoli Monitoring environment, see the *Tivoli Enterprise Portal User's Guide*.
Oracle Database information	Version number and patch level
Operating system	Operating system version number and patch level
Messages	Messages and other information displayed on the screen
Version numbers for IBM Tivoli Monitoring	Version number of the following members of the monitoring environment: • IBM Tivoli Monitoring. Also provide the patch level, if available. • IBM Tivoli Composite Application Manager Extended Agent for Oracle Database
Screen captures	Screen captures of incorrect output, if any
(UNIX systems only) Core dump files	If the system stops on UNIX systems, collect the core dump file from the *install_dir*/bin directory, where *install_dir* is the directory where you installed the monitoring agent.

You can use the pdcollect tool to collect the most commonly used information from a system. This tool gathers log files, configuration information, version information, and other data. For more information about using this tool, see the "pdcollect tool" in the *IBM Tivoli Monitoring Troubleshooting Guide*.

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For information about working with IBM Software Support, see IBM Support Portal Service Requests and PMRs (http://www.ibm.com/support/entry/portal/Open_service_request/Software/Software_support_(general)).

Using logging

Logging is the primary troubleshooting feature in the Oracle Database Extended agent. *Logging* refers to the text messages and trace data that is generated by the Oracle Database Extended agent. Messages and trace data are sent to a file.

Trace data captures transient information about the current operating environment when a component or application fails to operate as designed. IBM Software Support personnel use the captured trace information to determine the source of an error or unexpected condition. See "Trace logging" for more information.

Consulting the lists of identified problems and workarounds

Known problems have been organized into types such as those in the following list to make them easier to locate:

- Installation and configuration
- General usage and operation
- Display of monitoring data
- Take Action commands

Information about symptoms and detailed workarounds for these types of problems is located in "Problems and workarounds" on page 859.

For general troubleshooting information, see the *IBM Tivoli Monitoring Troubleshooting Guide*.

Trace logging

Trace logs are used to capture information about the operating environment when component software fails to operate as designed.

The principal log type is the RAS (Reliability, Availability, and Serviceability) trace log. These logs are in the English language only. The RAS trace log mechanism is available for all components of IBM Tivoli Monitoring. Most logs are located in a logs subdirectory on the host computer. See the following information to learn how to configure and use trace logging:

- "Principal trace log files" on page 849
- "Examples: Using trace logs" on page 852
- "Setting RAS trace parameters by using the GUI" on page 854

Note: The documentation refers to the RAS facility in IBM Tivoli Monitoring as "RAS1."

IBM Software Support personnel use the information captured by trace logging to trace a problem to its source or to determine why an error occurred. All components in the IBM Tivoli Monitoring environment have a default tracing level. The tracing level can be changed on a per-component level to adjust the type of trace information collected, the degree of trace detail, the number of trace logs to be kept, and the amount of disk space used for tracing.

Overview of log file management

Knowing the naming conventions for log files helps you to find the files.

Agent log file naming conventions

Table 8 provides the names, locations, and descriptions of IBM Tivoli Monitoring general RAS1 log files. The log file names for the Oracle Database Extended agent adhere to the following naming convention:

- `hostname_rz_krzagent_HEXtimestamp-nn.log`
- `hostname_rz_krzclient_HEXtimestamp-nn.log`
- `hostname_rz_krzstart_HEXtimestamp-nn.log`

Where:

hostname
Host name of the computer where the monitoring component is running.

rz Two-character product code for Oracle Database Extended agent.

HEXtimestamp
Hexadecimal time stamp representing the time at which the program started.

nn Rolling log suffix.

These logs are in the following directory depending on the operating system that you are using:

- **Windows 32-bit:** *install_dir*\TMAITM6\logs
- **Windows 64-bit:** *install_dir*\TMAITM6_x64\logs
- **Linux:** *install_dir*/logs
- **UNIX:** *install_dir*/logs

The krzagent program is a binary copy of agent factory, which delivers requests from Tivoli Enterprise Monitoring Server to the krzclient program. The krzclient program is an agent factory custom provider that can connect multiple and different versions of Oracle databases. This program collects information from Oracle databases, and returns the information to the krzagent program when the krzagent program receives requests from Tivoli Enterprise Monitoring Server. The krzstart program initializes the environment, for example, sets the *PATH* variable and calls the krzclient program.

Note: Some operating systems, such as SUSE Linux 10, contain only the `krzstart` log file and the `krzagent` log file. The log for the krzclient program is in the `krzstart` log file, because the krzstart program uses the `execvp` system call to run the krzclient program. Some operating systems merge the logs of these two applications into one log file.

Principal trace log files

Trace log files are located on various systems.

Table 8 contains locations, file names, and descriptions of trace logs that can help determine the source of problems with agents.

Table 8. Trace log files for troubleshooting agents

System where log is located	File name and path	Description
On the Tivoli Enterprise Monitoring Server	• **Windows:** The file in the *install_dir*\InstallITM path • **UNIX:** The candle_installation.log file in the *install_dir*/logs path • **Linux:** The candle_installation.log file in the *install_dir*/logs path	Provides details about products that are installed. **Note:** Trace logging is enabled by default. A configuration step is not required to enable this tracing.

Table 8. Trace log files for troubleshooting agents (continued)

System where log is located	File name and path	Description
On the Tivoli Enterprise Monitoring Server	The `Warehouse_Configuration.log` file is in the following location on Windows systems: *install_dir*\InstallITM	Provides details about the configuration of data warehousing for historical reporting.
On the Tivoli Enterprise Monitoring Server	The name of the RAS log file is as follows: • **Windows:** *install_dir*\logs\ *hostname*_ms_*timestamp-nn*.log • **UNIX:** *install_dir*/logs/ *hostname*_ms_*timestamp-nn*.log • **Linux:** *install_dir*/logs/ *hostname*_ms_*timestamp-nn*.log **Note:** File names for RAS1 logs include a hexadecimal time stamp. Also on UNIX systems, a log with a decimal time stamp is provided: *hostname_productcode_timestamp*.log and *hostname_productcode_ timestamp*.pid nnnnn in the *install_dir*/logs path, where *nnnnn* is the process ID number.	Traces activity on the monitoring server.
On the Tivoli Enterprise Portal Server	The name of the RAS log file is as follows: • **Windows:** *install_dir*\logs\ *hostname* _cq_HEXtimestamp-nn.log • **UNIX:** *install_dir* /logs/*hostname*_cq_HEXtimestamp-nn.log • **Linux:** *install_dir* /logs/*hostname*_cq_HEXtimestamp-nn.log **Note:** File names for RAS1 logs include a hexadecimal time stamp. Also on UNIX systems, a log with a decimal time stamp is provided: *hostname_productcode_timestamp* .logand *hostname_productcode_ timestamp*.pid*nnnnn* in the *install_dir*/logs path, where *nnnnn* is the process ID number.	Traces activity on the portal server.
On the Tivoli Enterprise Portal Server	The `teps_odbc.log` file is located in the following path: • **Windows:** *install_dir*\InstallITM • **UNIX:** *install_dir*/logs • **Linux:** *install_dir*/logs	When you enable historical reporting, this log file traces the status of the warehouse proxy agent.

Table 8. Trace log files for troubleshooting agents (continued)

System where log is located	File name and path	Description
On the computer that hosts the monitoring agent	The RAS1 log files are as follows: • **Windows:** *hostname*_rz_*instance_name*_krzagent_HEXtimestamp-nn.log in the *install_dir*\tmaitm6\logs directory • **UNIX:** *hostname*_rz_*instance_name*_krzagent_HEXtimestamp-nn.log in the *install_dir*/logs directory • **Linux:** *hostname*_rz_*instance_name*_krzagent_HEXtimestamp-nn.log in the *install_dir*/logs directory These logs are in the following directories: • **Windows:** *install_dir*\tmaitm6\logs • **UNIX:** *install_dir*/logs • **Linux:** *install_dir*/logs On Linux systems, the following additional logs are provided: – *hostname*_rz_timestamp.log – *hostname*_rz_timestamp.pidnnnnn in the *install_dir*/logs path, where *nnnnn* is the process ID number	Traces activity of the monitoring agent.
On the computer that hosts the monitoring agent	The agent operations log files are as follows: *instance_hostname*RZ.LG0 is the current log created when the agent was started. *instance_hostname*_RZ.LG1 is the backup of the previous log. These logs are in the following directory depending on the operating system that you are using: • **Windows 32-bit:** *install_dir*\TMAITM6\logs • **Windows 64-bit:** *install_dir*\TMAITM6_x64\logs • **Linux:** *install_dir*/logs • **UNIX:** *install_dir*/logs	Shows whether the agent could connect to the monitoring server. Shows which situations are started and stopped, and shows other events while the agent is running. A new version of this file is generated every time the agent is restarted. IBM Tivoli Monitoring generates one backup copy of the *.LG0 file with the tag .LG1. View the .LG1 tag to learn the following details regarding the *previous* monitoring session: • Status of connectivity with the monitoring server • Situations that were running • The success or failure status of Take Action commands

Table 8. Trace log files for troubleshooting agents (continued)

System where log is located	File name and path	Description
Definitions of variables: • *timestamp* is a time stamp with a format that includes year (y), month (m), day (d), hour (h), and minute (m), as follows: **yyyymmdd hhmm** • *HEXtimestamp* is a hexadecimal representation of the time at which the process was started. • *install_dir* represents the directory path where you installed the IBM Tivoli Monitoring component. *install_dir* can represent a path on the computer that hosts the monitoring system, the monitoring agent, or the portal. • *instance* refers to the name of the database instance that you are monitoring. • *instance_name* refers to the name of the agent instance. • *hostname* refers to the name of the computer on which the IBM Tivoli Monitoringcomponent runs. • *nn* represents the circular sequence in which logs are rotated. this value includes a range from 1 - 5, by default. The first is always retained because it includes configuration parameters. • *productcode* specifies the product code, for example, um for Universal Agent or nt for Windows systems.		

For more information about the complete set of trace logs that are maintained on the monitoring server, see the *IBM Tivoli Monitoring Installation and Setup Guide*.

Examples: Using trace logs

You can open trace logs in a text editor to learn some basic facts about your IBM Tivoli Monitoring environment.

IBM Software Support applies specialized knowledge to analyze trace logs to determine the source of problems. The following examples are from the Tivoli Enterprise Monitoring Server log.

Example one

This excerpt shows the typical log for a failed connection between a monitoring agent and a monitoring server with the host name **server1a**:

```
(Thursday, August 11, 2005, 08:21:30-{94C}kdcl0cl.c,105,"KDCL0_ClientLookup") status=1c020006,
 "location server unavailable", ncs/KDC1_STC_SERVER_UNAVAILABLE
(Thursday, August 11, 2005, 08:21:35-{94C}kraarreg.cpp,1157,"LookupProxy") Unable to connect to
 broker at ip.pipe:: status=0, "success", ncs/KDC1_STC_OK
(Thursday, August 11, 2005, 08:21:35-{94C}kraarreg.cpp,1402,"FindProxyUsingLocalLookup") Unable
 to find running CMS on CT_CMSLIST <IP.PIPE:#server1a>
```

Example two

The following excerpts from the trace log *for the monitoring server* show the status of an agent, identified here as "Remote node." The name of the computer where the agent is running is **SERVER5B**:

```
(42C039F9.0000-6A4:kpxreqhb.cpp,649,"HeartbeatInserter") Remote node SERVER5B:RZ is ON-LINE.
. . .
(42C3079B.0000-6A4:kpxreqhb.cpp,644,"HeartbeatInserter") Remote node SERVER5B:RZ is OFF-LINE.
```

See the following key points about the preceding excerpts:

- The monitoring server appends the **RZ** product code to the server name to form a unique name (SERVER5B:RZ) for this instance of the IBM Tivoli Composite Application Manager Extended Agent for Oracle Database. By using this unique name, you can distinguish multiple monitoring products that might be running on **SERVER5B**.
- The log shows when the agent started (ON-LINE) and later stopped (OFF-LINE) in the environment.
- For the sake of brevity, an ellipsis (...) represents the series of trace log entries that were generated while the agent was running.
- Between the ON-LINE and OFF-LINE log entries, the agent was communicating with the monitoring server.

- The ON-LINE and OFF-LINE log entries are always available in the trace log. All trace levels that are described in "Setting RAS trace parameters by using the GUI" on page 854 provide these entries.

On Windows systems, you can use the following alternate method to view trace logs:

1. In the Windows **Start** menu, click **Program Files** > **IBM Tivoli Monitoring** > **Manage Tivoli Enterprise Monitoring Services**. The Manage Tivoli Enterprise Monitoring Services window is displayed.
2. Right-click a component and click **Advanced** > **View Trace Log** in the menu. For example, if you want to view the trace log of the IBM Tivoli Composite Application Manager Extended Agent for Oracle Database, right-click the name of that agent in the window. You can also use the viewer to access remote logs.

   Note: The viewer converts time stamps in the logs to a format that is easier to read.

Trace options

The two levels of tracing are component-level tracing and file-level tracing.

For instructions about how to set trace options, see "RAS trace parameters"

- component-level tracing

  To enable component-level tracing, use the following option for the RAS trace parameters:

  `(comp: component level)`

  where:

  component
  Name of the component for which you want to set the trace option. Use one of the following components defined for RAS1 log service:
  - krzalert: the Alert Log component
  - krzbasic: the basic functions component
  - krzcomm: the common connection component
  - krzmutex: the event and mutex component
  - krzora: the OCI(Oracle Call Interface) related functions component
  - krzxml: the XML component

  level Tracing severity level: all, debug, detail, or flow.

  For example, use the `(comp: krzalert all)` option to enable tracing on the krzalert component.

- file-level tracing

  To use file-level tracing, use the following option for the RAS trace parameters:

  `(unit: filename level)`

  Where:

  file name
  Name of the file for which you want to enable tracing.

  For example, use the `(unit: krzoranet all)` option to enable tracing on the source code files with names that begin with krzoranet. These files are used for Listener monitoring and Net Service monitoring.

RAS trace parameters

Pinpoint a problem by setting detailed tracing of individual components of the monitoring agent and modules

See “Overview of log file management” on page 848 to ensure that you understand log rolling and can reference the correct log files when you manage log file generation.

Setting RAS trace parameters by using the GUI

On Windows systems, you can use the graphical user interface to set trace options.

About this task

The IBM Tivoli Composite Application Manager Extended Agent for Oracle Database uses RAS1 tracing and generates the logs described in Table 8 on page 849. The default RAS1 trace level is ERROR.

Procedure

1. Open the Manage Tivoli Enterprise Monitoring Services window.
2. Select **Advanced** > **Edit Trace Parms**. The Tivoli Enterprise Monitoring Server Trace Parameters window is displayed.
3. Select a new trace setting in the pull-down menu in the **Enter RAS1 Filters** field or type a valid string.
   - General error tracing. KBB_RAS1=ERROR
   - Intensive error tracing. KBB_RAS1=ERROR (COMP:krzora ALL)

     See “Trace options” on page 853 for detailed information.
   - Maximum error tracing. KBB_RAS1=ERROR (COMP:krzora ALL)(COMP:krzalert ALL) (COMP:krzcomm ALL) (UNIT:kra ALL)

     Note: As this example shows, you can set multiple RAS tracing options in a single statement.

     See “Trace options” on page 853 for detailed information.
4. Modify the value for Maximum Log Size Per File (MB) to change the log file size (changes LIMIT value).
5. Modify the value for Maximum Number of Log Files Per Session to change the number of log files per startup of a program (changes COUNT value).
6. Modify the value for Maximum Number of Log Files Total to change the number of log files for all startups of a program (changes MAXFILES value).
7. Optional: Click Y (Yes) in the **KDC_DEBUGd Setting** menu to log information that can help you diagnose communications and connectivity problems between the monitoring agent and the monitoring server. The **KDC_DEBUG** setting and the **Maximum error tracing** setting can generate a large amount of trace logging. Use these settings only temporarily, while you are troubleshooting problems. Otherwise, the logs can occupy excessive amounts of hard disk space.
8. Click **OK**. You see a message reporting a restart of the monitoring agent so that your changes take effect.

What to do next

Monitor the size of the `logs` directory. Default behavior can generate a total of 45 - 60 MB for each agent that is running on a computer. For example, each database instance that you monitor can generate 45 - 60 MB of log data. See the "Procedure" section to learn how to adjust file size and numbers of log files to prevent logging activity from occupying too much disk space.

Regularly prune log files other than the RAS1 log files in the `logs` directory. Unlike the RAS1 log files that are pruned automatically, other log types can grow indefinitely, for example, the logs in Table 8 on page 849 that include a process ID number (PID).

Use collector trace logs as an additional source of troubleshooting information.

Note: The **KDC_DEBUG** setting and the **Maximum error tracing** setting can generate a large amount of trace logging. Use these settings only temporarily while you are troubleshooting problems. Otherwise, the logs can occupy excessive amounts of hard disk space.

Manually setting RAS trace parameters

You can manually edit the RAS1 trace logging parameters.

About this task

The Oracle Database Extended agent uses RAS1 tracing and generates the logs described in Table 8 on page 849. The default RAS1 trace level is ERROR.

Procedure

1. Open the trace options file:
   - **Windows systems:**

     install_dir\tmaitm6\KRZENV
   - **UNIX systems:**

     install_dir /config/rz.ini
2. Edit the line that begins with **KBB_RAS1=** to set trace logging preferences. For example, if you want detailed trace logging, set the **Maximum Tracing** option: KBB_RAS1=ERROR (UNIT:krz ALL) (UNIT:kra ALL) See "Trace options" on page 853 for detailed information.
3. Edit the line that begins with **KBB_RAS1_LOG=** to manage the generation of log files:
   - **MAXFILES**: The total number of files that are to be kept for all startups of a given program. When this value is exceeded, the oldest log files are discarded. The default value is 9.
   - **LIMIT**: The maximum size, in megabytes (MB) of a RAS1 log file. The default value is 5.
   - IBM Software Support might guide you to modify the following parameters:
     - **COUNT**: The number of log files to keep in the rolling cycle of one program startup. The default is 3.
     - **PRESERVE**: The number of files that are not to be reused in the rolling cycle of one program startup. The default value is 1.

     Note: The **KBB_RAS1_LOG** parameter also provides for the specification of the log file directory, log file name, and the inventory control file directory and name. Do not modify these values or log information can be lost.
4. Restart the monitoring agent so that your changes take effect.

What to do next

Monitor the size of the logs directory. Default behavior can generate a total of 45 - 60 MB for each agent that is running on a computer. For example, each database instance that you monitor can generate 45 - 60 MB of log data. See the "Procedure" section to learn how to adjust file size and numbers of log files to prevent logging activity from occupying too much disk space.

Regularly prune log files other than the RAS1 log files in the logs directory. Unlike the RAS1 log files that are pruned automatically, other log types can grow indefinitely, for example, the logs in Table 8 on page 849 that include a process ID number (PID).

Use collector trace logs as an additional source of troubleshooting information.

Note: The **KDC_DEBUG** setting and the **Maximum error tracing** setting can generate a large amount of trace logging. Use these settings only temporarily while you are troubleshooting problems. Otherwise, the logs can occupy excessive amounts of hard disk space.

Dynamic modification of trace settings

You can dynamically modify the trace settings for an IBM Tivoli Monitoring component, such as, Tivoli Enterprise Monitoring Server, Tivoli Enterprise Portal Server, most monitoring agents, and other components. You can access these components, with the exception of a few monitoring agents, from the tracing utility.

Dynamic modification of the trace settings is the most efficient method, because you can do it without restarting the component. Settings take effect immediately. Modifications by this method are not persistent.

Note: When the component is restarted, the trace settings are read again from the `.env` file. Dynamically modifying these settings does not change the settings in the `.env` files. To modify these trace settings permanently, modify them in the `.env` files.

ras1

Run this command to modify the trace settings for a Tivoli Monitoring component.

The syntax is as follows:

```
ras1 set|list (UNIT|COMP: class_name ANY|ALL|Detail|ERROR|Flow|INPUT|Metrics|OUTPUT|STATE)
{(UNIT|COMP: class_name ANY|ALL|Detail|ERROR|Flow|INPUT|Metrics|OUTPUT|STATE)}
```

You can specify more than one component class to which to apply the trace settings.

Command options

set
: Turns on or off tracing depending upon the value of its parameters. If the parameter is **ANY**, it turns it off. All other parameters turn on tracing based on the specified type or level.

list
: Displays the default level and type of tracing that is set by default.

Parameters

The parameters that determine the component classes to which to apply the trace settings are as follows:

COMP: *class_name*
: Modifies the trace setting for the name of the component class, as specified by *class_name* , for example, `COMP:KDH`. The output contains trace for the specified class.

UNIT: *class_name*
: Modifies the trace setting for any unit that starts with the specified *class_name* value, for example, `UNIT: kra`. The output contains trace for any unit that begins with the specified filter pattern.

The parameters that determine the trace level and type are as follows:

ALL
: Displays all trace levels, including every trace point defined for the component. This setting might result in a large amount of trace, so specify other parameters to exclude unwanted trace. You might require the **ALL** parameter to isolate a problem, which is the equivalent to setting `"Error Detail Flow State Input Output Metrics"`.

ANY
: Turns off tracing.

Detail
: Displays detailed information about each function.

When entered with the `list` option, the trace is tagged with `Det`.

ERROR
Logs internal error conditions.

When entered with the `list` option, the trace is tagged with `ER`. The output can also be tagged with `EVERYE+EVERYU+ER`.

Flow
Displays control flow data for each function entry and exit.

When entered with the `list` option, the trace is tagged with `Fl`.

INPUT
Displays input data for each function.

When entered with the `list` option, the trace is tagged with `IN`.

Metrics
Displays metrics on each function.

When entered with the `list` option, the trace is tagged with `ME`.

OUTPUT
Displays output data for each function.

When entered with the `list` option, the trace is tagged with `OUT`.

State
Displays the status for each function.

When entered with the `list` option, the trace is tagged with `St`.

Example

If you enter `ras1 set (COMP:KDH ALL) (COMP:ACF1 ALL) (COMP:KDE ALL)`, the trace utility turns on all levels of tracing for all the files and functions for which `KDH`, `ACF1`, and `KDE` are the classes.

```
kbbcre1.c, 400, May 29 2007, 12:54:43, 1.1, *
kbbcrn1.c, 400, May 29 2007, 12:54:42, 1.1, *
kdhb1de.c, 400, May 29 2007, 12:59:34, 1.1, KDH
kdh0med.c, 400, May 29 2007, 12:59:24, 1.1, KDH
kdhsrej.c, 400, May 29 2007, 13:00:06, 1.5, KDH
kdhb1fh.c, 400, May 29 2007, 12:59:33, 1.1, KDH
kdhb1oe.c, 400, May 29 2007, 12:59:38, 1.2, KDH
kdhs1ns.c, 400, May 29 2007, 13:00:08, 1.3, KDH
kbbacdl.c, 400, May 29 2007, 12:54:27, 1.2, ACF1
kbbaclc.c, 400, May 29 2007, 12:54:27, 1.4, ACF1
kbbac1i.c, 400, May 29 2007, 12:54:28, 1.11, ACF1
vkdhsfcn.c, 400, May 29 2007, 13:00:11, 1.1, KDH
kdhserq.c, 400, May 29 2007, 12:59:53, 1.1, KDH
kdhb1pr.c, 400, May 29 2007, 12:59:39, 1.1, KDH
kdhsgnh.c, 400, May 29 2007, 12:59:49, 1.1, KDH
kdh0uts.c, 400, May 29 2007, 12:59:23, 1.1, KDH
kdhsrsp.c, 400, May 29 2007, 13:00:13, 1.2, KDH
kdhs1rp.c, 400, May 29 2007, 13:00:12, 1.1, KDH
kdhscsv.c, 400, May 29 2007, 12:59:58, 1.9, KDH
kdebbac.c, 400, May 29 2007, 12:56:50, 1.10, KDE
...
```

Turning on tracing

To use the tracing utility, you must use a local logon credential for the computer. This tracing method uses the IBM Tivoli Monitoring Service Console. Access the Service Console by using a web browser.

About this task

When you start the Service Console, information is displayed about the components that are currently running on that computer. For example, these components are listed as follows:

- Tivoli Enterprise Portal Server: `cnp`
- Monitoring Agent for Windows OS: `nt`
- Tivoli Enterprise Monitoring Server: `ms`

After you log on, you can type a question mark (?) to display a list of the supported commands. Use the **ras1** command to modify trace settings. If you type this command in the field at the bottom of the window, the help for this command is displayed.

Procedure

1. Open a web browser and enter the URL to access the Service Console.

   ```
   http://hostname:1920
   ```

   where *hostname* is the IP address or host name of the computer on which the IBM Tivoli Monitoring component is running.
2. Click the hyperlink associated with the component for which you want to modify its trace settings.

   Note: In the previous view, if you want to modify tracing for the Tivoli Enterprise Monitoring Server, select **IBM Tivoli Monitoring Service Console** under **Service Point: system.*your host name*_ms**.
3. Enter a user ID and password to access the system. This ID is any valid user that has access to the system.
4. Enter the command to turn on the required level of trace for the specified component classes or units.

   ```
   ras1 set (UNIT|COMP: class_name ALL|Flow|ERROR|Detail|INPUT|Metrics|OUTPUT|STATE)
   {(UNIT|COMP: class_name ALL|Flow|ERROR|Detail|INPUT|Metrics|OUTPUT|STATE)}
   ```

   For example, to turn on the control flow trace for the KDE, the command is:

   ```
   ras1 (COMP:KDE Flow)
   ```

Turning off tracing

You can use the IBM Tivoli Monitoring Service Console to run the **ras1** command and dynamically turn off tracing.

Procedure

1. Open a web browser and enter the URL to access the Service Console.

   ```
   http://hostname:1920
   ```

   where *hostname* is the IP address or host name of the computer on which the IBM Tivoli Monitoring component is running.
2. Click the hyperlink associated with the component for which you want to modify its trace settings.
3. Enter a user ID and password to access the system. This ID is any valid user that has access to the system.
4. Enter the command to turn off the required level of trace for the specified component classes or units.

   ```
   ras1 set (UNIT|COMP: class_name ANY)
   {(UNIT|COMP: class_name ANY)}
   ```

   For example, to turn off tracing for the kbbcrcd class of the Windows OS agent, the command is:

   ```
   ras1 set (UNIT:kbbcrcd ANY)
   ```

Setting trace parameters for the Tivoli Enterprise Console server

In addition to the trace information captured by IBM Tivoli Monitoring, you can also collect additional trace information for the Tivoli Enterprise Console components that gather event server metrics.

About this task

To collect this information, modify the `.tec_diag_config` file on the Tivoli Enterprise Console event server. Use the steps in the following procedure to modify the event server trace parameters.

Procedure

1. Open the `$BINDIR/TME/TEC/.tec_diag_config` file in an ASCII editor.
2. Locate the entries that configure trace logging for the agent components on the event server. Two entries are included, one for `tec_reception` and one for `tec_rule`:

```
# to debug Agent Utils
tec_reception Agent_Utils  error   /tmp/tec_reception
SP
# to debug Agent Utils
tec_rule Agent_Utils   error   /tmp/tec_rule
```

3. To gather additional trace information, modify these entries to specify a trace level of `trace2`:

```
# to debug Agent Utils
tec_reception Agent_Utils   trace2  /tmp/tec_reception
SP
# to debug Agent Utils
tec_rule Agent_Utils       trace2  /tmp/tec_rule
```

4. In addition, modify the `Highest_level` entries for `tec_rule` and `tec_reception`:

```
tec_reception Highest_level  trace2
SP
tec_rule Highest_level trace2
```

Problems and workarounds

The known problems and workarounds are organized into types of problems that might occur with the Oracle Database Extended agent, for example installation and configuration problems and workspace problems.

Note: You can resolve some problems by ensuring that your system matches the system requirements listed in the Prerequisites topic for the agent in the IBM Tivoli Composite Application Manager for Applications Information Center.

For general troubleshooting information, see the *IBM Tivoli Monitoring Troubleshooting Guide*.

Installation and configuration troubleshooting

Problems can occur during installation, configuration, and uninstallation of the agent.

The problems and solutions in Table 9 on page 860 can occur during installation, configuration, and uninstallation of the agent.

Table 9. Problems and solutions for installation and configuration

Problem	Solution
(*UNIX only*) During a command-line installation, you choose to install a component that is currently installed, and you see the following warning: `WARNING - you are about to install the SAME version of "component_name"` where *component_name* is the name of the component that you are attempting to install. **Note:** This problem affects UNIX command-line installations. If you monitor only Windows environments, you see this problem if you choose to install a product component (for example, a monitoring server) on a UNIX system.	You must exit and restart the installation process. You cannot return to the list where you selected components to install. When you run the installer again, do not attempt to install any component that is currently installed.
Diagnosing problems with product browse settings (Windows systems only).	When you have problems with browse settings, complete the following steps: 1. Click **Start** > **Programs** > **IBM Tivoli Monitoring** > **Manage Tivoli Enterprise Monitoring Services**. The Manage Tivoli Enterprise Monitoring Services window is displayed. 2. Right-click the Windows agent and select **Browse Settings**. A text window is displayed. 3. Click **Save As** and save the information in the text file. If requested, you can forward this file to IBM Software Support for analysis.
A message similar to `"Unable to find running CMS on CT_CMSLIST"` in the log file is displayed.	If a message similar to `"Unable to find running CMS on CT_CMSLIST"` is displayed in the log file, the agent cannot connect to the monitoring server. Confirm the following points: • Do multiple network interface cards (NICs) exist on the system? • If multiple NICs exist on the system, find out which one is configured for the monitoring server. Ensure that you specify the correct host name and port settings for communication in the IBM Tivoli Monitoring environment.
The system is experiencing high CPU usage.	**Agent process:** View the memory usage of the KRZCMA process. If CPU usage seems to be excessive, restart the monitoring agent. **Network cards:** The network card configurations can decrease the performance of a system. Each stream of packets that a network card receives (assuming that it is a broadcast or destined for the under-performing system) must generate a CPU interrupt and transfer the data through the I/O bus. If the network card in question is a bus-mastering card, work can be offloaded and a data transfer between memory and the network card can continue without using CPU processing power. Bus-mastering cards are 32-bit and are based on PCI or EISA bus architectures.

Table 9. Problems and solutions for installation and configuration (continued)

Problem	Solution
The Oracle Database Extended agent is unable to read the remote alert log file on Windows systems.	When you configure the Oracle Database Extended agent to access the remote alert log file, the following guidelines apply: • The remote file path must follow the universal naming convention. For example, `\\tivx015\path\alert_orcl.log`. And file path in a mapped network drive is not supported. • The Oracle agent must run under an interactive user account, instead of the system account. • The files on the remote server can be accessed without a password, or the remote server is connected using the Oracle Database Extended agent user account.
On Solaris systems, no more than 256 characters can be entered for the Connection Name setting when configuring the Oracle Database Extended agent through the command line.	To enter a connection name that is more than 256 characters, configure the Oracle Database Extended agent through the Manage Tivoli Enterprise Monitoring Service.
The following error message in displayed in the Tivoli Enterprise Portal: `Loading Oracle OCI library failed!`	Oracle Instant Client - Basic Lite Packaging might cause this problem. To configure the agent, you must download and use Oracle Instant Client - Basic Packaging, which contains all files required to run OCI, OCCI, and JDBC-OCI applications. Also, an old version of the OCI library might cause this problem; download and use the latest version Oracle Instant Client to configure the agent.
When installing and configuring the agent as a non-administrator user on a Windows 2008 system, the following alert is displayed: `Your logon ID must have Administrator rights to install IBM Tivoli Composite Application Manager Extended Agent for Oracle Database`. The `Run as Administrator` option is not displayed.	When running `kinconfg.exe` or `setup.exe` commands, use the `Run as Administrator` option. The configuration process ends without error.
The agent cannot load the configuration file and cannot be started when the system OS host name is not consistent with the NetBIOS host name.	This problem happens because the XML configuration tool generates the configuration file by using the OS host name file (`OS_hostname_rz_`*`agent_instance`*`.cfg`) while the agent loads the configuration file by using the NetBIOS/NetworkAdapter host name file (`NetBIOS_hostname_rz_`*`agent_instance`*`.cfg`). You can choose from the following options: • Change the system OS host name to match the NetBIOS host name, and reconfigure the agent. • Copy the `OS_hostname_rz_`*`agent_instance`*`.cfg` file to the `NetBIOS_hostname_rz_`*`agent_instance`*`.cfg` file. • On a UNIX system, link the `OS_hostname_rz_`*`agent_instance`*`.cfg` file to the `NetBIOS_hostname_rz_`*`agent_instance`*`.cfg` file.

Table 10. General problems and solutions for uninstallation

Problem	Solution
On Windows systems, uninstallation of IBM Tivoli Monitoring fails to uninstall the entire environment.	Be sure that you follow the general uninstallation process described in the *IBM Tivoli Monitoring Installation and Setup Guide*: 1. Remove Tivoli Enterprise Monitoring Server Application support by completing the following steps: a. Use Manage Tivoli Enterprise Monitoring Services. b. Select **Tivoli Enterprise Monitoring Server**. c. Right-click and select **Advanced**. d. Select **Remove TEMS application support**. e. Select the agent to remove its application support. 2. Uninstall the monitoring agents first, as in the following examples: • Uninstall a single monitoring agent for a specific database. -OR- • Uninstall all instances of a monitoring product, such as IBM Tivoli Monitoring for Databases. 3. Uninstall IBM Tivoli Monitoring.
The way to remove inactive managed systems (systems whose status is OFFLINE) from the Navigator tree in the portal is not obvious.	Use the following steps to remove, but not uninstall, an offline managed system from the Navigator tree: 1. Click the **Enterprise** icon in the Navigator tree. 2. Right-click, and then click **Workspace** > **Managed System Status**. 3. Right-click the offline managed system, and select **Clear offline entry**. To uninstall the monitoring agent, use the procedure described in the *IBM Tivoli Monitoring Installation and Setup Guide*.

Table 10. General problems and solutions for uninstallation (continued)

Problem	Solution
IBM Tivoli Monitoring might not be able to generate a unique name for monitoring components because of the truncation of names that the product automatically generates.	If the agent supports multiple instances, IBM Tivoli Monitoring automatically creates a name for each monitoring component by concatenating the subsystem name, host name, and product code separated by colons (*subsystem_name*:*hostname*:KRZ). **Note:** When you monitor a multinode system, such as a database, IBM Tivoli Monitoring adds a subsystem name to the concatenated name, typically a database instance name. The length of the name that IBM Tivoli Monitoring generates is limited to 32 characters. Truncation can result in multiple components having the same 32-character name. If this problem happens, shorten the *hostname* portion of the name as follows: 1. Open the configuration file for the monitoring agent, which is located in the following path: • **On Windows:** *install_dir*\tmaitm6\K*product_code*CMA.INI. For example, the product code for the Monitoring Agent for Windows OS is NT. The file name is `KNTCMA.INI`. • **On UNIX and Linux:** `itm_home/config/product_code.ini` and `product_code.config`. For example, the file names for the Monitoring Agent for UNIX OS is `ux.ini` and `ux.config`. 2. Find the line that begins with `CTIRA_HOSTNAME=`. 3. Type a new name for host name that is a unique, shorter name for the host computer. The final concatenated name including the subsystem name, new host name, and KRZ, cannot be longer than 32 characters. **Note:** You must ensure that the resulting name is unique with respect to any existing monitoring component that was previously registered with the Tivoli Enterprise Monitoring Server. 4. Save the file. 5. Restart the agent.
The software inventory tag for the agent on UNIX and Linux systems is not removed during uninstallation of the agent.	After uninstalling the agent, manually remove the file named *full name of agent*`.cmptag` from the `$CANDLEHOME/properties/version/` directory.

Table 10. General problems and solutions for uninstallation (continued)

Problem	Solution
When the agent is installed using group deployment, deploygroup was run multiple times. The group deployment starts and completes successfully, but there were multiple entries in the Deploy Status Summary workspace on the Tivoli Enterprise Portal. When the command tried to install multiple times, the additional installations were queued and then were in failed state though the agent was deployed successfully. **Note:** • When the bundle group contains a single bundle and the deploy group contains more than one member (managed system of the same type as AIX or Linux), the deployment is successful on both systems. • When the bundle group contains more than one bundle and the deploy group contains single or multiple members, the deployment will be executed on each group member (managed system) depending on the members present in the bundle group and deploy group. • The command creates a transaction for each XX bundle for each target system; the bundle matching the operating system for the deployment member is processed successfully; and remaining transactions were in a queued or failed state.	There is no solution at this time.

Remote deployment troubleshooting

Problems can occur with remote deployment and removal of agent software using the Agent Remote Deploy process.

Table 11 contains problems and solutions related to remote deployment.

Table 11. Remote deployment problems and solutions

Problem	Solution
While you are using the remote deployment feature to install the IBM Tivoli Composite Application Manager Extended Agent for Oracle Database, an empty command window is displayed on the target computer. This problem occurs when the target of remote deployment is a Windows computer. (For more information about the remote deployment feature, see the *IBM Tivoli Monitoring Installation and Setup Guide*.)	Do not close or modify this window. It is part of the installation process and is dismissed automatically.
The removal of a monitoring agent fails when you use the remote removal process in the Tivoli Enterprise Portal desktop or browser.	This problem might occur when you attempt the remote removal process immediately after you have restarted the Tivoli Enterprise Monitoring Server. You must allow time for the monitoring agent to refresh its connection with the Tivoli Enterprise Monitoring Server before you begin the remote removal process.

Table 11. Remote deployment problems and solutions (continued)

Problem	Solution
One of the following two messages is displayed when you configure a remote agent instance: • Configuring through the portal: `KFWITM290E An unexpected error occurred. The current task was cancelled.` • Configuring through the command line: `An unexpected system error occurred while executing the addSystem command`	Follow these guidelines when you configure a remote agent instance: • Configuring through the portal: – If the number of the database connections is less than or equal to 10, the total number of user input characters must not exceed 1000. – If the number of the database connections is less than 20 and more than 10, the total number of user input characters must not exceed 750. – If the number of the database connections is more than 20, the total number of user input characters must not exceed 500. The user input includes agent instance name, user ID, password, Oracle instance client path, Oracle home, Oracle database connection name, Oracle database connection string, and Oracle Alert Log path. • Configuring through the command line: When you configure remotely using the `tacmd -t` *`pc`* `-n` *`node`* `-p` *`properties`* command, the length of the *properties* string must not exceed the maximum length of 2500 characters.
After you add the agent bundle to the Tivoli Enterprise Monitoring Server, the IBM Tivoli Composite Application Manager Extended Agent for Oracle Database is still not listed in the Select a Monitoring Agent window.	Deploy the Oracle Database Extended agent through the command line.
After you deploy the Oracle Database Extended agent remotely, the agent does not connect to the same Tivoli Enterprise Monitoring Server with the OS agent.	This problem occurs when the target of the remote deployment is a 64-bit Windows workstation, and the OS agent is 64-bit version. To solve the problem, log in the Windows workstation where the Oracle Database Extended agent is installed remotely. Reconfigure the Oracle Database Extended agent with the correct **`Agent-to-TEMS`** parameter.

Table 11. Remote deployment problems and solutions (continued)

Problem	Solution

Remotely deploying a 64-bit Oracle Database Extended agent to a Windows 64-bit computer with a Tivoli Monitoring V6.2.3 Fix Pack 1 OS agent installed by using the command line failed with the following return message: `KDY0005E The component RZ is not installed on AC. The Agent HOSTNAME bundle requires that this component be present for the installation to proceed.`	1. On the Tivoli Enterprise Monitoring Server computer where the Oracle Database Extended agent bundle was added, add the KAC bundle version of 062301000 from the IBM Tivoli Monitoring V6.2.3 Fix Pack 1 Windows images into the Tivoli Enterprise Monitoring Server depot.
	Examples:
	• For the Tivoli Enterprise Monitoring Server on Windows systems:
	`C:\IBM\ITM> tacmd addbundles -t AC -i C:\images\ITM623FP1\WINDOWS\Deploy`
	• For the Tivoli Enterprise Monitoring Server on Linux systems:
	`/opt/IBM/ITM/bin/tacmd addbundles -t AC -i /images/ITM623FP1/WINDOWS/Deploy`
	2. (Optional) Check whether an orphan process named SETUP.EXE is on the OS agent computer and stop this process.
	3. Run the **tacmd** command to remotely deploy the Oracle Database Extended agent again.

Agent troubleshooting

A problem can occur with the agent after it has been installed.

Table 12 contains problems and solutions that can occur with the agent after it has been installed.

Table 12. Agent problems and solutions

Problem	Solution
Log data accumulates too rapidly.	Check the RAS trace option settings, which are described in "Setting RAS trace parameters by using the GUI" on page 854. The trace option settings that you can set on the `KBB_RAS1=` and `KDC_DEBUG=` lines potentially generate large amounts of data.
When using the **itmcmd agent** commands to start or stop this monitoring agent, you receive the following error message: `MKCIIN0201E Specified product is not configured.`	Include the command option **-o** to specify the instance to start or stop. The instance name must match the name used for configuring the agent. For example: `./itmcmd agent -o Test1 start rz` For more information about using the itmcmd commands, see the *IBM Tivoli Monitoring Command Reference*.

Table 12. Agent problems and solutions (continued)

Problem	Solution
A configured and running instance of the monitoring agent is not displayed in the Tivoli Enterprise Portal, but other instances of the monitoring agent on the same system are displayed in the portal.	IBM Tivoli Monitoringproducts use Remote Procedure Call (RPC) to define and control product behavior. RPC is the mechanism that a client process uses to make a subroutine call (such as GetTimeOfDay or ShutdownServer) to a server process somewhere in the network. Tivoli processes can be configured to use TCP/UDP, TCP/IP, SNA, and SSL as the protocol (or delivery mechanism) for RPCs that you want. IP.PIPE is the name given to Tivoli TCP/IP protocol for RPCs. The RPCs are socket-based operations that use TCP/IP ports to form socket addresses. IP.PIPE implements virtual sockets and multiplexes all virtual socket traffic across a single physical TCP/IP port (visible from the **netstat** command). A Tivoli process derives the physical port for IP.PIPE communications based on the configured, well-known port for the hub Tivoli Enterprise Monitoring Server. (This well-known port or BASE_PORT is configured by using the 'PORT:' keyword on the **KDC_FAMILIES / KDE_TRANSPORT** environment variable and defaults to '1918'.) The physical port allocation method is defined as (BASE_PORT + 4096*N), where N=0 for a Tivoli Enterprise Monitoring Server process and N={1, 2, ..., 15} for another type of monitoring server process. Two architectural limits result as a consequence of the physical port allocation method: • No more than one Tivoli Enterprise Monitoring Server reporting to a specific Tivoli Enterprise Monitoring Server hub can be active on a system image. • No more than 15 IP.PIPE processes can be active on a single system image. A single system image can support any number of Tivoli Enterprise Monitoring Server processes (address spaces) if each Tivoli Enterprise Monitoring Server on that image reports to a different hub. By definition, one Tivoli Enterprise Monitoring Server hub is available per monitoring enterprise, so this architecture limit has been simplified to one Tivoli Enterprise Monitoring Server per system image. No more than 15 IP.PIPE processes or address spaces can be active on a single system image. With the first limit expressed above, this second limitation refers specifically to Tivoli Enterprise Monitoring Agent processes: no more than 15 agents per system image. Continued on next row.

Table 12. Agent problems and solutions (continued)

Problem	Solution
Continued from previous row.	This limitation can be circumvented (at current maintenance levels, IBM Tivoli Monitoring V6.1, Fix Pack 4 and later) if the Tivoli Enterprise Monitoring Agent process is configured to use the EPHEMERAL IP.PIPE process. (This process is IP.PIPE configured with the 'EPHEMERAL:Y' keyword in the **KDC_FAMILIES / KDE_TRANSPORT** environment variable). The number of ephemeral IP.PIPE connections per system image has no limitation. If ephemeral endpoints are used, the Warehouse Proxy agent is accessible from the Tivoli Enterprise Monitoring Server associated with the agents using ephemeral connections either by running the Warehouse Proxy agent on the same computer or by using the Firewall Gateway feature. (The Firewall Gateway feature relays the Warehouse Proxy agent connection from the Tivoli Enterprise Monitoring Server computer to the Warehouse Proxy agent computer if the Warehouse Proxy agent cannot coexist on the same computer.)
In the krzagent log file, the following message is repeatedly displayed: `4A6A1D11.1C79-9:kraahbin.cpp, 519,"WriteRow") Error writing to file` *`intall_dir`*`/` *`arch`*`/rz/hist/` *`instance_name`*`/KRZ` *`attribute_group_ID`* `errno = 1` Check the size of the KRZ`attribute_group_ID` historical file, and the file size exceeds the file size limitation of the file system, for example, 2G on Linux for System x® RH4. This problem also causes high CPU usage, and might cause the agent to fail.	Use the following steps to solve this problem: 1. Remove the historical file that exceeds the file size limitation. 2. Change the history collection configuration to reduce the historical file size: • Change the value of the Collection Interval attribute to a larger collection period. This change can be used to reduce the amount of data that is kept on disk by collecting less historical data. For example, from the default value of 15 minutes to 1 hour. • Change the value of the Warehouse Interval attribute to a shorter retention period. This change can be used to reduce the amount of data that is kept on disk after successfully uploading to the warehouse. For example, from the default value of 1 day to 1 hour.
A 0 (zero) is displayed in the following columns for the monitored Oracle RDBMS 10g instance: • The Unused Capacity column and the % Free column in the ASM Disk Group Capacity workspace under the RDBMS subnode • The Unused Capacity column and the % Free column in the ASM Disk Capacity workspace under the RDBMS subnode	0 is the value that is reported by the Oracle database. The value of the free_mb column in the Oracle views, v$asm_disk and v$asm_diskgroup, is 0 if the value is queried from a database instance. This problem exists for Oracle RDBMS 10g. For detailed information, see Oracle metalink 294325.1. The free_mb attribute value is the free space in an ASM DISKGROUP (V$ASM_DISKGROUP) or in an ASM DISK (V$ASM_DISK). Configure the agent and connect it to an ASM instance, and the correct values are displayed in the Unused Capacity columns and % Free column in the ASM Disk Group Capacity workspace under ASM subnode, and the Unused Capacity column and % Free column in the ASM Disk Capacity workspace under ASM subnode.

Table 12. Agent problems and solutions (continued)

Problem	Solution
The memory usage of the Oracle Database Extended agent processes, krzstart or krzclient, increases continually when the Oracle Database Extended agent instance has inactive database connections.	Configure Oracle Database Extended agent instances with the Oracle database or Oracle instant client version 11.1.0.6 or later.
Processes of the Oracle Database Extended agent consume high CPU.	• Writing a large amount of data to historical data collection files might consume CPU and I/O. To solve the problem, decrease the historical data collection for attribute groups that require large system resources, for example, the KRZDAFIO and KRZSEGSTAT attribute groups. You can also reduce the frequency of historical data collection by changing the value of the Collection Interval attribute to a larger collection period, for example, from the default value of 15 minutes to 1 hour. • Detailed RAS1 tracing might cause CPU and I/O overhead, and impact the performance of the monitoring agent. Check whether the RAS1 tracing is set to a detailed option, for example, `KBB_RAS1=ERROR (UNIT:krz ALL)`. Restore the RAS1 tracing to the minimal level of `KBB_RAS1=ERROR` after problem diagnosis is completed, or change the trace level to `KBB_RAS1=ERROR (UNIT: krz ERROR)`, and restart the Oracle Database Extended agent.
I cannot find my queries.	Agents that include subnodes display their queries within the element in the Query Editor list that represents the location of the attribute group. The queries are most often found under the name of the subnode, not the name of the agent.

Table 12. Agent problems and solutions (continued)

Problem	Solution
Historical data collection and the situation that is using the TOP SQL attribute group do not work.	To enable historical collection for the TOP SQL attribute group, configure historical collection: 1. In the navigation pane, click the TOP SQL attribute group. 2. Click the **Filter** tab, and enter the information in the table for the following filters: Begin Hour Before Current®, End Hour Before Current, Order By, and Row Order. Define a situation to monitor the TOP SQL workspace, and add the following additional attributes to the situation formula: Begin Hour Before Current, End Hour Before Current, Order By, and Row Order. See "Attributes in each attribute group" on page 73 for attribute descriptions. The following workspaces use the Order By attribute value indicated: • Top SQL by Elapse Time: elapse_time_delta • Top SQL by CPU Time: cpu_time_delta • Top SQL by buffer gets: buffer_gets_delta • Top SQL by disk reads: disk_reads_delta • Top SQL by executions: executions_delta • Top SQL by parse calls: parse_calls_delta • Top SQL by sharable memory: sharable_mem • Top SQL by version count: version_count • Top SQL by cluster wait: clwait_delta
After upgrading to V6.3.1 Fix Pack 1, the subnode ID is truncated from 25 to 24 characters, the original subnode with 25 characters changes to grey, and the new subnode with 24 characters is displayed.	This behavior is expected. In 6.3.1-TIV-ITM_KRZ-IF0001, the agent changed the maximum subnode ID to 24 characters to avoid the following problem, which is a known APAR for ITM622FP4: "pure event cannot fire when subnode name length is 32 characters". To avoid the subnode being truncated, reduce the length of the database connection name, agent instance name, or host name; or, see "Changing default naming conventions for database connections" on page 15 for information.

Workspace troubleshooting

Problems can occur with general workspaces and agent-specific workspaces.

Table 13 on page 871 contains problems and solutions related to workspaces.

Table 13. Workspace problems and solutions

Problem	Solution
The process application components are available, but the Availability status shows PROCESS_DATA_NOT_AVAILABLE.	This problem occurs because the PerfProc performance object is disabled. When this condition exists, IBM Tivoli Monitoring cannot collect performance data for this process. Use the following steps to confirm that this problem exists and to resolve it: 1. In the Windows **Start** menu, click **Run**. 2. Type `perfmon.exe` in the **Open** field of the Run window. The Performance window is displayed. 3. Click the plus sign (+) in the toolbar located above the right pane. The Add Counters window is displayed. 4. Look for **Process** in the **Performance object** menu. 5. Complete one of the following actions: • If you see **Process** in the menu, the PerfProc performance object is enabled and the problem is coming from a different source. You might need to contact IBM Software Support. • If you do not see **Process** in the menu, use the Microsoft utility from the Microsoft.com Operations website to enable the PerfProc performance object. The **Process** performance object becomes visible in the **Performance object** menu of the Add Counters windows, and IBM Tivoli Monitoring is able to detect Availability data. 6. Restart the monitoring agent.
The name of the attribute does not display in a bar chart or graph view.	When a chart or graph view that includes the attribute is scaled to a small size, a blank space is displayed instead of a truncated name. To see the name of the attribute, expand the view of the chart until sufficient space is available to display all characters of the attribute name.
At the bottom of each view, you see the following Historical workspace KFWITM220E error: `Request failed during execution`.	Ensure that you configure all groups that supply data to the view. In the Historical Configuration view, ensure that data collection is started for all groups that supply data to the view.

Table 13. Workspace problems and solutions (continued)

Problem	Solution
You start collection of historical data but the data cannot be seen.	Use the following managing options for historical data collection: • Basic historical data collection populates the Warehouse with raw data. This type of data collection is turned off by default. For information about managing this feature including how to set the interval at which data is collected, see "Managing historical data" in the *IBM Tivoli Monitoring Administrator's Guide*. By setting a more frequent interval for data collection, you reduce the load on the system incurred every time data is uploaded. • Use the Summarization and Pruning agent to collect specific amounts and types of historical data. Historical data is not displayed until the Summarization and Pruning monitoring agent begins collecting the data. By default, this agent begins collection at 2 a.m. daily. At that point, data is visible in the workspace view. For information about how to modify the default collection settings, see "Managing historical data" in the *IBM Tivoli Monitoring Administrator's Guide*.
Historical data collection is unavailable because of incorrect queries in the Tivoli Enterprise Portal.	The Sort By, Group By, and First/Last functions column are not compatible with the historical data collection feature. Use of these advanced functions makes a query ineligible for historical data collection. Even if data collection has been started, you cannot use the time span feature if the query for the chart or table includes column functions or advanced query options (Sort By, Group By, First / Last). To ensure support of historical data collection, do not use the Sort By, Group By, or First/Last functions in your queries. For information about the historical data collection function, See "Managing historical data" in the *IBM Tivoli Monitoring Administrator's Guide* or the Tivoli Enterprise Portal online help .
When you use a long process name in the situation, the process name is truncated.	Truncation of process or service names for situations in the Availability table in the portal display is the expected behavior. The maximum name length is 100 bytes.
Regular (non-historical) monitoring data fails to be displayed.	Check the formation of the queries you use to gather data. For example, look for invalid SQL statements.
Navigator items and workspace titles are labeled with internal names such as `Kxx:KXX0000` instead of the correct names (such as Disk), where XX and xx represent the two-character agent code.	Ensure that application support has been added on the monitoring server, portal server, and portal client. For more information about installing application support, see "Installing and enabling application support" in the *IBM Tivoli Monitoring Installation and Setup Guide*.

Table 13. Workspace problems and solutions (continued)

Problem	Solution
No data is returned in any workspace for a certain period of time, for example, 1 minute.	This problem occurs because no request is processed until the previous request completes or exceeds the maximum time of data collection. Possible reasons for this problem are that the database is too busy to return data, or problems occur in the Oracle database, for example, SQL execution problems. Check the database status and tune the database, or solve the problems in the Oracle database. If the response time of data collection requests is still not acceptable after tuning the database, you can change the maximum time of data collection. To control the maximum time of data collection for all attribute groups, set the **CDP_COLLECTION_TIMEOUT** environment variable, the default value of which is 60 seconds. When the value for maximum time is longer, you are more likely to get data for a special attribute group that takes a long time to respond. But you are also more likely to block other data collection requests in that period of time. To avoid blocking data collection requests from a different database connection within the same agent instance, configure the database connection with this problem to a separate agent instance.

Situation troubleshooting

Problems can occur with situations and situation configuration.

Table 14 contains problems and solutions for situations.

Table 14. Situation problems and solutions

Problem	Solution
Monitoring activity requires too much disk space.	Check the RAS trace logging settings that are described in "Setting RAS trace parameters by using the GUI" on page 854. For example, trace logs grow rapidly when you apply the `ALL` logging option.
Monitoring activity requires too many system resources.	"Disk capacity planning for historical data" on page 790 describes the performance impact of specific attribute groups. If possible, decrease your use of the attribute groups that require greater system resources.
A formula that uses mathematical operators appears to be incorrect. For example, if you were monitoring a Linux system, the formula that calculates when **Free Memory** falls under 10 percent of **Total Memory** does not work: `LT #'Linux_VM_Stats.Total_Memory' / 10`	This formula is incorrect because situation predicates support only logical operators. Your formulas cannot have mathematical operators. **Note:** The Situation Editor provides alternatives to math operators. In the example, you can select the **% Memory Free** attribute and avoid the need for math operators.

Table 14. Situation problems and solutions (continued)

Problem	Solution
You want to change the appearance of situations when they are displayed in the navigation tree.	1. Right-click an item in the navigation tree. 2. Click **Situations** in the menu. The Situation Editor window is displayed. 3. Select the situation that you want to modify. 4. Use the **State** menu in the lower right of the window to set the status and appearance of the Situation when it triggers. **Note:** The **State** setting is not related to severity settings in the Tivoli Enterprise Console.
When a situation is triggered in the Event Log attribute group, it remains in the Situation Event Console as long as the event ID entry is present in the Event Log workspace. When this event ID entry is removed from the Event Log workspace on the Tivoli Enterprise Portal, the situation is also cleared even if the actual problem that caused the event is not resolved, and the event ID entry is also present in the Windows Event Viewer.	A timeout occurs on the cache of events for the NT Event Log group. Increase the cache time of Event Log collection to meet your requirements by adding the following variable and timeout value to the `KpcENV` file for the agent (where *pc* is the two-letter product code): `CDP_NT_EVENT_LOG_CACHE_TIMEOUT=3600` This variable determines how long events from the NT Event Log are kept.
For a situation that uses the 'MISSING' operator and is distributed to a remote agentless monitoring subnode, no indication is displayed in the Tivoli Enterprise Portal or in the Situation Event Console when the situation becomes true.	The MISSING predicate is currently not supported on subnodes. If a situation with a MISSING predicate is distributed to a subnode, the agent cannot tell which subnode or node the event is occurring on. It inserts the system name as the origin node for the event and returns. When the event reaches the Tivoli Enterprise Portal Server, the origin node does not match the system name of the subnode where the situation is associated, so the event is dropped.
The situation for a specific agent is not visible in the Tivoli Enterprise Portal.	Open the Situation Editor. Access the All managed servers view. If the situation is not displayed, confirm that the monitoring server has been seeded for the agent. If not, seed the server, as described in the *IBM Tivoli Monitoring Installation and Setup Guide*.
The monitoring interval is too long.	Access the Situation Editor view for the situation that you want to modify. Check the **Sampling interval** area in the **Formula** tab. Adjust the time interval as required.
The situation did not activate at startup.	Manually recycle the situation as follows: 1. Right-click the situation and select **Stop Situation**. 2. Right-click the situation and select **Start Situation**. **Note:** You can permanently avoid this problem by selecting the **Run at Startup** check box of the Situation Editor view for a specific situation.
The situation is not displayed.	Click the **Action** tab and check whether the situation has an automated corrective action. This action can occur directly or through a policy. The situation might be resolving so quickly that you do not see the event or the update in the graphical user interface.
An Alert event did not occur even though the predicate was correctly specified.	Check the logs, reports, and workspaces.
A situation fires on an unexpected managed object.	Confirm that you distributed and started the situation on the correct managed system.

Table 14. Situation problems and solutions (continued)

Problem	Solution
The product did not distribute the situation to a managed system.	Click the **Distribution** tab and check the distribution settings for the situation.
The situation does not fire.	This problem can be caused when incorrect predicates are present in the formula that defines the situation. For example, the managed object shows a state that normally triggers a monitoring event, but the situation is not true because the wrong attribute is specified in the formula. In the **Formula** tab, analyze predicates as follows: 1. Click the **fx** icon in the upper-right corner of the **Formula** area. The Show formula window is displayed. a. Confirm the following details in the **Formula** area at the top of the window: • The attributes that you intend to monitor are specified in the formula. • The situations that you intend to monitor are specified in the formula. • The logical operators in the formula match your monitoring goal. • The numeric values in the formula match your monitoring goal. b. (Optional) Select the **Show detailed formula** check box in the lower left of the window to see the original names of attributes in the application or operating system that you are monitoring. c. Click **OK** to dismiss the Show formula window. 2. (Optional) In the **Formula** area of the **Formula** tab, temporarily assign numeric values that immediately trigger a monitoring event. The triggering of the event confirms that other predicates in the formula are valid. **Note:** After you complete this test, you must restore the numeric values to valid levels so that you do not generate excessive monitoring data based on your temporary settings. For additional information about situations that do not fire, see "Situations are not firing" in the *IBM Tivoli Monitoring Troubleshooting Guide*.
Situation events are not displayed in the Events Console view of the workspace.	Associate the situation with a Navigator item. **Note:** The situation does not need to be displayed in the workspace. It is sufficient that the situation is associated with any Navigator item.

Table 14. Situation problems and solutions (continued)

Problem	Solution
You do not have access to a situation.	**Note:** You must have administrator privileges to complete these steps. 1. Click **Edit** > **Administer Users** to access the Administer Users window. 2. In the **Users** area, select the user whose privileges you want to modify. 3. In the **Permissions** tab, **Applications** tab, and **Navigator Views** tab, select the permissions or privileges that correspond to the user role. 4. Click **OK**.
A managed system seems to be offline.	1. Select **Physical View** and click the Enterprise Level of the navigator tree. 2. Click **View** > **Workspace** > **Managed System Status** to see a list of managed systems and their status. 3. If a system is offline, check network connectivity and the status of the specific system or application.

Take Action commands troubleshooting

Problems can occur with Take Action commands.

Table 15 contains problems and solutions that can occur with Take Action commands.

When each Take Action command runs, it generates a log file listed in Table 8 on page 849.

Table 15. Take Action commands problems and solutions

Problem	Solution
Take Action commands often require several minutes to complete.	Allow several minutes. If you do not see a message advising you of completion, try to run the command manually.
Situations fail to trigger Take Action commands.	Attempt to manually run the Take Action command in the Tivoli Enterprise Portal. If the Take Action command works, look for configuration problems in the situation. See "Situation troubleshooting" on page 873. If the Take Action command fails, for general information about troubleshooting Take Action commands, see the *IBM Tivoli Monitoring Troubleshooting Guide*.
Take Action commands fail, and the return codes are not zero.	Click the **TakeAction Result** navigator item to access the TakeAction Status workspace, and check the detailed message from the TakeAction PL/SQL Status view or the TakeAction SELECT status view. A value of -2 in the Action App Return Code column indicates a timeout issue. To solve the timeout problem, increase the value of the **CDP_DP_ACTION_TIMEOUT** environment variable. However, if the action timeout is too large, any subsequent command or situation request might be blocked.

Table 15. Take Action commands problems and solutions (continued)

Problem	Solution
After you issue the RDB_Execute_SELECT Take Action command to query data from the monitored Oracle database, no query result data is displayed in the TakeAction SELECT Status view. Only the Success value is displayed in the Action Results column.	This problem occurs when one of the Oracle instances did not respond in the specific time, and the Oracle Database Extended agent is configured with this instance in the connection string. To solve the problem, check and ensure that all the Oracle instances that are specified in the connection string work correctly to establish the database connection. Then run the Take Action command again.

Support information

If you have a problem with your IBM software, you want to resolve it quickly.

IBM provides the following ways for you to obtain the support you need:

Online

The following websites contain troubleshooting information:

- Go to the IBM Software Support website (http://www.ibm.com/support/entry/portal/software) and follow the instructions.
- Go to the IBM Tivoli Distributed Monitoring and Application Management Wiki (http://www.lotus.com/ldd/tivmonitorwiki.nsf). Feel free to contribute to this wiki.

IBM Support Assistant

The IBM Support Assistant (ISA) is a free local software serviceability workbench that helps you resolve questions and problems with IBM software products. The ISA provides quick access to support-related information and serviceability tools for problem determination. To install the ISA software, go to the IBM Support Assistant website (http://www.ibm.com/software/support/isa).

Informational, warning, and error messages overview

Messages relay information about how the system or application is performing and can alert you to exceptional conditions when they occur.

Messages are sent to an output destination, such as a file, database, or console screen.

If you receive a warning or error message, you can do one of the following:

- Follow the instructions listed in the Detail window of the message if this information is included there.
- Consult the message details listed in this topic to see what action you can take to correct the problem.
- Consult the message log for message ID, text, time, and date of the message, as well as other data you can use to diagnose the problem.

Message format

The message format contains a message ID and text, an explanation, and an operator response.

IBM Tivoli Composite Application Manager Extended Agent for Oracle Database messages have the following format:

Message ID and text
Explanation
Operator Response

The message ID has the following format:
`CCC####severity`

where:

CCC Prefix that indicates the component to which the message applies. The component is one of the following:

KRZ General Oracle Database Extended agent messages

Number of the message

severity
Severity of the message. There are three levels of severity:

I Informational messages provide feedback about something that happened in the product or system that might be important. These messages can provide guidance when you are requesting a specific action from the product.

W Warning messages call your attention to an exception condition. The condition might not be an error but can cause problems if not resolved.

E Error messages indicate that an action cannot be completed because of a user or system error. These messages require user response.

The *Text* of the message provides a general statement regarding the problem or condition that occurred. The *Explanation* provides additional information about the message and the possible cause for the condition. The *Operator Response* provides actions to take in response to the condition, particularly for error messages (messages with the "E" suffix).

Note: Many message texts and explanations contain variables, such as the specific name of a server or application. Those variables are represented in this topic as symbols, such as "&1." Actual messages contain values for these variables.

Agent messages

The following messages apply to IBM Tivoli Composite Application Manager Extended Agent for Oracle Database.

KRZ9000I
`OK, The command succeeded.`

Explanation:
None.

Operator response:
None.

KRZ9001E
`ERROR, The command fails. See the detailed error message in the Action Results column.`

Explanation:
None.

Operator response:
None.

Appendix A. Event mapping

The Tivoli Event Integration Facility (EIF) interface is used to forward situation events to Tivoli Netcool/OMNIbus or Tivoli Enterprise Console.

EIF events specify an event class and the event data is specified as name value pairs that identify the name of an event slot and the value for the slot. An event class can have subclasses. IBM Tivoli Monitoring provides the base event class definitions and a set of base slots that are included in all monitoring events. Agents extend the base event classes to define subclasses that include agent-specific slots. For Oracle Database Extended agent events, the event classes correspond to the agent attribute groups, and the agent-specific slots correspond to the attributes in the attribute group.

A description of the event slots for each event class is provided in this topic. The situation editor in the Tivoli Enterprise Portal can be used to perform custom mapping of data to EIF slots instead of using the default mapping described in this topic. For more information about EIF slot customization, see the *Tivoli Enterprise Portal User's Guide*.

Tivoli Enterprise Console requires that event classes and their slots are defined in BAROC (Basic Recorder of Objects in C) files. Each agent provides a BAROC file that contains event class definitions for the agent and is installed on the Tivoli Enterprise Monitoring Server in the `TECLIB` directory (`install_dir/cms/TECLIB` for Windows systems and `install_dir/tables/TEMS_hostname/TECLIB` for UNIX systems) when application support for the agent is installed. The BAROC file for the agent and the base BAROC files provided with Tivoli Monitoring must also be installed onto the Tivoli Enterprise Console. For details, see "Setting up event forwarding to Tivoli Enterprise Console" in the *IBM Tivoli Monitoring Installation and Setup Guide*.

Each of the event classes is a child of KRZ_Base and is defined in the `krz.baroc` (version 06.31.01) file. The KRZ_Base event class can be used for generic rules processing for any event from the IBM Tivoli Composite Application Manager Extended Agent for Oracle Database.

For events generated by situations in the Agent Event attribute group, events are sent using the ITM_KRZ_AGENT_EVENT event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- event_level: INTEGER
- event_level_enum: STRING
- category: STRING
- instance_name: STRING
- error_code: INTEGER
- error_code_enum: STRING
- error_message: STRING
- subcategory: STRING
- suggestion: STRING
- suggestion_enum: STRING

For events generated by situations in the Agent Listener attribute group, events are sent using the ITM_KRZ_AGENT_LISTENER event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING

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- listener_file_name: STRING
- listener_name: STRING
- protocol_name: STRING
- address: STRING
- krz_status: INTEGER
- krz_status_enum: STRING
- connection_error_code: INTEGER
- connection_error_code_enum: STRING
- connection_error_message: STRING
- ping_test_time: STRING
- server_name: STRING
- listener_port: INTEGER
- listener_port_enum: STRING
- service_key: STRING
- pipe_name: STRING

For events generated by situations in the Agent Remote Connection attribute group, events are sent using the ITM_KRZ_AGENT_REMOTE_CONNECTION event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- tns_file_name: STRING
- net_service_name: STRING
- connect_descriptor: STRING
- krz_status: INTEGER
- krz_status_enum: STRING
- connection_error_code: INTEGER
- connection_error_code_enum: STRING
- connection_error_message: STRING
- connection_test_time: STRING

For events generated by situations in the ASM Alert Log Details attribute group, events are sent using the ITM_KRZ_ASM_ALERT_LOG_DETAILS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- severity_level: INTEGER
- severity_level_enum: STRING
- instance_name: STRING
- message_category: STRING
- message_number: INTEGER
- message_number_enum: STRING
- message_id: STRING
- message_text: STRING
- message_timestamp: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the ASM Alert Log Summary attribute group, events are sent using the ITM_KRZ_ASM_ALERT_LOG_SUMMARY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_name: STRING
- alert_log_path: STRING
- alert_log_readable: STRING
- alert_log_readable_enum: STRING
- total_errors_since_startup: INTEGER
- total_errors_since_startup_enum: STRING
- total_warnings_since_startup: INTEGER
- total_warnings_since_startup_enum: STRING
- last_search_timestamp: STRING
- total_errors_for_interval: INTEGER
- total_errors_for_interval_enum: STRING
- total_warnings_for_interval: INTEGER
- total_warnings_for_interval_enum: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the ASM BGProcess Stats attribute group, events are sent using the ITM_KRZ_ASM_BGPROCESS_STATS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- process_name: STRING
- process_count: INTEGER
- process_count_enum: STRING
- instance_id: INTEGER
- instance_id_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the ASM Client attribute group, events are sent using the ITM_KRZ_ASM_CLIENT event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- group_number: REAL
- group_number_enum: STRING
- instance_name: STRING
- database_name: STRING
- krz_status: STRING
- krz_status_enum: STRING
- software_version: STRING

- compatibility_version: STRING
- asm_instance_name: STRING
- asm_server_name: STRING
- asm_database_name: STRING

For events generated by situations in the ASM Database Topology attribute group, events are sent using the ITM_KRZ_ASM_DATABASE_TOPOLOGY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- node_information: STRING
- thrunode_information: STRING
- node_name: STRING
- node_type: STRING
- node_state: STRING
- node_state_enum: STRING

For events generated by situations in the ASM Disk attribute group, events are sent using the ITM_KRZ_ASM_DISK event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- group_number: REAL
- group_number_enum: STRING
- disk_number: REAL
- disk_number_enum: STRING
- disk_id: STRING
- compound_index: REAL
- compound_index_enum: STRING
- incarnation_number: REAL
- incarnation_number_enum: STRING
- mount_status: STRING
- header_status: STRING
- mode_status: STRING
- mode_status_enum: STRING
- disk_state: STRING
- redundancy: STRING
- library_name: STRING
- total_capacity_mb: REAL
- total_capacity_mb_enum: STRING
- unused_capacity_mb: REAL
- unused_capacity_mb_enum: STRING
- disk_size_mb: REAL
- disk_size_mb_enum: STRING
- free_percent: REAL
- free_percent_enum: STRING

- disk_name: STRING
- failure_group: STRING
- label: STRING
- path: STRING
- udid: STRING
- product: STRING
- create_date: STRING
- mount_date: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the ASM DiskGroup attribute group, events are sent using the ITM_KRZ_ASM_DISKGROUP event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- group_number: REAL
- group_number_enum: STRING
- group_id: STRING
- name: STRING
- sector_size_bytes: REAL
- sector_size_bytes_enum: STRING
- block_size_bytes: REAL
- block_size_bytes_enum: STRING
- allocation_unit_size_bytes: REAL
- allocation_unit_size_bytes_enum: STRING
- state: STRING
- state_enum: STRING
- type: STRING
- total_capacity_mb: REAL
- total_capacity_mb_enum: STRING
- free_capacity_mb: REAL
- free_capacity_mb_enum: STRING
- free_percent: REAL
- free_percent_enum: STRING
- required_capacity_mb: REAL
- required_capacity_mb_enum: STRING
- usable_capacity_mb: REAL
- usable_capacity_mb_enum: STRING
- usable_percent: REAL
- usable_percent_enum: STRING
- offline_disk_number: REAL
- offline_disk_number_enum: STRING

- unbalanced: STRING
- compatibility: STRING
- database_compatibility: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the ASM DiskGroupIOSTAT attribute group, events are sent using the ITM_KRZ_ASM_DISKGROUPIOSTAT event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- group_number: REAL
- group_number_enum: STRING
- group_id: STRING
- group_name: STRING
- read_request: REAL
- read_request_enum: STRING
- write_request: REAL
- write_request_enum: STRING
- read_error: REAL
- read_error_enum: STRING
- write_error: REAL
- write_error_enum: STRING
- read_time_ms: REAL
- read_time_ms_enum: STRING
- write_time_ms: REAL
- write_time_ms_enum: STRING
- total_read_bytes: REAL
- total_read_bytes_enum: STRING
- total_read_kb: REAL
- total_read_kb_enum: STRING
- total_read_mb: REAL
- total_read_mb_enum: STRING
- total_written_bytes: REAL
- total_written_bytes_enum: STRING
- total_written_kb: REAL
- total_written_kb_enum: STRING
- total_written_mb: REAL
- total_written_mb_enum: STRING
- response_time_ms: REAL
- response_time_ms_enum: STRING
- average_read_time_ms: REAL
- average_read_time_ms_enum: STRING

- average_write_time_ms: REAL
- average_write_time_ms_enum: STRING
- disk_read_bytes_ms: REAL
- disk_read_bytes_ms_enum: STRING
- disk_read_kb_ms: REAL
- disk_read_kb_ms_enum: STRING
- disk_read_mb_ms: REAL
- disk_read_mb_ms_enum: STRING
- disk_written_bytes_ms: REAL
- disk_written_bytes_ms_enum: STRING
- disk_written_kb_ms: REAL
- disk_written_kb_ms_enum: STRING
- disk_written_mb_ms: REAL
- disk_written_mb_ms_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the ASM DiskIOSTAT attribute group, events are sent using the ITM_KRZ_ASM_DISKIOSTAT event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- group_number: REAL
- group_number_enum: STRING
- disk_number: REAL
- disk_number_enum: STRING
- disk_id: STRING
- read_request: REAL
- read_request_enum: STRING
- write_request: REAL
- write_request_enum: STRING
- read_error: REAL
- read_error_enum: STRING
- write_error: REAL
- write_error_enum: STRING
- read_time_ms: REAL
- read_time_ms_enum: STRING
- write_time_ms: REAL
- write_time_ms_enum: STRING
- total_read_bytes: REAL
- total_read_bytes_enum: STRING
- total_read_kb: REAL
- total_read_kb_enum: STRING

- total_read_mb: REAL
- total_read_mb_enum: STRING
- total_written_bytes: REAL
- total_written_bytes_enum: STRING
- total_written_kb: REAL
- total_written_kb_enum: STRING
- total_written_mb: REAL
- total_written_mb_enum: STRING
- response_time_ms: REAL
- response_time_ms_enum: STRING
- average_read_time_ms: REAL
- average_read_time_ms_enum: STRING
- average_write_time_ms: REAL
- average_write_time_ms_enum: STRING
- disk_read_bytes_ms: REAL
- disk_read_bytes_ms_enum: STRING
- disk_read_kb_ms: REAL
- disk_read_kb_ms_enum: STRING
- disk_read_mb_ms: REAL
- disk_read_mb_ms_enum: STRING
- disk_written_bytes_ms: REAL
- disk_written_bytes_ms_enum: STRING
- disk_written_kb_ms: REAL
- disk_written_kb_ms_enum: STRING
- disk_written_mb_ms: REAL
- disk_written_mb_ms_enum: STRING
- disk_name: STRING
- failure_group: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the ASM FileInfo attribute group, events are sent using the ITM_KRZ_ASM_FILEINFO event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- full_alias_path: STRING
- is_system_created: STRING
- is_directory: STRING
- file_type: STRING
- creation_date: STRING
- modification_date: STRING
- file_redundancy: STRING
- file_striped: STRING
- block_size_bytes: REAL

- block_size_bytes_enum: STRING
- block_number: REAL
- block_number_enum: STRING
- file_size_bytes: REAL
- file_size_bytes_enum: STRING
- file_size_kb: REAL
- file_size_kb_enum: STRING
- file_size_mb: REAL
- file_size_mb_enum: STRING
- space_allocated_bytes: REAL
- space_allocated_bytes_enum: STRING
- space_allocated_kb: REAL
- space_allocated_kb_enum: STRING
- space_allocated_mb: REAL
- space_allocated_mb_enum: STRING
- redundancy_lowered: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the ASM Instance attribute group, events are sent using the ITM_KRZ_ASM_INSTANCE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- instance_number: REAL
- instance_number_enum: STRING
- instance_name: STRING
- krz_hostname: STRING
- version: STRING
- start_time: STRING
- krz_status: STRING
- parallel: STRING
- parallel_enum: STRING
- redo_thread_number: REAL
- redo_thread_number_enum: STRING
- archiver: STRING
- archiver_enum: STRING
- logins: STRING
- logins_enum: STRING
- shutdown_pending: STRING
- shutdown_pending_enum: STRING
- database_status: STRING
- database_status_enum: STRING

- instance_role: STRING
- instance_role_enum: STRING
- active_state: STRING
- active_state_enum: STRING
- blocked: STRING
- blocked_enum: STRING
- database_name: STRING

For events generated by situations in the ASM Operation attribute group, events are sent using the ITM_KRZ_ASM_OPERATION event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- group_number: REAL
- group_number_enum: STRING
- type: STRING
- state: STRING
- power: REAL
- power_enum: STRING
- actual: REAL
- actual_enum: STRING
- so_far: REAL
- so_far_enum: STRING
- estimated_work: REAL
- estimated_work_enum: STRING
- estimated_rate: REAL
- estimated_rate_enum: STRING
- estimated_minutes: REAL
- estimated_minutes_enum: STRING
- error_code: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the ASM Parameter attribute group, events are sent using the ITM_KRZ_ASM_PARAMETER event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- parameter_number: REAL
- parameter_number_enum: STRING
- parameter_name: STRING
- parameter_type: REAL
- parameter_type_enum: STRING

- krz_value: STRING
- display_value: STRING
- is_default: STRING
- is_default_enum: STRING
- is_session_modifiable: STRING
- is_session_modifiable_enum: STRING
- is_system_modifiable: STRING
- is_system_modifiable_enum: STRING
- is_instance_modifiable: STRING
- is_instance_modifiable_enum: STRING
- is_modified: STRING
- is_modified_enum: STRING
- is_adjusted: STRING
- is_adjusted_enum: STRING
- is_deprecated: STRING
- is_deprecated_enum: STRING
- description: STRING
- update_comments: STRING
- hash: REAL
- hash_enum: STRING
- is_basic: STRING
- is_basic_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the ASM Performance Object Status attribute group, events are sent using the ITM_KRZ_ASM_PERFORMANCE_OBJECT_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- query_name: STRING
- object_name: STRING
- object_type: INTEGER
- object_type_enum: STRING
- object_status: INTEGER
- object_status_enum: STRING
- error_code: INTEGER
- error_code_enum: STRING

For events generated by situations in the ASM Process attribute group, events are sent using the ITM_KRZ_ASM_PROCESS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING

- address: STRING
- process_id: REAL
- process_id_enum: STRING
- system_process_id: STRING
- username: STRING
- serial_number: REAL
- serial_number_enum: STRING
- terminal: STRING
- program: STRING
- trace_id: STRING
- trace_file: STRING
- background: STRING
- background_enum: STRING
- latch_wait: STRING
- latch_spin: STRING
- pga_memory_used_bytes: REAL
- pga_memory_used_bytes_enum: STRING
- pga_memory_used_kb: REAL
- pga_memory_used_kb_enum: STRING
- pga_memory_used_mb: REAL
- pga_memory_used_mb_enum: STRING
- pga_memory_allocated_bytes: REAL
- pga_memory_allocated_bytes_enum: STRING
- pga_memory_allocated_kb: REAL
- pga_memory_allocated_kb_enum: STRING
- pga_memory_allocated_mb: REAL
- pga_memory_allocated_mb_enum: STRING
- pga_memory_free_bytes: REAL
- pga_memory_free_bytes_enum: STRING
- pga_memory_free_kb: REAL
- pga_memory_free_kb_enum: STRING
- pga_memory_free_mb: REAL
- pga_memory_free_mb_enum: STRING
- pga_memory_max_bytes: REAL
- pga_memory_max_bytes_enum: STRING
- pga_memory_max_kb: REAL
- pga_memory_max_kb_enum: STRING
- pga_memory_max_mb: REAL
- pga_memory_max_mb_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the ASM Template attribute group, events are sent using the ITM_KRZ_ASM_TEMPLATE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- group_number: REAL
- group_number_enum: STRING
- entry_number: REAL
- entry_number_enum: STRING
- redundancy: STRING
- stripe_type: STRING
- system: STRING
- system_enum: STRING
- template_name: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the Database Information attribute group, events are sent using the ITM_KRZ_DATABASE_INFORMATION event class. This event class contains the following slots:
- node: STRING
- timestamp: STRING
- database_connection_name: STRING
- database_name: STRING
- database_version: STRING
- database_type: STRING
- database_bit_version: STRING
- database_status: STRING
- database_status_enum: STRING
- dataguard_group: STRING
- database_role: STRING
- database_role_enum: STRING
- instance_name: STRING
- server_name: STRING

For events generated by situations in the Database Overview attribute group, events are sent using the ITM_KRZ_DATABASE_OVERVIEW event class. This event class contains the following slots:
- node: STRING
- timestamp: STRING
- database_id: REAL
- database_id_enum: STRING
- database_name: STRING
- creation_datetime: STRING
- resetlogs_change_number: REAL
- resetlogs_change_number_enum: STRING
- resetlogs_time: STRING
- prior_resetlogs_change_number: REAL

- prior_resetlogs_change_number_enum: STRING
- prior_resetlogs_time: STRING
- archive_log_mode: STRING
- checkpoint_change_number: REAL
- checkpoint_change_number_enum: STRING
- archive_change_number: REAL
- archive_change_number_enum: STRING
- controlfile_type: STRING
- controlfile_create_time: STRING
- controlfile_sequence_number: REAL
- controlfile_sequence_number_enum: STRING
- controlfile_change_number: REAL
- controlfile_change_number_enum: STRING
- last_controlfile_time: STRING
- open_resetlogs: STRING
- version_time: STRING
- open_mode: STRING
- open_mode_enum: STRING
- protection_mode: STRING
- protection_level: STRING
- remote_archive: STRING
- remote_archive_enum: STRING
- activation_number: REAL
- activation_number_enum: STRING
- switchover_number: REAL
- switchover_number_enum: STRING
- database_role: STRING
- database_role_enum: STRING
- archivelog_change_number: REAL
- archivelog_change_number_enum: STRING
- archivelog_compression: STRING
- archivelog_compression_enum: STRING
- switchover_status: STRING
- dataguard_broker: STRING
- dataguard_broker_enum: STRING
- guard_status: STRING
- guard_status_enum: STRING
- supplemental_log_data_min: STRING
- supplemental_log_data_min_enum: STRING
- supplemental_log_data_primarykey: STRING
- supplemental_log_data_primarykey_enum: STRING
- supplemental_log_data_uniquekey: STRING
- supplemental_log_data_uniquekey_enum: STRING
- force_logging: STRING
- force_logging_enum: STRING

- platform_id: REAL
- platform_id_enum: STRING
- platform_name: STRING
- recovery_target_incarnation: REAL
- recovery_target_incarnation_enum: STRING
- last_open_incarnation: REAL
- last_open_incarnation_enum: STRING
- current_scn: REAL
- current_scn_enum: STRING
- flashback_on: STRING
- flashback_on_enum: STRING
- supplemental_log_data_foreign_key: STRING
- supplemental_log_data_foreign_key_enum: STRING
- supplemental_log_data_all: STRING
- supplemental_log_data_all_enum: STRING
- database_unique_name: STRING
- standby_became_primary_scn: REAL
- standby_became_primary_scn_enum: STRING
- fs_failover_status: STRING
- fs_failover_target: STRING
- fs_failover_threshold: REAL
- fs_failover_threshold_enum: STRING
- fs_failover_observer_present: STRING
- fs_failover_observer_present_enum: STRING
- fs_failover_observer_host: STRING
- control_file_converted: STRING
- control_file_converted_enum: STRING
- primary_unique_name: STRING
- supplemental_log_data_pl: STRING
- supplemental_log_data_pl_enum: STRING
- min_required_capture_change_number: REAL
- min_required_capture_change_number_enum: STRING
- instance_name: STRING
- server_name: STRING

For events generated by situations in the DG Alert Log Details attribute group, events are sent using the ITM_KRZ_DG_ALERT_LOG_DETAILS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- severity_level: INTEGER
- severity_level_enum: STRING
- instance_name: STRING
- message_category: STRING
- message_number: INTEGER
- message_number_enum: STRING

- message_id: STRING
- message_text: STRING
- message_timestamp: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Alert Log Summary attribute group, events are sent using the ITM_KRZ_DG_ALERT_LOG_SUMMARY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_name: STRING
- alert_log_path: STRING
- alert_log_readable: STRING
- alert_log_readable_enum: STRING
- total_errors_since_startup: INTEGER
- total_errors_since_startup_enum: STRING
- total_warnings_since_startup: INTEGER
- total_warnings_since_startup_enum: STRING
- last_search_timestamp: STRING
- total_errors_for_interval: INTEGER
- total_errors_for_interval_enum: STRING
- total_warnings_for_interval: INTEGER
- total_warnings_for_interval_enum: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Archive Dest attribute group, events are sent using the ITM_KRZ_DG_ARCHIVE_DEST event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- destination_id: REAL
- destination_id_enum: STRING
- destination_name: STRING
- krz_status: STRING
- krz_status_enum: STRING
- binding: STRING
- binding_enum: STRING
- name_space: STRING
- name_space_enum: STRING
- target: STRING
- target_enum: STRING
- archiver: STRING
- schedule: STRING
- destination: STRING
- log_sequence: REAL
- log_sequence_enum: STRING

- reopen_time: REAL
- reopen_time_enum: STRING
- delay_time: REAL
- delay_time_enum: STRING
- max_connections: REAL
- max_connections_enum: STRING
- net_timeout: REAL
- net_timeout_enum: STRING
- process: STRING
- register: STRING
- register_enum: STRING
- fail_date: STRING
- fail_sequence: REAL
- fail_sequence_enum: STRING
- fail_block: REAL
- fail_block_enum: STRING
- failure_count: REAL
- failure_count_enum: STRING
- max_failure: REAL
- max_failure_enum: STRING
- error: STRING
- alternate: STRING
- dependency: STRING
- remote_template: STRING
- quota_size: REAL
- quota_size_enum: STRING
- quota_used: REAL
- quota_used_enum: STRING
- mount_id: REAL
- mount_id_enum: STRING
- transmit_mode: STRING
- transmit_mode_enum: STRING
- async_blocks: REAL
- async_blocks_enum: STRING
- affirm: STRING
- type: STRING
- valid_now: STRING
- valid_now_enum: STRING
- valid_type: STRING
- valid_type_enum: STRING
- valid_role: STRING
- valid_role_enum: STRING
- db_unique_name: STRING
- verify: STRING
- verify_enum: STRING

- compression: STRING
- compression_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Archive Dest and Status attribute group, events are sent using the ITM_KRZ_DG_ARCHIVE_DEST_AND_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- destination_id: REAL
- destination_id_enum: STRING
- destination_name: STRING
- krz_status: STRING
- krz_status_enum: STRING
- database_type: STRING
- database_type_enum: STRING
- database_mode: STRING
- database_mode_enum: STRING
- recovery_mode: STRING
- recovery_mode_enum: STRING
- protection_mode: STRING
- protection_mode_enum: STRING
- destination: STRING
- standby_logfile_count: REAL
- standby_logfile_count_enum: STRING
- standby_logfile_active: REAL
- standby_logfile_active_enum: STRING
- archived_thread_number: REAL
- archived_thread_number_enum: STRING
- archived_sequence_number: REAL
- archived_sequence_number_enum: STRING
- applied_thread_number: REAL
- applied_thread_number_enum: STRING
- applied_sequence_number: REAL
- applied_sequence_number_enum: STRING
- error: STRING
- srl: STRING
- srl_enum: STRING
- db_unique_name: STRING
- synchronization_status: STRING
- synchronization_status_enum: STRING
- synchronized: STRING

- synchronized_enum: STRING
- gap_status: STRING
- gap_status_enum: STRING
- binding: STRING
- binding_enum: STRING
- name_space: STRING
- name_space_enum: STRING
- target: STRING
- target_enum: STRING
- archiver: STRING
- archiver_enum: STRING
- schedule: STRING
- schedule_enum: STRING
- log_sequence: REAL
- log_sequence_enum: STRING
- reopen_secs: REAL
- reopen_secs_enum: STRING
- delay_mins: REAL
- delay_mins_enum: STRING
- max_connections: REAL
- max_connections_enum: STRING
- net_timeout: REAL
- net_timeout_enum: STRING
- process: STRING
- process_enum: STRING
- register: STRING
- register_enum: STRING
- fail_date: STRING
- fail_sequence: REAL
- fail_sequence_enum: STRING
- fail_block: REAL
- fail_block_enum: STRING
- failure_count: REAL
- failure_count_enum: STRING
- max_failure: REAL
- max_failure_enum: STRING
- alternate: STRING
- dependency: STRING
- remote_template: STRING
- quota_size: REAL
- quota_size_enum: STRING
- quota_used: REAL
- quota_used_enum: STRING
- mount_id: REAL
- mount_id_enum: STRING

- transmit_mode: STRING
- transmit_mode_enum: STRING
- async_blocks: REAL
- async_blocks_enum: STRING
- affirm: STRING
- destination_type: STRING
- destination_type_enum: STRING
- valid_now: STRING
- valid_now_enum: STRING
- valid_type: STRING
- valid_type_enum: STRING
- valid_role: STRING
- valid_role_enum: STRING
- verify: STRING
- verify_enum: STRING
- compression: STRING
- compression_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Archive Dest Status attribute group, events are sent using the ITM_KRZ_DG_ARCHIVE_DEST_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- destination_id: REAL
- destination_id_enum: STRING
- destination_name: STRING
- krz_status: STRING
- krz_status_enum: STRING
- type: STRING
- type_enum: STRING
- database_mode: STRING
- database_mode_enum: STRING
- recover_mode: STRING
- recover_mode_enum: STRING
- protection_mode: STRING
- protection_mode_enum: STRING
- destination: STRING
- standby_logfile_count: REAL
- standby_logfile_count_enum: STRING
- standby_logfile_active: REAL
- standby_logfile_active_enum: STRING
- archived_thread: REAL
- archived_thread_enum: STRING

- archived_seq: REAL
- archived_seq_enum: STRING
- applied_thread: REAL
- applied_thread_enum: STRING
- applied_seq: REAL
- applied_seq_enum: STRING
- error: STRING
- standby_redo_log: STRING
- standby_redo_log_enum: STRING
- db_unique_name: STRING
- synchronization_status: STRING
- synchronization_status_enum: STRING
- synchronized: STRING
- synchronized_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Archive Gap attribute group, events are sent using the ITM_KRZ_DG_ARCHIVE_GAP event class. This event class contains the following slots:
- node: STRING
- timestamp: STRING
- thread: REAL
- thread_enum: STRING
- low_sequence: REAL
- low_sequence_enum: STRING
- high_sequence: REAL
- high_sequence_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Archived Log attribute group, events are sent using the ITM_KRZ_DG_ARCHIVED_LOG event class. This event class contains the following slots:
- node: STRING
- timestamp: STRING
- rec_id: REAL
- rec_id_enum: STRING
- stamp: REAL
- stamp_enum: STRING
- name: STRING
- destination_id: REAL
- destination_id_enum: STRING
- thread: REAL
- thread_enum: STRING
- sequence: REAL

- sequence_enum: STRING
- resetlogs_change: REAL
- resetlogs_change_enum: STRING
- resetlogs_time: STRING
- resetlog_id: REAL
- resetlog_id_enum: STRING
- first_change: REAL
- first_change_enum: STRING
- first_time: STRING
- next_change: REAL
- next_change_enum: STRING
- next_time: STRING
- blocks: REAL
- blocks_enum: STRING
- block_size: REAL
- block_size_enum: STRING
- creator: STRING
- creator_enum: STRING
- registrar: STRING
- registrar_enum: STRING
- standby_destination: STRING
- standby_destination_enum: STRING
- archived: STRING
- archived_enum: STRING
- applied: STRING
- applied_enum: STRING
- deleted: STRING
- deleted_enum: STRING
- krz_status: STRING
- krz_status_enum: STRING
- completion_time: STRING
- dictionary_begin: STRING
- dictionary_begin_enum: STRING
- dictionary_end: STRING
- dictionary_end_enum: STRING
- end_of_redo: STRING
- end_of_redo_enum: STRING
- backup_count: REAL
- backup_count_enum: STRING
- archival_thread: REAL
- archival_thread_enum: STRING
- activation: REAL
- activation_enum: STRING
- is_recovery_dest_file: STRING
- is_recovery_dest_file_enum: STRING

- compressed: STRING
- fal: STRING
- fal_enum: STRING
- end_of_redo_type: STRING
- end_of_redo_type_enum: STRING
- backed_by_vss: STRING
- backed_by_vss_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG BGProcess Stats attribute group, events are sent using the ITM_KRZ_DG_BGPROCESS_STATS event class. This event class contains the following slots:
- node: STRING
- timestamp: STRING
- process_name: STRING
- process_count: INTEGER
- process_count_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Customized SQL Detail attribute group, events are sent using the ITM_KRZ_DG_CUSTOMIZED_SQL_DETAIL event class. This event class contains the following slots:
- node: STRING
- timestamp: STRING
- sql_id: STRING
- string_name_1: STRING
- string_value_1: STRING
- string_name_2: STRING
- string_value_2: STRING
- string_name_3: STRING
- string_value_3: STRING
- string_name_4: STRING
- string_value_4: STRING
- string_name_5: STRING
- string_value_5: STRING
- number_name_1: STRING
- number_value_1: REAL
- number_value_1_enum: STRING
- number_name_2: STRING
- number_value_2: REAL
- number_value_2_enum: STRING
- number_name_3: STRING
- number_value_3: REAL

- number_value_3_enum: STRING
- number_name_4: STRING
- number_value_4: REAL
- number_value_4_enum: STRING
- number_name_5: STRING
- number_value_5: REAL
- number_value_5_enum: STRING
- datetime_name_1: STRING
- datetime_value_1: STRING
- datetime_name_2: STRING
- datetime_value_2: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Customized SQL Summary attribute group, events are sent using the ITM_KRZ_DG_CUSTOMIZED_SQL_SUMMARY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- customized_definition_file: STRING
- last_modified_time: STRING
- sql_id: STRING
- sql_content: STRING
- last_execution_error_code: INTEGER
- last_execution_error_code_enum: STRING
- last_execution_error_message: STRING
- last_execution_time: STRING
- sql_timeout: INTEGER
- sql_timeout_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Database Overview attribute group, events are sent using the ITM_KRZ_DG_DATABASE_OVERVIEW event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- database_id: REAL
- database_id_enum: STRING
- database_name: STRING
- creation_datetime: STRING
- resetlogs_change_number: REAL
- resetlogs_change_number_enum: STRING
- resetlogs_time: STRING
- prior_resetlogs_change_number: REAL

- prior_resetlogs_change_number_enum: STRING
- prior_resetlogs_time: STRING
- archive_log_mode: STRING
- checkpoint_change_number: REAL
- checkpoint_change_number_enum: STRING
- archive_change_number: REAL
- archive_change_number_enum: STRING
- controlfile_type: STRING
- controlfile_create_time: STRING
- controlfile_sequence_number: REAL
- controlfile_sequence_number_enum: STRING
- controlfile_change_number: REAL
- controlfile_change_number_enum: STRING
- last_controlfile_time: STRING
- open_resetlogs: STRING
- version_time: STRING
- open_mode: STRING
- open_mode_enum: STRING
- protection_mode: STRING
- protection_level: STRING
- remote_archive: STRING
- remote_archive_enum: STRING
- activation_number: REAL
- activation_number_enum: STRING
- switchover_number: REAL
- switchover_number_enum: STRING
- database_role: STRING
- database_role_enum: STRING
- archivelog_change_number: REAL
- archivelog_change_number_enum: STRING
- archivelog_compression: STRING
- archivelog_compression_enum: STRING
- switchover_status: STRING
- dataguard_broker: STRING
- dataguard_broker_enum: STRING
- guard_status: STRING
- guard_status_enum: STRING
- supplemental_log_data_min: STRING
- supplemental_log_data_min_enum: STRING
- supplemental_log_data_primarykey: STRING
- supplemental_log_data_primarykey_enum: STRING
- supplemental_log_data_uniquekey: STRING
- supplemental_log_data_uniquekey_enum: STRING
- force_logging: STRING
- force_logging_enum: STRING

- platform_id: REAL
- platform_id_enum: STRING
- platform_name: STRING
- recovery_target_incarnation: REAL
- recovery_target_incarnation_enum: STRING
- last_open_incarnation: REAL
- last_open_incarnation_enum: STRING
- current_scn: REAL
- current_scn_enum: STRING
- flashback_on: STRING
- flashback_on_enum: STRING
- supplemental_log_data_foreign_key: STRING
- supplemental_log_data_foreign_key_enum: STRING
- supplemental_log_data_all: STRING
- supplemental_log_data_all_enum: STRING
- database_unique_name: STRING
- standby_became_primary_scn: REAL
- standby_became_primary_scn_enum: STRING
- fs_failover_status: STRING
- fs_failover_target: STRING
- fs_failover_threshold: REAL
- fs_failover_threshold_enum: STRING
- fs_failover_observer_present: STRING
- fs_failover_observer_present_enum: STRING
- fs_failover_observer_host: STRING
- control_file_converted: STRING
- control_file_converted_enum: STRING
- primary_unique_name: STRING
- supplemental_log_data_pl: STRING
- supplemental_log_data_pl_enum: STRING
- min_required_capture_change_number: REAL
- min_required_capture_change_number_enum: STRING
- instance_name: STRING
- server_name: STRING

For events generated by situations in the DG DataFile attribute group, events are sent using the ITM_KRZ_DG_DATAFILE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- file_id: REAL
- file_id_enum: STRING
- name: STRING
- tablespace_name: STRING
- creation_change: REAL
- creation_change_enum: STRING

- creation_time: STRING
- tablespace_number: REAL
- tablespace_number_enum: STRING
- relative_number: REAL
- relative_number_enum: STRING
- krz_status: STRING
- krz_status_enum: STRING
- enabled: STRING
- enabled_enum: STRING
- checkpoint_change_number: REAL
- checkpoint_change_number_enum: STRING
- checkpoint_time: STRING
- unrecoverable_change_time: REAL
- unrecoverable_change_time_enum: STRING
- unrecoverable_time: STRING
- last_change: REAL
- last_change_enum: STRING
- last_time: STRING
- offline_change_number: REAL
- offline_change_number_enum: STRING
- online_change_number: REAL
- online_change_number_enum: STRING
- online_time: STRING
- size_bytes: REAL
- size_bytes_enum: STRING
- size_mb: REAL
- size_mb_enum: STRING
- blocks: REAL
- blocks_enum: STRING
- create_bytes: REAL
- create_bytes_enum: STRING
- block_size: REAL
- block_size_enum: STRING
- plugged_in: REAL
- plugged_in_enum: STRING
- block_offset: REAL
- block_offset_enum: STRING
- auxiliary_name: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Disk Space attribute group, events are sent using the ITM_KRZ_DG_DISK_SPACE event class. This event class contains the following slots:

- node: STRING

- timestamp: STRING
- instance_name: STRING
- is_local: STRING
- is_local_enum: STRING
- owner_type: STRING
- owner_type_enum: STRING
- owner: STRING
- path: STRING
- free_size_bytes: REAL
- free_size_bytes_enum: STRING
- free_size_mb: REAL
- free_size_mb_enum: STRING
- total_size_bytes: REAL
- total_size_bytes_enum: STRING
- total_size_mb: REAL
- total_size_mb_enum: STRING
- percentage_free: REAL
- percentage_free_enum: STRING
- used_size_bytes: REAL
- used_size_bytes_enum: STRING
- used_size_mb: REAL
- used_size_mb_enum: STRING

For events generated by situations in the DG Latest Archived Log attribute group, events are sent using the ITM_KRZ_DG_LATEST_ARCHIVED_LOG event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- rec_id: REAL
- rec_id_enum: STRING
- stamp: REAL
- stamp_enum: STRING
- name: STRING
- destination_id: REAL
- destination_id_enum: STRING
- thread: REAL
- thread_enum: STRING
- sequence: REAL
- sequence_enum: STRING
- resetlogs_change: REAL
- resetlogs_change_enum: STRING
- resetlogs_time: STRING
- resetlog_id: REAL
- resetlog_id_enum: STRING
- first_change: REAL
- first_change_enum: STRING

- first_time: STRING
- next_change: REAL
- next_change_enum: STRING
- next_time: STRING
- blocks: REAL
- blocks_enum: STRING
- block_size: REAL
- block_size_enum: STRING
- creator: STRING
- creator_enum: STRING
- registrar: STRING
- registrar_enum: STRING
- standby_destination: STRING
- standby_destination_enum: STRING
- archived: STRING
- archived_enum: STRING
- applied: STRING
- applied_enum: STRING
- deleted: STRING
- deleted_enum: STRING
- krz_status: STRING
- krz_status_enum: STRING
- completion_time: STRING
- dictionary_begin: STRING
- dictionary_begin_enum: STRING
- dictionary_end: STRING
- dictionary_end_enum: STRING
- end_of_redo: STRING
- end_of_redo_enum: STRING
- backup_count: REAL
- backup_count_enum: STRING
- archival_thread: REAL
- archival_thread_enum: STRING
- activation: REAL
- activation_enum: STRING
- is_recovery_dest_file: STRING
- is_recovery_dest_file_enum: STRING
- compressed: STRING
- compressed_enum: STRING
- fal: STRING
- fal_enum: STRING
- end_of_redo_type: STRING
- end_of_redo_type_enum: STRING
- backed_by_vss: STRING
- backed_by_vss_enum: STRING

- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Log attribute group, events are sent using the ITM_KRZ_DG_LOG event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- group: REAL
- group_enum: STRING
- thread: REAL
- thread_enum: STRING
- sequence: REAL
- sequence_enum: STRING
- bytes: REAL
- bytes_enum: STRING
- mbytes: REAL
- mbytes_enum: STRING
- members: REAL
- members_enum: STRING
- archived: STRING
- archived_enum: STRING
- krz_status: STRING
- krz_status_enum: STRING
- first_change: REAL
- first_change_enum: STRING
- first_time: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Log History attribute group, events are sent using the ITM_KRZ_DG_LOG_HISTORY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- record_id: REAL
- record_id_enum: STRING
- stamp: REAL
- stamp_enum: STRING
- thread: REAL
- thread_enum: STRING
- sequence: REAL
- sequence_enum: STRING
- frist_change: REAL
- frist_change_enum: STRING
- first_time: STRING

- next_change: REAL
- next_change_enum: STRING
- resetlogs_change: REAL
- resetlogs_change_enum: STRING
- resetlogs_time: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Log History Stat attribute group, events are sent using the ITM_KRZ_DG_LOG_HISTORY_STAT event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- krz_date: STRING
- am12: REAL
- am12_enum: STRING
- am01: REAL
- am01_enum: STRING
- am02: REAL
- am02_enum: STRING
- am03: REAL
- am03_enum: STRING
- am04: REAL
- am04_enum: STRING
- am05: REAL
- am05_enum: STRING
- am06: REAL
- am06_enum: STRING
- am07: REAL
- am07_enum: STRING
- am08: REAL
- am08_enum: STRING
- am09: REAL
- am09_enum: STRING
- am10: REAL
- am10_enum: STRING
- am11: REAL
- am11_enum: STRING
- pm12: REAL
- pm12_enum: STRING
- pm01: REAL
- pm01_enum: STRING
- pm02: REAL
- pm02_enum: STRING
- pm03: REAL

- pm03_enum: STRING
- pm04: REAL
- pm04_enum: STRING
- pm05: REAL
- pm05_enum: STRING
- pm06: REAL
- pm06_enum: STRING
- pm07: REAL
- pm07_enum: STRING
- pm08: REAL
- pm08_enum: STRING
- pm09: REAL
- pm09_enum: STRING
- pm10: REAL
- pm10_enum: STRING
- pm11: REAL
- pm11_enum: STRING
- total: REAL
- total_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Logfile attribute group, events are sent using the ITM_KRZ_DG_LOGFILE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- group: REAL
- group_enum: STRING
- krz_status: STRING
- krz_status_enum: STRING
- type: STRING
- type_enum: STRING
- member: STRING
- is_recovery_dest_file: STRING
- is_recovery_dest_file_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Logstdby Process attribute group, events are sent using the ITM_KRZ_DG_LOGSTDBY_PROCESS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- session_id: REAL
- session_id_enum: STRING

- serial: REAL
- serial_enum: STRING
- logstdby_id: REAL
- logstdby_id_enum: STRING
- spid: STRING
- type: STRING
- type_enum: STRING
- status_code: REAL
- status_code_enum: STRING
- krz_status: STRING
- high_scn: REAL
- high_scn_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Logstdby Process Stat attribute group, events are sent using the ITM_KRZ_DG_LOGSTDBY_PROCESS_STAT event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- database_name: STRING
- database_role: STRING
- applier_count: INTEGER
- applier_count_enum: STRING
- analyzer_count: INTEGER
- analyzer_count_enum: STRING
- reader_count: INTEGER
- reader_count_enum: STRING
- builder_count: INTEGER
- builder_count_enum: STRING
- preparer_count: INTEGER
- preparer_count_enum: STRING
- coordinator_count: INTEGER
- coordinator_count_enum: STRING
- instance_name: STRING
- server_name: STRING

For events generated by situations in the DG Logstdby Progress attribute group, events are sent using the ITM_KRZ_DG_LOGSTDBY_PROGRESS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- applied_scn: REAL
- applied_scn_enum: STRING
- applied_time: STRING
- restart_scn: REAL
- restart_scn_enum: STRING

- restart_time: STRING
- latest_scn: REAL
- latest_scn_enum: STRING
- latest_time: STRING
- mining_scn: REAL
- mining_scn_enum: STRING
- mining_time: STRING
- apply_lag: REAL
- apply_lag_enum: STRING
- redo_lag: REAL
- redo_lag_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Logstdby State attribute group, events are sent using the ITM_KRZ_DG_LOGSTDBY_STATE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- primary_dbid: REAL
- primary_dbid_enum: STRING
- session_id: REAL
- session_id_enum: STRING
- realtime_apply: STRING
- state: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Logstdby Statistics attribute group, events are sent using the ITM_KRZ_DG_LOGSTDBY_STATISTICS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- database_name: STRING
- database_unique_name: STRING
- received_transactions: REAL
- received_transactions_enum: STRING
- assigned_transactions: REAL
- assigned_transactions_enum: STRING
- applied_transactions: REAL
- applied_transactions_enum: STRING
- discarded_transactions: REAL
- discarded_transactions_enum: STRING
- rolled_back_transactions: REAL
- rolled_back_transactions_enum: STRING
- ddl_transactions_mined: REAL

- ddl_transactions_mined_enum: STRING
- ctas_transaction_mined: REAL
- ctas_transaction_mined_enum: STRING
- waiting_transactions: REAL
- waiting_transactions_enum: STRING
- redo_mined_bytes: REAL
- redo_mined_bytes_enum: STRING
- redo_mined: REAL
- redo_mined_enum: STRING
- page_out: REAL
- page_out_enum: STRING
- page_out_time: REAL
- page_out_time_enum: STRING
- idle_time: REAL
- idle_time_enum: STRING
- redo_log_mined: REAL
- redo_log_mined_enum: STRING
- archived_log_mined: REAL
- archived_log_mined_enum: STRING
- logfile_wait: REAL
- logfile_wait_enum: STRING
- total_logfile_wait: REAL
- total_logfile_wait_enum: STRING
- instance_name: STRING
- server_name: STRING

For events generated by situations in the DG Logstdby Stats attribute group, events are sent using the ITM_KRZ_DG_LOGSTDBY_STATS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- name: STRING
- krz_value: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Managed Standby attribute group, events are sent using the ITM_KRZ_DG_MANAGED_STANDBY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- process: STRING
- pid: REAL
- pid_enum: STRING
- krz_status: STRING
- krz_status_enum: STRING
- client_process: STRING

- client_pid: STRING
- client_dbid: STRING
- group: STRING
- resetlogs_id: REAL
- resetlogs_id_enum: STRING
- thread: REAL
- thread_enum: STRING
- sequence: REAL
- sequence_enum: STRING
- block: REAL
- block_enum: STRING
- blocks: REAL
- blocks_enum: STRING
- delay_minutes: REAL
- delay_minutes_enum: STRING
- known_agents: REAL
- known_agents_enum: STRING
- active_agents: REAL
- active_agents_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Managed Standby Stat attribute group, events are sent using the ITM_KRZ_DG_MANAGED_STANDBY_STAT event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- database_name: STRING
- database_role: STRING
- rfs_count: INTEGER
- rfs_count_enum: STRING
- archiver_count: INTEGER
- archiver_count_enum: STRING
- mrp_count: INTEGER
- mrp_count_enum: STRING
- instance_name: STRING
- server_name: STRING

For events generated by situations in the DG Parameter attribute group, events are sent using the ITM_KRZ_DG_PARAMETER event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- parameter_number: REAL

- parameter_number_enum: STRING
- parameter_name: STRING
- parameter_type: REAL
- parameter_type_enum: STRING
- krz_value: STRING
- display_value: STRING
- is_default: STRING
- is_default_enum: STRING
- is_session_modifiable: STRING
- is_session_modifiable_enum: STRING
- is_system_modifiable: STRING
- is_system_modifiable_enum: STRING
- is_instance_modifiable: STRING
- is_instance_modifiable_enum: STRING
- is_modified: STRING
- is_modified_enum: STRING
- is_adjusted: STRING
- is_adjusted_enum: STRING
- is_deprecated: STRING
- is_deprecated_enum: STRING
- is_basic: STRING
- is_basic_enum: STRING
- description: STRING
- update_comments: STRING
- hash: REAL
- hash_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Performance Object Status attribute group, events are sent using the ITM_KRZ_DG_PERFORMANCE_OBJECT_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- query_name: STRING
- object_name: STRING
- object_type: INTEGER
- object_type_enum: STRING
- object_status: INTEGER
- object_status_enum: STRING
- error_code: INTEGER
- error_code_enum: STRING

For events generated by situations in the DG Recovery Progress attribute group, events are sent using the ITM_KRZ_DG_RECOVERY_PROGRESS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- database_name: STRING
- database_unique_name: STRING
- log_files: REAL
- log_files_enum: STRING
- active_apply_rate: REAL
- active_apply_rate_enum: STRING
- average_apply_rate: REAL
- average_apply_rate_enum: STRING
- redo_applied: REAL
- redo_applied_enum: STRING
- last_applied_redo: REAL
- last_applied_redo_enum: STRING
- active_time: REAL
- active_time_enum: STRING
- apply_time_per_log: REAL
- apply_time_per_log_enum: STRING
- checkpoint_time_per_log: REAL
- checkpoint_time_per_log_enum: STRING
- elapsed_time: REAL
- elapsed_time_enum: STRING
- last_applied_redo_time: STRING
- instance_name: STRING
- server_name: STRING

For events generated by situations in the DG Standby Log attribute group, events are sent using the ITM_KRZ_DG_STANDBY_LOG event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- group: REAL
- group_enum: STRING
- dbid: STRING
- thread: REAL
- thread_enum: STRING
- sequence: REAL
- sequence_enum: STRING
- bytes: REAL
- bytes_enum: STRING
- mbytes: REAL
- mbytes_enum: STRING
- used: REAL
- used_enum: STRING
- free: REAL
- free_enum: STRING

- archived: STRING
- archived_enum: STRING
- krz_status: STRING
- krz_status_enum: STRING
- first_change: REAL
- first_change_enum: STRING
- first_time: STRING
- last_change: REAL
- last_change_enum: STRING
- last_time: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the DG Stats attribute group, events are sent using the ITM_KRZ_DG_STATS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- database_name: STRING
- database_unique_name: STRING
- apply_lag: REAL
- apply_lag_enum: STRING
- transport_lag: REAL
- transport_lag_enum: STRING
- apply_finish_time: REAL
- apply_finish_time_enum: STRING
- estimated_startup_time: STRING
- standby_open: STRING
- instance_name: STRING
- server_name: STRING

For events generated by situations in the DG Status attribute group, events are sent using the ITM_KRZ_DG_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- facility: STRING
- krz_severity: STRING
- krz_severity_enum: STRING
- destination_id: REAL
- destination_id_enum: STRING
- message_num: REAL
- message_num_enum: STRING
- error_code: REAL
- error_code_enum: STRING
- callout: STRING
- message_timestamp: STRING

- message: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the Monitored Databases attribute group, events are sent using the ITM_KRZ_MONITORED_DATABASES event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- subnode_msn: STRING
- subnode_affinity: STRING
- subnode_type: STRING
- subnode_resource_name: STRING
- subnode_version: STRING

For events generated by situations in the Performance Object Status attribute group, events are sent using the ITM_KRZ_PERFORMANCE_OBJECT_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- query_name: STRING
- object_name: STRING
- object_type: INTEGER
- object_type_enum: STRING
- object_status: INTEGER
- object_status_enum: STRING
- error_code: INTEGER
- error_code_enum: STRING

For events generated by situations in the RDB Active Instance attribute group, events are sent using the ITM_KRZ_RDB_ACTIVE_INSTANCE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- sid: STRING
- instance_id: STRING
- instance_name: STRING
- compatible_version: STRING
- krz_status: STRING
- krz_status_enum: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Alert Log Details attribute group, events are sent using the ITM_KRZ_RDB_ALERT_LOG_DETAILS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- severity_level: INTEGER

- severity_level_enum: STRING
- instance_name: STRING
- message_category: STRING
- message_number: INTEGER
- message_number_enum: STRING
- message_id: STRING
- message_text: STRING
- message_timestamp: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Alert Log Summary attribute group, events are sent using the ITM_KRZ_RDB_ALERT_LOG_SUMMARY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_name: STRING
- alert_log_path: STRING
- alert_log_readable: STRING
- alert_log_readable_enum: STRING
- total_errors_since_startup: INTEGER
- total_errors_since_startup_enum: STRING
- total_warnings_since_startup: INTEGER
- total_warnings_since_startup_enum: STRING
- last_search_timestamp: STRING
- total_errors_for_interval: INTEGER
- total_errors_for_interval_enum: STRING
- total_warnings_for_interval: INTEGER
- total_warnings_for_interval_enum: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Archive Dest attribute group, events are sent using the ITM_KRZ_RDB_ARCHIVE_DEST event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- destination_id: REAL
- destination_id_enum: STRING
- destination_name: STRING
- destination_status: STRING
- destination_status_enum: STRING
- target: STRING
- target_enum: STRING
- archiver: STRING
- archiver_enum: STRING

- schedule: STRING
- schedule_enum: STRING
- destination: STRING
- log_sequence: REAL
- log_sequence_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Archive Overview attribute group, events are sent using the ITM_KRZ_RDB_ARCHIVE_OVERVIEW event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- group_number: REAL
- group_number_enum: STRING
- thread_number: REAL
- thread_number_enum: STRING
- sequence_number: REAL
- sequence_number_enum: STRING
- log_size_kb: REAL
- log_size_kb_enum: STRING
- log_size_mb: REAL
- log_size_mb_enum: STRING
- number_of_members: REAL
- number_of_members_enum: STRING
- archive_status: STRING
- archive_status_enum: STRING
- log_status: STRING
- log_status_enum: STRING
- lowest_system_change_number: REAL
- lowest_system_change_number_enum: STRING
- first_scn_time: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB ASM Client attribute group, events are sent using the ITM_KRZ_RDB_ASM_CLIENT event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- group_number: REAL
- group_number_enum: STRING

- instance_name: STRING
- database_name: STRING
- client_status: STRING
- client_status_enum: STRING
- software_version: STRING
- compatible_version: STRING
- asm_instance_name: STRING
- server_name: STRING
- asm_database_name: STRING

For events generated by situations in the RDB ASM Disk attribute group, events are sent using the ITM_KRZ_RDB_ASM_DISK event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- group_number: REAL
- group_number_enum: STRING
- disk_number: REAL
- disk_number_enum: STRING
- disk_id: STRING
- compound_index: REAL
- compound_index_enum: STRING
- incarnation_number: REAL
- incarnation_number_enum: STRING
- mount_status: STRING
- header_status: STRING
- mode_status: STRING
- mode_status_enum: STRING
- disk_state: STRING
- redundancy: STRING
- library_name: STRING
- total_capacity_mb: REAL
- total_capacity_mb_enum: STRING
- unused_capacity_mb: REAL
- unused_capacity_mb_enum: STRING
- disk_size_mb: REAL
- disk_size_mb_enum: STRING
- free_percent: REAL
- free_percent_enum: STRING
- disk_name: STRING
- failure_group: STRING
- label: STRING
- path: STRING
- udid: STRING

- product: STRING
- create_date: STRING
- mount_date: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB ASM DiskGroup attribute group, events are sent using the ITM_KRZ_RDB_ASM_DISKGROUP event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- group_number: REAL
- group_number_enum: STRING
- group_id: STRING
- name: STRING
- sector_size_bytes: REAL
- sector_size_bytes_enum: STRING
- block_size_bytes: REAL
- block_size_bytes_enum: STRING
- allocation_unit_size_bytes: REAL
- allocation_unit_size_bytes_enum: STRING
- state: STRING
- state_enum: STRING
- type: STRING
- total_capacity_mb: REAL
- total_capacity_mb_enum: STRING
- free_capacity_mb: REAL
- free_capacity_mb_enum: STRING
- free_percent: REAL
- free_percent_enum: STRING
- required_capacity_mb: REAL
- required_capacity_mb_enum: STRING
- usable_capacity_mb: REAL
- usable_capacity_mb_enum: STRING
- usable_percent: REAL
- usable_percent_enum: STRING
- offline_disk_number: REAL
- offline_disk_number_enum: STRING
- unbalanced: STRING
- compatibility: STRING
- database_compatibility: STRING
- instance_name: STRING
- server_name: STRING

- database_name: STRING

For events generated by situations in the RDB ASM DiskGroupIOSTAT attribute group, events are sent using the ITM_KRZ_RDB_ASM_DISKGROUPIOSTAT event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- group_number: REAL
- group_number_enum: STRING
- group_id: STRING
- group_name: STRING
- read_request: REAL
- read_request_enum: STRING
- write_request: REAL
- write_request_enum: STRING
- read_error: REAL
- read_error_enum: STRING
- write_error: REAL
- write_error_enum: STRING
- read_time_ms: REAL
- read_time_ms_enum: STRING
- write_time_ms: REAL
- write_time_ms_enum: STRING
- total_read_bytes: REAL
- total_read_bytes_enum: STRING
- total_read_kb: REAL
- total_read_kb_enum: STRING
- total_read_mb: REAL
- total_read_mb_enum: STRING
- total_written_bytes: REAL
- total_written_bytes_enum: STRING
- total_written_kb: REAL
- total_written_kb_enum: STRING
- total_written_mb: REAL
- total_written_mb_enum: STRING
- response_time_ms: REAL
- response_time_ms_enum: STRING
- average_read_time_ms: REAL
- average_read_time_ms_enum: STRING
- average_write_time_ms: REAL
- average_write_time_ms_enum: STRING
- disk_read_bytes_ms: REAL
- disk_read_bytes_ms_enum: STRING
- disk_read_kb_ms: REAL

- disk_read_kb_ms_enum: STRING
- disk_read_mb_ms: REAL
- disk_read_mb_ms_enum: STRING
- disk_written_bytes_ms: REAL
- disk_written_bytes_ms_enum: STRING
- disk_written_kb_ms: REAL
- disk_written_kb_ms_enum: STRING
- disk_written_mb_ms: REAL
- disk_written_mb_ms_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB ASM DiskIOSTAT attribute group, events are sent using the ITM_KRZ_RDB_ASM_DISKIOSTAT event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- group_number: REAL
- group_number_enum: STRING
- disk_number: REAL
- disk_number_enum: STRING
- disk_id: STRING
- read_request: REAL
- read_request_enum: STRING
- write_request: REAL
- write_request_enum: STRING
- read_error: REAL
- read_error_enum: STRING
- write_error: REAL
- write_error_enum: STRING
- read_time_ms: REAL
- read_time_ms_enum: STRING
- write_time_ms: REAL
- write_time_ms_enum: STRING
- total_read_bytes: REAL
- total_read_bytes_enum: STRING
- total_read_kb: REAL
- total_read_kb_enum: STRING
- total_read_mb: REAL
- total_read_mb_enum: STRING
- total_written_bytes: REAL
- total_written_bytes_enum: STRING
- total_written_kb: REAL

- total_written_kb_enum: STRING
- total_written_mb: REAL
- total_written_mb_enum: STRING
- response_time_ms: REAL
- response_time_ms_enum: STRING
- average_read_time_ms: REAL
- average_read_time_ms_enum: STRING
- average_write_time_ms: REAL
- average_write_time_ms_enum: STRING
- disk_read_bytes_ms: REAL
- disk_read_bytes_ms_enum: STRING
- disk_read_kb_ms: REAL
- disk_read_kb_ms_enum: STRING
- disk_read_mb_ms: REAL
- disk_read_mb_ms_enum: STRING
- disk_written_bytes_ms: REAL
- disk_written_bytes_ms_enum: STRING
- disk_written_kb_ms: REAL
- disk_written_kb_ms_enum: STRING
- disk_written_mb_ms: REAL
- disk_written_mb_ms_enum: STRING
- disk_name: STRING
- failure_group: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB ASM Template attribute group, events are sent using the ITM_KRZ_RDB_ASM_TEMPLATE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- group_number: REAL
- group_number_enum: STRING
- entry_number: REAL
- entry_number_enum: STRING
- redundancy: STRING
- stripe_type: STRING
- system: STRING
- template_name: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB BGProcess Stats attribute group, events are sent using the ITM_KRZ_RDB_BGPROCESS_STATS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- process_name: STRING
- process_count: INTEGER
- process_count_enum: STRING
- instance_id: INTEGER
- instance_id_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Buffer Cache Detail attribute group, events are sent using the ITM_KRZ_RDB_BUFFER_CACHE_DETAIL event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- buffer_pool_id: REAL
- buffer_pool_id_enum: STRING
- buffer_pool_name: STRING
- maximum_set_size: REAL
- maximum_set_size_enum: STRING
- replace_number: REAL
- replace_number_enum: STRING
- write_number: REAL
- write_number_enum: STRING
- set_number: REAL
- set_number_enum: STRING
- gotten_number: REAL
- gotten_number_enum: STRING
- written_number: REAL
- written_number_enum: STRING
- scanned_number: REAL
- scanned_number_enum: STRING
- free_wait: REAL
- free_wait_enum: STRING
- write_wait: REAL
- write_wait_enum: STRING
- busy_wait: REAL
- busy_wait_enum: STRING
- free_inspected: REAL
- free_inspected_enum: STRING
- dirty_inspected: REAL
- dirty_inspected_enum: STRING

- blocks_changed: REAL
- blocks_changed_enum: STRING
- blocks_gotten: REAL
- blocks_gotten_enum: STRING
- consistent_gets: REAL
- consistent_gets_enum: STRING
- physical_reads: REAL
- physical_reads_enum: STRING
- physical_writes: REAL
- physical_writes_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Buffer Cache Ratio attribute group, events are sent using the ITM_KRZ_RDB_BUFFER_CACHE_RATIO event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- physical_reads: REAL
- physical_reads_enum: STRING
- database_block_gets: REAL
- database_block_gets_enum: STRING
- consistent_gets: REAL
- consistent_gets_enum: STRING
- buffer_cache_hit_ratio: REAL
- buffer_cache_hit_ratio_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Cache Fusion Write attribute group, events are sent using the ITM_KRZ_RDB_CACHE_FUSION_WRITE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- instance_name: STRING
- dbwr_fusion_write: REAL
- dbwr_fusion_write_enum: STRING
- physical_writes: REAL
- physical_writes_enum: STRING
- ratio_fusion_against_physical_write: REAL
- ratio_fusion_against_physical_write_enum: STRING
- server_name: STRING

- database_name: STRING

For events generated by situations in the RDB Cluster AVG BLKS attribute group, events are sent using the ITM_KRZ_RDB_CLUSTER_AVG_BLKS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- owner: STRING
- cluster_name: STRING
- tablespace_name: STRING
- average_blocks_per_key: REAL
- average_blocks_per_key_enum: STRING
- show_name: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Cluster Size attribute group, events are sent using the ITM_KRZ_RDB_CLUSTER_SIZE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- owner: STRING
- cluster_name: STRING
- tablespace_name: STRING
- cluster_size_bytes: REAL
- cluster_size_bytes_enum: STRING
- cluster_size_kb: REAL
- cluster_size_kb_enum: STRING
- cluster_size_mb: REAL
- cluster_size_mb_enum: STRING
- show_name: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Clusters attribute group, events are sent using the ITM_KRZ_RDB_CLUSTERS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- owner: STRING
- cluster_name: STRING
- tablespace_name: STRING
- pct_free: REAL
- pct_free_enum: STRING
- pct_used: REAL
- pct_used_enum: STRING
- key_size: REAL
- key_size_enum: STRING

- initial_transactions: REAL
- initial_transactions_enum: STRING
- max_transactions: REAL
- max_transactions_enum: STRING
- initial_extent_size_bytes: REAL
- initial_extent_size_bytes_enum: STRING
- initial_extent_size_kb: REAL
- initial_extent_size_kb_enum: STRING
- initial_extent_size_mb: REAL
- initial_extent_size_mb_enum: STRING
- next_extent_size_bytes: REAL
- next_extent_size_bytes_enum: STRING
- next_extent_size_kb: REAL
- next_extent_size_kb_enum: STRING
- next_extent_size_mb: REAL
- next_extent_size_mb_enum: STRING
- min_extents: REAL
- min_extents_enum: STRING
- max_extents: REAL
- max_extents_enum: STRING
- increase_percentage: REAL
- increase_percentage_enum: STRING
- freelists: REAL
- freelists_enum: STRING
- freelists_groups: REAL
- freelists_groups_enum: STRING
- average_blocks_per_key: REAL
- average_blocks_per_key_enum: STRING
- cluster_type: STRING
- cluster_type_enum: STRING
- function: STRING
- hash_keys: REAL
- hash_keys_enum: STRING
- degree: STRING
- instances: STRING
- cache: STRING
- cache_enum: STRING
- buffer_pool: STRING
- buffer_pool_enum: STRING
- single_table: STRING
- single_table_enum: STRING
- dependencies: STRING
- dependencies_enum: STRING
- instance_name: STRING
- server_name: STRING

- database_name: STRING

For events generated by situations in the RDB Customized SQL Detail attribute group, events are sent using the ITM_KRZ_RDB_CUSTOMIZED_SQL_DETAIL event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- sql_id: STRING
- string_name_1: STRING
- string_value_1: STRING
- string_name_2: STRING
- string_value_2: STRING
- string_name_3: STRING
- string_value_3: STRING
- string_name_4: STRING
- string_value_4: STRING
- string_name_5: STRING
- string_value_5: STRING
- number_name_1: STRING
- number_value_1: REAL
- number_value_1_enum: STRING
- number_name_2: STRING
- number_value_2: REAL
- number_value_2_enum: STRING
- number_name_3: STRING
- number_value_3: REAL
- number_value_3_enum: STRING
- number_name_4: STRING
- number_value_4: REAL
- number_value_4_enum: STRING
- number_name_5: STRING
- number_value_5: REAL
- number_value_5_enum: STRING
- datetime_name_1: STRING
- datetime_value_1: STRING
- datetime_name_2: STRING
- datetime_value_2: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Customized SQL Summary attribute group, events are sent using the ITM_KRZ_RDB_CUSTOMIZED_SQL_SUMMARY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING

- customized_definition_file: STRING
- last_modified_time: STRING
- sql_id: STRING
- sql_content: STRING
- last_execution_error_code: INTEGER
- last_execution_error_code_enum: STRING
- last_execution_error_message: STRING
- last_execution_time: STRING
- sql_timeout: INTEGER
- sql_timeout_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Database Statistics Summary attribute group, events are sent using the ITM_KRZ_RDB_DATABASE_STATISTICS_SUMMARY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: INTEGER
- instance_id_enum: STRING
- continued_row_percentage: REAL
- continued_row_percentage_enum: STRING
- average_redo_size: REAL
- average_redo_size_enum: STRING
- recursive_call_percentage: REAL
- recursive_call_percentage_enum: STRING
- changed_block_percentage: REAL
- changed_block_percentage_enum: STRING
- cluster_key_ratio: REAL
- cluster_key_ratio_enum: STRING
- consistent_change_percentage: REAL
- consistent_change_percentage_enum: STRING
- row_source_percentage: REAL
- row_source_percentage_enum: STRING
- pga_optimal_percentage: REAL
- pga_optimal_percentage_enum: STRING
- lock_hit_percentage: REAL
- lock_hit_percentage_enum: STRING
- block_visits_per_transaction: REAL
- block_visits_per_transaction_enum: STRING
- redo_log_space_wait_ratio: REAL
- redo_log_space_wait_ratio_enum: STRING
- user_calls_per_parse_ratio: REAL
- user_calls_per_parse_ratio_enum: STRING
- short_to_long_table_scans_percentage: REAL

- short_to_long_table_scans_percentage_enum: STRING
- short_table_scans_percentage: REAL
- short_table_scans_percentage_enum: STRING
- long_table_scans_percentage: REAL
- long_table_scans_percentage_enum: STRING
- table_by_index_percentage: REAL
- table_by_index_percentage_enum: STRING
- efficient_table_access_percentage: REAL
- efficient_table_access_percentage_enum: STRING
- cluster_key_scan_block_gets: REAL
- cluster_key_scan_block_gets_enum: STRING
- cluster_key_scans: REAL
- cluster_key_scans_enum: STRING
- consistent_gets: REAL
- consistent_gets_enum: STRING
- consistent_changes: REAL
- consistent_changes_enum: STRING
- db_block_changes: REAL
- db_block_changes_enum: STRING
- db_block_get: REAL
- db_block_get_enum: STRING
- global_enqueue_gets_async: REAL
- global_enqueue_gets_async_enum: STRING
- redo_log_space_requests: REAL
- redo_log_space_requests_enum: STRING
- redo_size: REAL
- redo_size_enum: STRING
- redo_entries: REAL
- redo_entries_enum: STRING
- recursive_calls: REAL
- recursive_calls_enum: STRING
- table_fetch_continued_row: REAL
- table_fetch_continued_row_enum: STRING
- table_fetch_by_rowid: REAL
- table_fetch_by_rowid_enum: STRING
- table_scan_rows_gotten: REAL
- table_scan_rows_gotten_enum: STRING
- user_calls: REAL
- user_calls_enum: STRING
- user_commits: REAL
- user_commits_enum: STRING
- parse_count_total: REAL
- parse_count_total_enum: STRING
- workarea_executions_optimal: REAL
- workarea_executions_optimal_enum: STRING

- workarea_executions_onepass: REAL
- workarea_executions_onepass_enum: STRING
- workarea_executions_multipass: REAL
- workarea_executions_multipass_enum: STRING
- table_scans_short_tables: REAL
- table_scans_short_tables_enum: STRING
- table_scans_long_tables: REAL
- table_scans_long_tables_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Database Topology attribute group, events are sent using the ITM_KRZ_RDB_DATABASE_TOPOLOGY event class. This event class contains the following slots:
- node: STRING
- timestamp: STRING
- node_information: STRING
- thrunode_information: STRING
- node_name: STRING
- node_type: STRING
- node_state: STRING
- node_state_enum: STRING

For events generated by situations in the RDB DataFile Count attribute group, events are sent using the ITM_KRZ_RDB_DATAFILE_COUNT event class. This event class contains the following slots:
- node: STRING
- timestamp: STRING
- total_files_defined: REAL
- total_files_defined_enum: STRING
- max_open_files_allowed: REAL
- max_open_files_allowed_enum: STRING
- percentage_total_files_defined: REAL
- percentage_total_files_defined_enum: STRING
- percentage_total_files_free: REAL
- percentage_total_files_free_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB DataFile IO attribute group, events are sent using the ITM_KRZ_RDB_DATAFILE_IO event class. This event class contains the following slots:
- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- tablespace_name: STRING
- file_name: STRING

- total_read_write_number: REAL
- total_read_write_number_enum: STRING
- physical_read_number: REAL
- physical_read_number_enum: STRING
- physical_write_number: REAL
- physical_write_number_enum: STRING
- physical_blocks_read_number: REAL
- physical_blocks_read_number_enum: STRING
- physical_blocks_write_number: REAL
- physical_blocks_write_number_enum: STRING
- read_time_ms: REAL
- read_time_ms_enum: STRING
- write_time_ms: REAL
- write_time_ms_enum: STRING
- average_read_time_ms: REAL
- average_read_time_ms_enum: STRING
- average_write_time_ms: REAL
- average_write_time_ms_enum: STRING
- average_response_time_ms: REAL
- average_response_time_ms_enum: STRING
- single_block_reads: REAL
- single_block_reads_enum: STRING
- single_block_read_time: REAL
- single_block_read_time_enum: STRING
- average_time_io_ms: REAL
- average_time_io_ms_enum: STRING
- last_time_io_ms: REAL
- last_time_io_ms_enum: STRING
- minimum_single_io_time_ms: REAL
- minimum_single_io_time_ms_enum: STRING
- maximum_single_read_time_ms: REAL
- maximum_single_read_time_ms_enum: STRING
- maximum_single_write_time_ms: REAL
- maximum_single_write_time_ms_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB DataFile Overview attribute group, events are sent using the ITM_KRZ_RDB_DATAFILE_OVERVIEW event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- file_name: STRING
- file_id: REAL
- file_id_enum: STRING

- tablespace_name: STRING
- file_size_bytes: REAL
- file_size_bytes_enum: STRING
- file_size_kb: REAL
- file_size_kb_enum: STRING
- file_size_mb: REAL
- file_size_mb_enum: STRING
- blocks_number: REAL
- blocks_number_enum: STRING
- file_status: STRING
- file_status_enum: STRING
- relative_file_number: REAL
- relative_file_number_enum: STRING
- auto_extent: STRING
- auto_extent_enum: STRING
- maximum_file_size_bytes: REAL
- maximum_file_size_bytes_enum: STRING
- maximum_file_size_kb: REAL
- maximum_file_size_kb_enum: STRING
- maximum_file_size_mb: REAL
- maximum_file_size_mb_enum: STRING
- maximum_block_number: REAL
- maximum_block_number_enum: STRING
- block_increment_number: REAL
- block_increment_number_enum: STRING
- user_data_size_bytes: REAL
- user_data_size_bytes_enum: STRING
- user_data_size_kb: REAL
- user_data_size_kb_enum: STRING
- user_data_size_mb: REAL
- user_data_size_mb_enum: STRING
- percentage_user_data: REAL
- percentage_user_data_enum: STRING
- user_blocks_number: REAL
- user_blocks_number_enum: STRING
- online_status: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB DBA Extents attribute group, events are sent using the ITM_KRZ_RDB_DBA_EXTENTS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- owner: STRING

- segment_name: STRING
- partition_name: STRING
- segment_type: STRING
- tablespace_name: STRING
- extent_id: REAL
- extent_id_enum: STRING
- file_id: REAL
- file_id_enum: STRING
- block_id: REAL
- block_id_enum: STRING
- bytes: REAL
- bytes_enum: STRING
- blocks: REAL
- blocks_enum: STRING
- relative_fno: REAL
- relative_fno_enum: STRING
- next_block: REAL
- next_block_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB DBA HIST SQL PLAN attribute group, events are sent using the ITM_KRZ_RDB_DBA_HIST_SQL_PLAN event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- dbid: REAL
- dbid_enum: STRING
- sql_id: STRING
- hash_value: REAL
- hash_value_enum: STRING
- id: REAL
- id_enum: STRING
- operation: STRING
- options: STRING
- object_node: STRING
- object_num: REAL
- object_num_enum: STRING
- object_owner: STRING
- object_name: STRING
- object_alias: STRING
- object_type: STRING
- optimizer: STRING
- parent_id: REAL
- parent_id_enum: STRING

- depth: REAL
- depth_enum: STRING
- position: REAL
- position_enum: STRING
- search_columns: REAL
- search_columns_enum: STRING
- cost: REAL
- cost_enum: STRING
- cardinality: REAL
- cardinality_enum: STRING
- bytes: REAL
- bytes_enum: STRING
- other_tag: STRING
- partition_start: STRING
- partition_stop: STRING
- partition_id: REAL
- partition_id_enum: STRING
- other: STRING
- distribution: STRING
- cpu_cost: REAL
- cpu_cost_enum: STRING
- io_cost: REAL
- io_cost_enum: STRING
- temp_space: REAL
- temp_space_enum: STRING
- access_predicates: STRING
- filter_predicates: STRING
- projection: STRING
- time: REAL
- time_enum: STRING
- query_block: STRING
- produced_timestamp: STRING
- other_xml: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Dba Hist SysMetric Summary attribute group, events are sent using the ITM_KRZ_RDB_DBA_HIST_SYSMETRIC_SUMMARY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- snapshot_id: REAL
- snapshot_id_enum: STRING
- database_id: REAL
- database_id_enum: STRING

- instance_number: REAL
- instance_number_enum: STRING
- begin_time: STRING
- end_time: STRING
- interval_size: REAL
- interval_size_enum: STRING
- group_id: REAL
- group_id_enum: STRING
- metric_id: REAL
- metric_id_enum: STRING
- metric_name: STRING
- metric_unit: STRING
- num_interval: REAL
- num_interval_enum: STRING
- minimum_value_observed: REAL
- minimum_value_observed_enum: STRING
- maximum_value_observed: REAL
- maximum_value_observed_enum: STRING
- average: REAL
- average_enum: STRING
- standard_deviation: REAL
- standard_deviation_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Dictionary Cache Detail attribute group, events are sent using the ITM_KRZ_RDB_DICTIONARY_CACHE_DETAIL event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- initialization_parameter_name: STRING
- request_number: REAL
- request_number_enum: STRING
- miss_number: REAL
- miss_number_enum: STRING
- modifications_number: REAL
- modifications_number_enum: STRING
- flushes_number: REAL
- flushes_number_enum: STRING
- miss_request_percent: REAL
- miss_request_percent_enum: STRING
- instance_name: STRING
- server_name: STRING

- database_name: STRING

For events generated by situations in the RDB Dictionary Cache Ratio attribute group, events are sent using the ITM_KRZ_RDB_DICTIONARY_CACHE_RATIO event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- request_number: REAL
- request_number_enum: STRING
- misses_number: REAL
- misses_number_enum: STRING
- dictionary_cache_hit_ratio: REAL
- dictionary_cache_hit_ratio_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Disk Space attribute group, events are sent using the ITM_KRZ_RDB_DISK_SPACE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_name: STRING
- is_local: STRING
- is_local_enum: STRING
- owner_type: STRING
- owner_type_enum: STRING
- owner: STRING
- path: STRING
- free_size_bytes: REAL
- free_size_bytes_enum: STRING
- free_size_mb: REAL
- free_size_mb_enum: STRING
- total_size_bytes: REAL
- total_size_bytes_enum: STRING
- total_size_mb: REAL
- total_size_mb_enum: STRING
- percentage_free: REAL
- percentage_free_enum: STRING
- used_size_bytes: REAL
- used_size_bytes_enum: STRING
- used_size_mb: REAL
- used_size_mb_enum: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Flash Recovery Area Usage attribute group, events are sent using the ITM_KRZ_RDB_FLASH_RECOVERY_AREA_USAGE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- file_type: STRING
- space_used_percentage: INTEGER
- space_used_percentage_enum: STRING
- space_reclaimable_percentage: INTEGER
- space_reclaimable_percentage_enum: STRING
- number_of_files: REAL
- number_of_files_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Flashback Database Log attribute group, events are sent using the ITM_KRZ_RDB_FLASHBACK_DATABASE_LOG event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- oldest_flashback_scn: REAL
- oldest_flashback_scn_enum: STRING
- oldest_flashback_time: STRING
- retention_target: REAL
- retention_target_enum: STRING
- flashback_size: REAL
- flashback_size_enum: STRING
- flashback_size_mb: REAL
- flashback_size_mb_enum: STRING
- estimated_flashback_size: REAL
- estimated_flashback_size_enum: STRING
- estimated_flashback_size_mb: REAL
- estimated_flashback_size_mb_enum: STRING
- instance_id: INTEGER
- instance_id_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Flashback Database Logfile attribute group, events are sent using the ITM_KRZ_RDB_FLASHBACK_DATABASE_LOGFILE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- name: STRING
- log_number: REAL

- log_number_enum: STRING
- thread_number: REAL
- thread_number_enum: STRING
- sequence_number: REAL
- sequence_number_enum: STRING
- bytes: REAL
- bytes_enum: STRING
- mbytes: REAL
- mbytes_enum: STRING
- first_change: REAL
- first_change_enum: STRING
- first_time: STRING
- instance_id: INTEGER
- instance_id_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB GCS Block Lost attribute group, events are sent using the ITM_KRZ_RDB_GCS_BLOCK_LOST event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- instance_name: STRING
- block_lost: REAL
- block_lost_enum: STRING
- block_corrupt: REAL
- block_corrupt_enum: STRING
- cr_blocks_served: REAL
- cr_blocks_served_enum: STRING
- current_blocks_served: REAL
- current_blocks_served_enum: STRING
- lost_ratio: REAL
- lost_ratio_enum: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB GCS CR Latency attribute group, events are sent using the ITM_KRZ_RDB_GCS_CR_LATENCY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- instance_name: STRING
- cr_block_received_time_ms: REAL

- cr_block_received_time_ms_enum: STRING
- cr_block_received: REAL
- cr_block_received_enum: STRING
- avg_cr_block_received_ms: REAL
- avg_cr_block_received_ms_enum: STRING
- cr_build_time_ms: REAL
- cr_build_time_ms_enum: STRING
- cr_flush_time_ms: REAL
- cr_flush_time_ms_enum: STRING
- cr_sent_time_ms: REAL
- cr_sent_time_ms_enum: STRING
- cr_block_served: REAL
- cr_block_served_enum: STRING
- avg_cr_block_served_time_ms: REAL
- avg_cr_block_served_time_ms_enum: STRING
- avg_cr_build_time_ms: REAL
- avg_cr_build_time_ms_enum: STRING
- avg_cr_flush_time_ms: REAL
- avg_cr_flush_time_ms_enum: STRING
- avg_cr_send_time_ms: REAL
- avg_cr_send_time_ms_enum: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB GCS Cur Block attribute group, events are sent using the ITM_KRZ_RDB_GCS_CUR_BLOCK event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- instance_name: STRING
- current_block_receive_time_ms: REAL
- current_block_receive_time_ms_enum: STRING
- current_blocks_received: REAL
- current_blocks_received_enum: STRING
- avg_current_block_receive_time_ms: REAL
- avg_current_block_receive_time_ms_enum: STRING
- current_block_pin_time_ms: REAL
- current_block_pin_time_ms_enum: STRING
- current_block_flush_time_ms: REAL
- current_block_flush_time_ms_enum: STRING
- current_block_sent_time_ms: REAL
- current_block_sent_time_ms_enum: STRING
- current_block_served: REAL
- current_block_served_enum: STRING

- avg_current_block_served_time_ms: REAL
- avg_current_block_served_time_ms_enum: STRING
- avg_current_block_pin_time_ms: REAL
- avg_current_block_pin_time_ms_enum: STRING
- avg_current_block_flush_time_ms: REAL
- avg_current_block_flush_time_ms_enum: STRING
- avg_current_block_send_time_ms: REAL
- avg_current_block_send_time_ms_enum: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB GCS Mem attribute group, events are sent using the ITM_KRZ_RDB_GCS_MEM event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- instance_name: STRING
- pool: STRING
- resources_bytes: REAL
- resources_bytes_enum: STRING
- shadow_bytes: REAL
- shadow_bytes_enum: STRING
- commit_sga_state_bytes: REAL
- commit_sga_state_bytes_enum: STRING
- res_hash_bucket_bytes: REAL
- res_hash_bucket_bytes_enum: STRING
- res_latch_table_bytes: REAL
- res_latch_table_bytes_enum: STRING
- affinity_bytes: REAL
- affinity_bytes_enum: STRING
- opaque_in_bytes: REAL
- opaque_in_bytes_enum: STRING
- mastership_bucket_bytes: REAL
- mastership_bucket_bytes_enum: STRING
- shadow_locks_freelist_bytes: REAL
- shadow_locks_freelist_bytes_enum: STRING
- resource_freelist_attr_bytes: REAL
- resource_freelist_attr_bytes_enum: STRING
- resource_freelist_dyn_bytes: REAL
- resource_freelist_dyn_bytes_enum: STRING
- io_statistics_struct_bytes: REAL
- io_statistics_struct_bytes_enum: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB GES Enq Stat attribute group, events are sent using the ITM_KRZ_RDB_GES_ENQ_STAT event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- instance_name: STRING
- enqueue_type: STRING
- total_requests: REAL
- total_requests_enum: STRING
- total_wait_requests: REAL
- total_wait_requests_enum: STRING
- successful_requests: REAL
- successful_requests_enum: STRING
- failed_requests: REAL
- failed_requests_enum: STRING
- total_wait_time_ms: REAL
- total_wait_time_ms_enum: STRING
- failed_ratio: REAL
- failed_ratio_enum: STRING
- wait_ratio: REAL
- wait_ratio_enum: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB GES Latency attribute group, events are sent using the ITM_KRZ_RDB_GES_LATENCY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- instance_name: STRING
- enqueue_get_time_ms: REAL
- enqueue_get_time_ms_enum: STRING
- enqueue_sync_get: REAL
- enqueue_sync_get_enum: STRING
- enqueue_async_get: REAL
- enqueue_async_get_enum: STRING
- avg_latency_time_ms: REAL
- avg_latency_time_ms_enum: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB GES Lock attribute group, events are sent using the ITM_KRZ_RDB_GES_LOCK event class. This event class contains the following slots:

- node: STRING

- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- instance_name: STRING
- session_id: REAL
- session_id_enum: STRING
- process_id: STRING
- resource_name: STRING
- grant_level: STRING
- request_level: STRING
- state: STRING
- user_name: STRING
- owner_id: REAL
- owner_id_enum: STRING
- program: STRING
- event: STRING
- session_type: STRING
- session_wait_time_sec: REAL
- session_wait_time_sec_enum: STRING
- blocked: REAL
- blocked_enum: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB GES Mem attribute group, events are sent using the ITM_KRZ_RDB_GES_MEM event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- instance_name: STRING
- pool: STRING
- big_msg_buffers_bytes: REAL
- big_msg_buffers_bytes_enum: STRING
- resource_bytes: REAL
- resource_bytes_enum: STRING
- enqueues_bytes: REAL
- enqueues_bytes_enum: STRING
- reserved_msg_buffers_bytes: REAL
- reserved_msg_buffers_bytes_enum: STRING
- regular_msg_buffer_bytes: REAL
- regular_msg_buffer_bytes_enum: STRING
- process_array_bytes: REAL
- process_array_bytes_enum: STRING
- resource_hash_table_bytes: REAL

- resource_hash_table_bytes_enum: STRING
- shared_global_area_bytes: REAL
- shared_global_area_bytes_enum: STRING
- deadlock_xid_hash_tab_bytes: REAL
- deadlock_xid_hash_tab_bytes_enum: STRING
- process_hash_table_bytes: REAL
- process_hash_table_bytes_enum: STRING
- resource_hash_seq_tab_bytes: REAL
- resource_hash_seq_tab_bytes_enum: STRING
- deadlock_xid_freelist_bytes: REAL
- deadlock_xid_freelist_bytes_enum: STRING
- lmd_process_descripto_bytes: REAL
- lmd_process_descripto_bytes_enum: STRING
- lms_process_descripto_bytes: REAL
- lms_process_descripto_bytes_enum: STRING
- res_mastership_bucket_bytes: REAL
- res_mastership_bucket_bytes_enum: STRING
- resource_pools_bytes: REAL
- resource_pools_bytes_enum: STRING
- ipc_instance_maps_bytes: REAL
- ipc_instance_maps_bytes_enum: STRING
- enqueue_multiple_free_bytes: REAL
- enqueue_multiple_free_bytes_enum: STRING
- scan_queue_array_bytes: REAL
- scan_queue_array_bytes_enum: STRING
- recovery_domain_table_bytes: REAL
- recovery_domain_table_bytes_enum: STRING
- enqueue_max_usage_bytes: REAL
- enqueue_max_usage_bytes_enum: STRING
- enqueue_cur_usage_bytes: REAL
- enqueue_cur_usage_bytes_enum: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Index AVG Data Block attribute group, events are sent using the ITM_KRZ_RDB_INDEX_AVG_DATA_BLOCK event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- owner: STRING
- index_name: STRING
- tablespace_name: STRING
- average_data_blocks_per_key: REAL
- average_data_blocks_per_key_enum: STRING
- show_name: STRING
- instance_name: STRING

- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Index Size attribute group, events are sent using the ITM_KRZ_RDB_INDEX_SIZE event class. This event class contains the following slots:
- node: STRING
- timestamp: STRING
- owner: STRING
- index_name: STRING
- tablespace_name: STRING
- index_size_bytes: REAL
- index_size_bytes_enum: STRING
- index_size_kb: REAL
- index_size_kb_enum: STRING
- index_size_mb: REAL
- index_size_mb_enum: STRING
- show_name: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Indexes attribute group, events are sent using the ITM_KRZ_RDB_INDEXES event class. This event class contains the following slots:
- node: STRING
- timestamp: STRING
- owner: STRING
- index_name: STRING
- index_type: STRING
- index_type_enum: STRING
- table_owner: STRING
- table_name: STRING
- table_type: STRING
- table_type_enum: STRING
- uniqueness: STRING
- uniqueness_enum: STRING
- compression: STRING
- compression_enum: STRING
- prefix_length: REAL
- prefix_length_enum: STRING
- tablespace_name: STRING
- initial_transactions: REAL
- initial_transactions_enum: STRING
- max_transactions: REAL
- max_transactions_enum: STRING
- initial_extent_size_bytes: REAL
- initial_extent_size_bytes_enum: STRING

- initial_extent_size_kb: REAL
- initial_extent_size_kb_enum: STRING
- initial_extent_size_mb: REAL
- initial_extent_size_mb_enum: STRING
- next_extent_size_bytes: REAL
- next_extent_size_bytes_enum: STRING
- next_extent_size_kb: REAL
- next_extent_size_kb_enum: STRING
- next_extent_size_mb: REAL
- next_extent_size_mb_enum: STRING
- min_extent: REAL
- min_extent_enum: STRING
- max_extent: REAL
- max_extent_enum: STRING
- increase_percentage: REAL
- increase_percentage_enum: STRING
- threshold_percentage: REAL
- threshold_percentage_enum: STRING
- include_column: REAL
- include_column_enum: STRING
- freelists: REAL
- freelists_enum: STRING
- freelists_groups: REAL
- freelists_groups_enum: STRING
- pct_free: REAL
- pct_free_enum: STRING
- logging: STRING
- logging_enum: STRING
- btree_level: REAL
- btree_level_enum: STRING
- leaf_blocks: REAL
- leaf_blocks_enum: STRING
- distinct_keys: REAL
- distinct_keys_enum: STRING
- average_leaf_blocks_per_key: REAL
- average_leaf_blocks_per_key_enum: STRING
- average_data_blocks_per_key: REAL
- average_data_blocks_per_key_enum: STRING
- clustering_factor: REAL
- clustering_factor_enum: STRING
- krz_status: STRING
- krz_status_enum: STRING
- num_rows: REAL
- num_rows_enum: STRING
- sample_size: REAL

- sample_size_enum: STRING
- last_analyzed: STRING
- degree: STRING
- instances: STRING
- partitioned: STRING
- partitioned_enum: STRING
- temporary: STRING
- temporary_enum: STRING
- generated: STRING
- generated_enum: STRING
- secondary: STRING
- secondary_enum: STRING
- buffer_pool: STRING
- buffer_pool_enum: STRING
- user_stats: STRING
- user_stats_enum: STRING
- krz_duration: STRING
- krz_duration_enum: STRING
- pct_direct_access: REAL
- pct_direct_access_enum: STRING
- indextype_owner: STRING
- indextype_name: STRING
- parameters: STRING
- global_stats: STRING
- global_stats_enum: STRING
- domain_index_status: STRING
- domain_index_status_enum: STRING
- domain_index_operation_status: STRING
- domain_index_operation_status_enum: STRING
- function_based_index_status: STRING
- function_based_index_status_enum: STRING
- join_index: STRING
- join_index_enum: STRING
- iot_redundant_pkey_elim: STRING
- iot_redundant_pkey_elim_enum: STRING
- dropped: STRING
- dropped_enum: STRING
- visibility: STRING
- visibility_enum: STRING
- domain_index_management: STRING
- domain_index_management_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Instance Info attribute group, events are sent using the ITM_KRZ_RDB_INSTANCE_INFO event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- instance_number: REAL
- instance_number_enum: STRING
- instance_name: STRING
- host_name: STRING
- version: STRING
- start_time: STRING
- krz_status: STRING
- krz_status_enum: STRING
- parallel: STRING
- parallel_enum: STRING
- redo_thread_number: REAL
- redo_thread_number_enum: STRING
- archiver: STRING
- archiver_enum: STRING
- log_switch_wait: STRING
- log_switch_wait_enum: STRING
- logins: STRING
- logins_enum: STRING
- shutdown_pending: STRING
- shutdown_pending_enum: STRING
- database_status: STRING
- database_status_enum: STRING
- instance_role: STRING
- instance_role_enum: STRING
- active_state: STRING
- active_state_enum: STRING
- blocked: STRING
- blocked_enum: STRING
- database_name: STRING

For events generated by situations in the RDB Instances Active Ratio attribute group, events are sent using the ITM_KRZ_RDB_INSTANCES_ACTIVE_RATIO event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- active_instance_count: REAL
- active_instance_count_enum: STRING
- total_instance_count: REAL
- total_instance_count_enum: STRING
- active_ratio: REAL

- active_ratio_enum: STRING
- database_name: STRING
- instance_name: STRING
- server_name: STRING

For events generated by situations in the RDB Inter Connections attribute group, events are sent using the ITM_KRZ_RDB_INTER_CONNECTIONS event class. This event class contains the following slots:
- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- name: STRING
- ip_address: STRING
- is_public: STRING
- is_public_enum: STRING
- krz_source: STRING
- active_cpus: REAL
- active_cpus_enum: STRING
- load: REAL
- load_enum: STRING
- physical_memory_gb: REAL
- physical_memory_gb_enum: STRING
- idle_time_percent: REAL
- idle_time_percent_enum: STRING
- busy_time_percent: REAL
- busy_time_percent_enum: STRING
- user_time_percent: REAL
- user_time_percent_enum: STRING
- sys_time_percent: REAL
- sys_time_percent_enum: STRING
- io_wait_time_percent: REAL
- io_wait_time_percent_enum: STRING
- nice_time_percent: REAL
- nice_time_percent_enum: STRING
- process_runnable_waiting_time_percent: REAL
- process_runnable_waiting_time_percent_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Latch Children attribute group, events are sent using the ITM_KRZ_RDB_LATCH_CHILDREN event class. This event class contains the following slots:
- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING

- address: STRING
- latch_number: REAL
- latch_number_enum: STRING
- latch_child_number: REAL
- latch_child_number_enum: STRING
- latch_level: REAL
- latch_level_enum: STRING
- latch_name: STRING
- willing_to_wait_gets: REAL
- willing_to_wait_gets_enum: STRING
- willing_to_wait_misses: REAL
- willing_to_wait_misses_enum: STRING
- willing_to_wait_sleeps: REAL
- willing_to_wait_sleeps_enum: STRING
- ratio_of_sleeps_to_misses: REAL
- ratio_of_sleeps_to_misses_enum: STRING
- willing_to_wait_miss_ratio: REAL
- willing_to_wait_miss_ratio_enum: STRING
- willing_to_wait_hit_ratio: REAL
- willing_to_wait_hit_ratio_enum: STRING
- immediate_gets: REAL
- immediate_gets_enum: STRING
- immediate_misses: REAL
- immediate_misses_enum: STRING
- willing_to_wait_spin_gets: REAL
- willing_to_wait_spin_gets_enum: STRING
- wait_time: REAL
- wait_time_enum: STRING
- immediate_miss_ratio: REAL
- immediate_miss_ratio_enum: STRING
- immediate_hit_ratio: REAL
- immediate_hit_ratio_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Latch Statistics attribute group, events are sent using the ITM_KRZ_RDB_LATCH_STATISTICS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- address: STRING
- latch_number: REAL
- latch_number_enum: STRING

- latch_level: REAL
- latch_level_enum: STRING
- latch_name: STRING
- willing_to_wait_gets: REAL
- willing_to_wait_gets_enum: STRING
- willing_to_wait_misses: REAL
- willing_to_wait_misses_enum: STRING
- willing_to_wait_sleeps: REAL
- willing_to_wait_sleeps_enum: STRING
- ratio_of_sleeps_to_misses: REAL
- ratio_of_sleeps_to_misses_enum: STRING
- willing_to_wait_miss_ratio: REAL
- willing_to_wait_miss_ratio_enum: STRING
- willing_to_wait_hit_ratio: REAL
- willing_to_wait_hit_ratio_enum: STRING
- immediate_gets: REAL
- immediate_gets_enum: STRING
- immediate_misses: REAL
- immediate_misses_enum: STRING
- willing_to_wait_spin_gets: REAL
- willing_to_wait_spin_gets_enum: STRING
- wait_time: REAL
- wait_time_enum: STRING
- immediate_miss_ratio: REAL
- immediate_miss_ratio_enum: STRING
- immediate_hit_ratio: REAL
- immediate_hit_ratio_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Library Cache Detail attribute group, events are sent using the ITM_KRZ_RDB_LIBRARY_CACHE_DETAIL event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: STRING
- namespace_name: STRING
- pin_number: REAL
- pin_number_enum: STRING
- pin_hits: REAL
- pin_hits_enum: STRING
- pin_hits_ratio: REAL
- pin_hits_ratio_enum: STRING
- pin_reloads: REAL
- pin_reloads_enum: STRING

- pin_reloads_ratio: REAL
- pin_reloads_ratio_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Library Cache Ratio attribute group, events are sent using the ITM_KRZ_RDB_LIBRARY_CACHE_RATIO event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- executions: REAL
- executions_enum: STRING
- pin_hits_number: REAL
- pin_hits_number_enum: STRING
- pin_hits_ratio: REAL
- pin_hits_ratio_enum: STRING
- misses: REAL
- misses_enum: STRING
- first_pin_ratio: REAL
- first_pin_ratio_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Lock Conflict attribute group, events are sent using the ITM_KRZ_RDB_LOCK_CONFLICT event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- blocker_instance_id: REAL
- blocker_instance_id_enum: STRING
- locked_object_id1: REAL
- locked_object_id1_enum: STRING
- blocker_object_name: STRING
- blocker_object_type: REAL
- blocker_object_type_enum: STRING
- blocking_session_id: REAL
- blocking_session_id_enum: STRING
- blocking_user_id: STRING
- blocking_sql_address: STRING
- waiting_instance_id: REAL
- waiting_instance_id_enum: STRING
- waiting_session_id: REAL
- waiting_session_id_enum: STRING
- waiting_user_id: STRING

- waiting_sql_address: STRING
- hold_mode: REAL
- hold_mode_enum: STRING
- request_mode: REAL
- request_mode_enum: STRING
- locked_object_id2: REAL
- locked_object_id2_enum: STRING
- event: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Lock Detail attribute group, events are sent using the ITM_KRZ_RDB_LOCK_DETAIL event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- lock_state_object_address: STRING
- lock_address: STRING
- session_id: REAL
- session_id_enum: STRING
- lock_type: STRING
- lock_name: STRING
- lock_id1: REAL
- lock_id1_enum: STRING
- lock_id2: REAL
- lock_id2_enum: STRING
- hold_lock_mode: REAL
- hold_lock_mode_enum: STRING
- request_lock_mode: REAL
- request_lock_mode_enum: STRING
- current_mode_time: REAL
- current_mode_time_enum: STRING
- block_lock: REAL
- block_lock_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Lock Statistics attribute group, events are sent using the ITM_KRZ_RDB_LOCK_STATISTICS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING

- lock_type: STRING
- lock_count: REAL
- lock_count_enum: STRING
- lock_name: STRING
- lock_description: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Msg Stat attribute group, events are sent using the ITM_KRZ_RDB_MSG_STAT event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- instance_name: STRING
- msgs_send_queue_time_ms: REAL
- msgs_send_queue_time_ms_enum: STRING
- msgs_send_queued: REAL
- msgs_send_queued_enum: STRING
- msgs_send_queue_time_on_ksxp_ms: REAL
- msgs_send_queue_time_on_ksxp_ms_enum: STRING
- msgs_send_queued_on_ksxp: REAL
- msgs_send_queued_on_ksxp_enum: STRING
- msgs_received_queue_time_ms: REAL
- msgs_received_queue_time_ms_enum: STRING
- msgs_received_queued: REAL
- msgs_received_queued_enum: STRING
- gcs_msgs_process_time_ms: REAL
- gcs_msgs_process_time_ms_enum: STRING
- ges_msgs_process_time_ms: REAL
- ges_msgs_process_time_ms_enum: STRING
- gcs_msgs_received: REAL
- gcs_msgs_received_enum: STRING
- ges_msgs_received: REAL
- ges_msgs_received_enum: STRING
- msgs_sent_directly: REAL
- msgs_sent_directly_enum: STRING
- msgs_sent_indirectly: REAL
- msgs_sent_indirectly_enum: STRING
- flow_control_messages_sent: REAL
- flow_control_messages_sent_enum: STRING
- msg_ratio_directly: REAL
- msg_ratio_directly_enum: STRING
- msg_ratio_indirectly: REAL

- msg_ratio_indirectly_enum: STRING
- msg_ratio_flow_control: REAL
- msg_ratio_flow_control_enum: STRING
- avg_msg_sent_queued_ms: REAL
- avg_msg_sent_queued_ms_enum: STRING
- avg_msg_sent_queued_on_ksxp_ms: REAL
- avg_msg_sent_queued_on_ksxp_ms_enum: STRING
- avg_msg_received_ms: REAL
- avg_msg_received_ms_enum: STRING
- avg_gcs_process_time_ms: REAL
- avg_gcs_process_time_ms_enum: STRING
- avg_ges_process_time_ms: REAL
- avg_ges_process_time_ms_enum: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Objects attribute group, events are sent using the ITM_KRZ_RDB_OBJECTS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- owner: STRING
- object_name: STRING
- subobject_name: STRING
- object_id: REAL
- object_id_enum: STRING
- data_object_id: REAL
- data_object_id_enum: STRING
- object_type: STRING
- created: STRING
- last_ddl_time: STRING
- specification_timestamp: STRING
- krz_status: STRING
- krz_status_enum: STRING
- temporary: STRING
- temporary_enum: STRING
- generated: STRING
- generated_enum: STRING
- secondary: STRING
- secondary_enum: STRING
- namespace: REAL
- namespace_enum: STRING
- edition_name: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Option attribute group, events are sent using the ITM_KRZ_RDB_OPTION event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- parameter: STRING
- krz_value: STRING
- krz_value_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Parameter attribute group, events are sent using the ITM_KRZ_RDB_PARAMETER event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- parameter_number: REAL
- parameter_number_enum: STRING
- parameter_name: STRING
- parameter_type: REAL
- parameter_type_enum: STRING
- krz_value: STRING
- display_value: STRING
- is_default: STRING
- is_default_enum: STRING
- is_session_modifiable: STRING
- is_session_modifiable_enum: STRING
- is_system_modifiable: STRING
- is_system_modifiable_enum: STRING
- is_instance_modifiable: STRING
- is_instance_modifiable_enum: STRING
- is_modified: STRING
- is_modified_enum: STRING
- is_adjusted: STRING
- is_adjusted_enum: STRING
- is_deprecated: STRING
- is_deprecated_enum: STRING
- is_basic: STRING
- is_basic_enum: STRING
- description: STRING
- update_comments: STRING
- hash: REAL
- hash_enum: STRING

- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Performance Object Status attribute group, events are sent using the ITM_KRZ_RDB_PERFORMANCE_OBJECT_STATUS event class. This event class contains the following slots:
- node: STRING
- timestamp: STRING
- query_name: STRING
- object_name: STRING
- object_type: INTEGER
- object_type_enum: STRING
- object_status: INTEGER
- object_status_enum: STRING
- error_code: INTEGER
- error_code_enum: STRING

For events generated by situations in the RDB PGA Detail attribute group, events are sent using the ITM_KRZ_RDB_PGA_DETAIL event class. This event class contains the following slots:
- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- name: STRING
- krz_value: REAL
- krz_value_enum: STRING
- unit: STRING
- unit_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB PGA Overview attribute group, events are sent using the ITM_KRZ_RDB_PGA_OVERVIEW event class. This event class contains the following slots:
- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- aggregate_pga_target_bytes: REAL
- aggregate_pga_target_bytes_enum: STRING
- aggregate_pga_target_kb: REAL
- aggregate_pga_target_kb_enum: STRING
- aggregate_pga_target_mb: REAL
- aggregate_pga_target_mb_enum: STRING
- aggregate_pga_auto_target_bytes: REAL
- aggregate_pga_auto_target_bytes_enum: STRING

- aggregate_pga_auto_target_kb: REAL
- aggregate_pga_auto_target_kb_enum: STRING
- aggregate_pga_auto_target_mb: REAL
- aggregate_pga_auto_target_mb_enum: STRING
- global_memory_bound_bytes: REAL
- global_memory_bound_bytes_enum: STRING
- global_memory_bound_kb: REAL
- global_memory_bound_kb_enum: STRING
- global_memory_bound_mb: REAL
- global_memory_bound_mb_enum: STRING
- total_pga_allocated_bytes: REAL
- total_pga_allocated_bytes_enum: STRING
- total_pga_allocated_kb: REAL
- total_pga_allocated_kb_enum: STRING
- total_pga_allocated_mb: REAL
- total_pga_allocated_mb_enum: STRING
- total_pga_inuse_bytes: REAL
- total_pga_inuse_bytes_enum: STRING
- total_pga_inuse_kb: REAL
- total_pga_inuse_kb_enum: STRING
- total_pga_inuse_mb: REAL
- total_pga_inuse_mb_enum: STRING
- total_pga_free_bytes: REAL
- total_pga_free_bytes_enum: STRING
- total_pga_free_kb: REAL
- total_pga_free_kb_enum: STRING
- total_pga_free_mb: REAL
- total_pga_free_mb_enum: STRING
- used_for_auto_workareas_bytes: REAL
- used_for_auto_workareas_bytes_enum: STRING
- used_for_auto_workareas_kb: REAL
- used_for_auto_workareas_kb_enum: STRING
- used_for_auto_workareas_mb: REAL
- used_for_auto_workareas_mb_enum: STRING
- used_for_manual_workareas_bytes: REAL
- used_for_manual_workareas_bytes_enum: STRING
- used_for_manual_workareas_kb: REAL
- used_for_manual_workareas_kb_enum: STRING
- used_for_manual_workareas_mb: REAL
- used_for_manual_workareas_mb_enum: STRING
- over_allocation_count: REAL
- over_allocation_count_enum: STRING
- processed_bytes: REAL
- processed_bytes_enum: STRING
- processed_kb: REAL

- processed_kb_enum: STRING
- processed_mb: REAL
- processed_mb_enum: STRING
- extra_rw_bytes: REAL
- extra_rw_bytes_enum: STRING
- extra_rw_kb: REAL
- extra_rw_kb_enum: STRING
- extra_rw_mb: REAL
- extra_rw_mb_enum: STRING
- cache_hit_percentage: REAL
- cache_hit_percentage_enum: STRING
- maximum_pga_allocated_bytes: REAL
- maximum_pga_allocated_bytes_enum: STRING
- maximum_pga_allocated_kb: REAL
- maximum_pga_allocated_kb_enum: STRING
- maximum_pga_allocated_mb: REAL
- maximum_pga_allocated_mb_enum: STRING
- total_freeable_pga_memory_bytes: REAL
- total_freeable_pga_memory_bytes_enum: STRING
- total_freeable_pga_memory_kb: REAL
- total_freeable_pga_memory_kb_enum: STRING
- total_freeable_pga_memory_mb: REAL
- total_freeable_pga_memory_mb_enum: STRING
- process_count: REAL
- process_count_enum: STRING
- max_processes_count: REAL
- max_processes_count_enum: STRING
- pga_freed_bytes: REAL
- pga_freed_bytes_enum: STRING
- pga_freed_kb: REAL
- pga_freed_kb_enum: STRING
- pga_freed_mb: REAL
- pga_freed_mb_enum: STRING
- max_used_for_auto_workareas_bytes: REAL
- max_used_for_auto_workareas_bytes_enum: STRING
- max_used_for_auto_workareas_kb: REAL
- max_used_for_auto_workareas_kb_enum: STRING
- max_used_for_auto_workareas_mb: REAL
- max_used_for_auto_workareas_mb_enum: STRING
- max_used_for_manual_workareas_bytes: REAL
- max_used_for_manual_workareas_bytes_enum: STRING
- max_used_for_manual_workareas_kb: REAL
- max_used_for_manual_workareas_kb_enum: STRING
- max_used_for_manual_workareas_mb: REAL
- max_used_for_manual_workareas_mb_enum: STRING

- total_recompute_count: REAL
- total_recompute_count_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB PGA Target Advice attribute group, events are sent using the ITM_KRZ_RDB_PGA_TARGET_ADVICE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- pga_target_for_estimate_bytes: REAL
- pga_target_for_estimate_bytes_enum: STRING
- pga_target_for_estimate_kb: REAL
- pga_target_for_estimate_kb_enum: STRING
- pga_target_for_estimate_mb: REAL
- pga_target_for_estimate_mb_enum: STRING
- pga_target_factor: REAL
- pga_target_factor_enum: STRING
- advice_status: STRING
- advice_status_enum: STRING
- bytes_processed: REAL
- bytes_processed_enum: STRING
- kb_processed: REAL
- kb_processed_enum: STRING
- mb_processed: REAL
- mb_processed_enum: STRING
- estimated_time: REAL
- estimated_time_enum: STRING
- estimated_extra_bytes_rw: REAL
- estimated_extra_bytes_rw_enum: STRING
- estimated_extra_kb_rw: REAL
- estimated_extra_kb_rw_enum: STRING
- estimated_extra_mb_rw: REAL
- estimated_extra_mb_rw_enum: STRING
- estimated_hit_percentage: REAL
- estimated_hit_percentage_enum: STRING
- estimated_overalloc_count: REAL
- estimated_overalloc_count_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Process Detail attribute group, events are sent using the ITM_KRZ_RDB_PROCESS_DETAIL event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- user_name: STRING
- program: STRING
- background_process_name: STRING
- process_id: REAL
- process_id_enum: STRING
- system_process_id: STRING
- serial_number: REAL
- serial_number_enum: STRING
- terminal: STRING
- background: STRING
- background_enum: STRING
- latch_wait: STRING
- latch_spin: STRING
- pga_memory_used_bytes: REAL
- pga_memory_used_bytes_enum: STRING
- pga_memory_used_kb: REAL
- pga_memory_used_kb_enum: STRING
- pga_memory_allocated_bytes: REAL
- pga_memory_allocated_bytes_enum: STRING
- pga_memory_allocated_kb: REAL
- pga_memory_allocated_kb_enum: STRING
- pga_memory_free_bytes: REAL
- pga_memory_free_bytes_enum: STRING
- pga_memory_free_kb: REAL
- pga_memory_free_kb_enum: STRING
- pga_memory_max_bytes: REAL
- pga_memory_max_bytes_enum: STRING
- pga_memory_max_kb: REAL
- pga_memory_max_kb_enum: STRING
- background_process_description: STRING
- background_process_error: REAL
- background_process_error_enum: STRING
- address: STRING
- trace_file_id: STRING
- trace_file: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Process Summary attribute group, events are sent using the ITM_KRZ_RDB_PROCESS_SUMMARY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- total_foreground: REAL
- total_foreground_enum: STRING
- total_background: REAL
- total_background_enum: STRING
- pct_foreground_total: REAL
- pct_foreground_total_enum: STRING
- total_processes: REAL
- total_processes_enum: STRING
- max_processes_allowed: STRING
- max_processes_allowed_enum: STRING
- pct_total_limit: REAL
- pct_total_limit_enum: STRING
- max_processes_utilized: REAL
- max_processes_utilized_enum: STRING
- total_latch_wait: REAL
- total_latch_wait_enum: STRING
- total_latch_spin: REAL
- total_latch_spin_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Recovery File Dest attribute group, events are sent using the ITM_KRZ_RDB_RECOVERY_FILE_DEST event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- name: STRING
- space_limit: REAL
- space_limit_enum: STRING
- space_limit_mb: REAL
- space_limit_mb_enum: STRING
- space_used: REAL
- space_used_enum: STRING
- space_used_mb: REAL
- space_used_mb_enum: STRING
- space_reclaimable: REAL
- space_reclaimable_enum: STRING
- space_reclaimable_mb: REAL
- space_reclaimable_mb_enum: STRING
- used_percentage: INTEGER
- used_percentage_enum: STRING

- claim_percentage: INTEGER
- claim_percentage_enum: STRING
- free_percentage: INTEGER
- free_percentage_enum: STRING
- number_of_files: REAL
- number_of_files_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Resource Limitation attribute group, events are sent using the ITM_KRZ_RDB_RESOURCE_LIMITATION event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- resource_name: STRING
- resource_id: STRING
- current_utilization: REAL
- current_utilization_enum: STRING
- maximum_utilization: REAL
- maximum_utilization_enum: STRING
- initial_allocation: STRING
- initial_allocation_enum: STRING
- limit_value: STRING
- limit_value_enum: STRING
- current_utilization_ratio: REAL
- current_utilization_ratio_enum: STRING
- maximum_utilization_ratio: REAL
- maximum_utilization_ratio_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Rollback Segment Detail attribute group, events are sent using the ITM_KRZ_RDB_ROLLBACK_SEGMENT_DETAIL event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- rollback_segment_number: REAL
- rollback_segment_number_enum: STRING
- rollback_segment_name: STRING
- number_extents: REAL
- number_extents_enum: STRING

- rollback_segment_size: REAL
- rollback_segment_size_enum: STRING
- bytes_written: REAL
- bytes_written_enum: STRING
- number_active_transactions: REAL
- number_active_transactions_enum: STRING
- header_waits: REAL
- header_waits_enum: STRING
- header_gets: REAL
- header_gets_enum: STRING
- buffer_busy_wait_pct: REAL
- buffer_busy_wait_pct_enum: STRING
- optimal_size: REAL
- optimal_size_enum: STRING
- high_water_mark_size: REAL
- high_water_mark_size_enum: STRING
- segment_shrinks: REAL
- segment_shrinks_enum: STRING
- segment_wraps: REAL
- segment_wraps_enum: STRING
- segment_extends: REAL
- segment_extends_enum: STRING
- avg_shrink_size: REAL
- avg_shrink_size_enum: STRING
- avg_active_extents_size: REAL
- avg_active_extents_size_enum: STRING
- segment_status: STRING
- segment_status_enum: STRING
- current_extent_number: REAL
- current_extent_number_enum: STRING
- current_block_number: REAL
- current_block_number_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Rollback Segment Summary attribute group, events are sent using the ITM_KRZ_RDB_ROLLBACK_SEGMENT_SUMMARY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- total_online_rollback_segments: REAL
- total_online_rollback_segments_enum: STRING
- total_rollback_segments: REAL

- total_rollback_segments_enum: STRING
- total_segments_needing_recovery: REAL
- total_segments_needing_recovery_enum: STRING
- total_segments_pending_offline: REAL
- total_segments_pending_offline_enum: STRING
- total_rollback_extents: REAL
- total_rollback_extents_enum: STRING
- avg_extents_per_segment: REAL
- avg_extents_per_segment_enum: STRING
- size_of_active_segments: REAL
- size_of_active_segments_enum: STRING
- total_active_transactions: REAL
- total_active_transactions_enum: STRING
- avg_transactions_per_segment: REAL
- avg_transactions_per_segment_enum: STRING
- buffer_busy_wait_pct: REAL
- buffer_busy_wait_pct_enum: STRING
- total_header_waits: REAL
- total_header_waits_enum: STRING
- total_header_gets: REAL
- total_header_gets_enum: STRING
- total_segment_shrinks: REAL
- total_segment_shrinks_enum: STRING
- total_segment_extends: REAL
- total_segment_extends_enum: STRING
- pct_segment_needing_recovery: REAL
- pct_segment_needing_recovery_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Segment Allocation attribute group, events are sent using the ITM_KRZ_RDB_SEGMENT_ALLOCATION event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- segment_owner: STRING
- segment_name: STRING
- partition_name: STRING
- segment_type: STRING
- lob_segment_subtype: STRING
- tablespace_name: STRING
- header_file_id: REAL
- header_file_id_enum: STRING
- header_block_id: REAL
- header_block_id_enum: STRING

- segment_size_bytes: REAL
- segment_size_bytes_enum: STRING
- segment_size_kb: REAL
- segment_size_kb_enum: STRING
- segment_size_mb: REAL
- segment_size_mb_enum: STRING
- block_size: REAL
- block_size_enum: STRING
- extents_number: REAL
- extents_number_enum: STRING
- initial_extent_size_bytes: REAL
- initial_extent_size_bytes_enum: STRING
- next_extent_bytes: REAL
- next_extent_bytes_enum: STRING
- minimum_extents_number: REAL
- minimum_extents_number_enum: STRING
- maximum_extents_number: REAL
- maximum_extents_number_enum: STRING
- maximum_block_number: REAL
- maximum_block_number_enum: STRING
- retention: STRING
- minimum_retention_duration: REAL
- minimum_retention_duration_enum: STRING
- increase_percentage: REAL
- increase_percentage_enum: STRING
- process_freelists_number: REAL
- process_freelists_number_enum: STRING
- freelist_groups_number: REAL
- freelist_groups_number_enum: STRING
- relative_file_number: REAL
- relative_file_number_enum: STRING
- default_buffer_pool: STRING
- default_buffer_pool_enum: STRING
- free_extents: REAL
- free_extents_enum: STRING
- percentage_free_extents: REAL
- percentage_free_extents_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Segment Statistics attribute group, events are sent using the ITM_KRZ_RDB_SEGMENT_STATISTICS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING

- instance_id: REAL
- instance_id_enum: STRING
- object_owner: STRING
- object_name: STRING
- subobject_name: STRING
- tablespace_name: STRING
- tablespace_number: REAL
- tablespace_number_enum: STRING
- object_number: REAL
- object_number_enum: STRING
- data_object_number: REAL
- data_object_number_enum: STRING
- object_type: STRING
- statistic_value: REAL
- statistic_value_enum: STRING
- statistic_number: INTEGER
- statistic_number_enum: STRING
- statistic_name: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Session Details attribute group, events are sent using the ITM_KRZ_RDB_SESSION_DETAILS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- session_address: STRING
- session_id: REAL
- session_id_enum: STRING
- serial_number: REAL
- serial_number_enum: STRING
- auditing_sid: REAL
- auditing_sid_enum: STRING
- process_address: STRING
- user_id: REAL
- user_id_enum: STRING
- username: STRING
- command: REAL
- command_enum: STRING
- owner_id: REAL
- owner_id_enum: STRING
- block_gets: REAL
- block_gets_enum: STRING

- consistent_gets: REAL
- consistent_gets_enum: STRING
- physical_reads: REAL
- physical_reads_enum: STRING
- session_hit_percent: REAL
- session_hit_percent_enum: STRING
- block_changes: REAL
- block_changes_enum: STRING
- consistent_changes: REAL
- consistent_changes_enum: STRING
- transaction_state_object_address: STRING
- lock_wait: STRING
- krz_status: STRING
- krz_status_enum: STRING
- sql_address: STRING
- sql_hash_value: REAL
- sql_hash_value_enum: STRING
- sql_id: STRING
- sql_child_number: REAL
- sql_child_number_enum: STRING
- previous_sql_address: STRING
- previous_sql_value: REAL
- previous_sql_value_enum: STRING
- previous_sql_id: STRING
- previous_sql_number: REAL
- previous_sql_number_enum: STRING
- module: STRING
- module_hash: REAL
- module_hash_enum: STRING
- action: STRING
- action_hash: REAL
- action_hash_enum: STRING
- client_information: STRING
- fixed_table_sequence: REAL
- fixed_table_sequence_enum: STRING
- row_wait_object_number: REAL
- row_wait_object_number_enum: STRING
- row_wait_file_number: REAL
- row_wait_file_number_enum: STRING
- row_wait_block_number: REAL
- row_wait_block_number_enum: STRING
- row_wait_row_number: REAL
- row_wait_row_number_enum: STRING
- blocking_session_status: STRING
- blocking_session_status_enum: STRING

- blocking_instance: REAL
- blocking_instance_enum: STRING
- blocking_session: REAL
- blocking_session_enum: STRING
- sequence_number: REAL
- sequence_number_enum: STRING
- event_number: REAL
- event_number_enum: STRING
- event: STRING
- parameter_1_description: STRING
- parameter_1_in_decimal: REAL
- parameter_1_in_decimal_enum: STRING
- parameter_1_in_hexadecimal: STRING
- parameter_2_description: STRING
- parameter_2_in_decimal: REAL
- parameter_2_in_decimal_enum: STRING
- parameter_2_in_hexadecimal: STRING
- parameter_3_description: STRING
- parameter_3_in_decimal: REAL
- parameter_3_in_decimal_enum: STRING
- parameter_3_in_hexadecimal: STRING
- wait_class_id: REAL
- wait_class_id_enum: STRING
- wait_class_number: REAL
- wait_class_number_enum: STRING
- wait_class: STRING
- wait_time: REAL
- wait_time_enum: STRING
- seconds_in_wait: REAL
- seconds_in_wait_enum: STRING
- state: STRING
- state_enum: STRING
- server_type: STRING
- server_type_enum: STRING
- schema_user_id: REAL
- schema_user_id_enum: STRING
- schema_user_name: STRING
- os_user: STRING
- process_id: STRING
- machine_name: STRING
- terminal_name: STRING
- program_name: STRING
- session_type: STRING
- logon_time: STRING
- last_call_et: REAL

- last_call_et_enum: STRING
- pdml_enabled: STRING
- pdml_enabled_enum: STRING
- failover_type: STRING
- failover_type_enum: STRING
- failover_method: STRING
- failover_method_enum: STRING
- failed_over: STRING
- failed_over_enum: STRING
- resource_consumer_group: STRING
- pdml_status: STRING
- pdml_status_enum: STRING
- pddl_status: STRING
- pddl_status_enum: STRING
- pq_status: STRING
- pq_status_enum: STRING
- current_queue_duration: REAL
- current_queue_duration_enum: STRING
- client_id: STRING
- service_name: STRING
- sql_trace: STRING
- sql_trace_enum: STRING
- sql_trace_waits: STRING
- sql_trace_waits_enum: STRING
- sql_trace_bindings: STRING
- sql_trace_bindings_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Session Summary attribute group, events are sent using the ITM_KRZ_RDB_SESSION_SUMMARY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- total_session_count: REAL
- total_session_count_enum: STRING
- shared_session_count: REAL
- shared_session_count_enum: STRING
- dedicated_session_count: REAL
- dedicated_session_count_enum: STRING
- none_session_count: REAL
- none_session_count_enum: STRING
- pseudo_session_count: REAL

- pseudo_session_count_enum: STRING
- active_session_count: REAL
- active_session_count_enum: STRING
- inactive_session_count: REAL
- inactive_session_count_enum: STRING
- killed_session_count: REAL
- killed_session_count_enum: STRING
- cached_session_count: REAL
- cached_session_count_enum: STRING
- sniped_session_count: REAL
- sniped_session_count_enum: STRING
- wait_session_count: REAL
- wait_session_count_enum: STRING
- user_session_count: REAL
- user_session_count_enum: STRING
- background_session_count: REAL
- background_session_count_enum: STRING
- dedicated_user_session_count: REAL
- dedicated_user_session_count_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Session Wait attribute group, events are sent using the ITM_KRZ_RDB_SESSION_WAIT event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- instance_name: STRING
- event: STRING
- file_number: REAL
- file_number_enum: STRING
- block_number: REAL
- block_number_enum: STRING
- wait_time: REAL
- wait_time_enum: STRING
- display_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB SGA Detail attribute group, events are sent using the ITM_KRZ_RDB_SGA_DETAIL event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL

- instance_id_enum: STRING
- pool_resides: STRING
- component_name: STRING
- memory_size_byte: REAL
- memory_size_byte_enum: STRING
- memory_size_kb: REAL
- memory_size_kb_enum: STRING
- memory_size_mb: REAL
- memory_size_mb_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB SGA Overview attribute group, events are sent using the ITM_KRZ_RDB_SGA_OVERVIEW event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- database_buffers_bytes: REAL
- database_buffers_bytes_enum: STRING
- database_buffers_kb: REAL
- database_buffers_kb_enum: STRING
- database_buffers_mb: REAL
- database_buffers_mb_enum: STRING
- fixed_size_bytes: REAL
- fixed_size_bytes_enum: STRING
- fixed_size_kb: REAL
- fixed_size_kb_enum: STRING
- fixed_size_mb: REAL
- fixed_size_mb_enum: STRING
- redo_buffers_bytes: REAL
- redo_buffers_bytes_enum: STRING
- redo_buffers_kb: REAL
- redo_buffers_kb_enum: STRING
- redo_buffers_mb: REAL
- redo_buffers_mb_enum: STRING
- variable_size_bytes: REAL
- variable_size_bytes_enum: STRING
- variable_size_kb: REAL
- variable_size_kb_enum: STRING
- variable_size_mb: REAL
- variable_size_mb_enum: STRING
- total_sga_bytes: REAL
- total_sga_bytes_enum: STRING

- total_sga_kb: REAL
- total_sga_kb_enum: STRING
- total_sga_mb: REAL
- total_sga_mb_enum: STRING
- free_total_sga_bytes: REAL
- free_total_sga_bytes_enum: STRING
- free_total_sga_kb: REAL
- free_total_sga_kb_enum: STRING
- free_total_sga_mb: REAL
- free_total_sga_mb_enum: STRING
- free_sga_percent: REAL
- free_sga_percent_enum: STRING
- used_sga_percent: REAL
- used_sga_percent_enum: STRING
- shared_pool_bytes: REAL
- shared_pool_bytes_enum: STRING
- shared_pool_kb: REAL
- shared_pool_kb_enum: STRING
- shared_pool_mb: REAL
- shared_pool_mb_enum: STRING
- free_shared_pool_bytes: REAL
- free_shared_pool_bytes_enum: STRING
- free_shared_pool_kb: REAL
- free_shared_pool_kb_enum: STRING
- free_shared_pool_mb: REAL
- free_shared_pool_mb_enum: STRING
- free_shared_pool_percent: REAL
- free_shared_pool_percent_enum: STRING
- used_shared_pool_percent: REAL
- used_shared_pool_percent_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB SGA Size attribute group, events are sent using the ITM_KRZ_RDB_SGA_SIZE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- buffer_cache_bytes: REAL
- buffer_cache_bytes_enum: STRING
- buffer_cache_kb: REAL
- buffer_cache_kb_enum: STRING
- buffer_cache_mb: REAL

- buffer_cache_mb_enum: STRING
- buffer_cache_percentage: REAL
- buffer_cache_percentage_enum: STRING
- fixed_sga_bytes: REAL
- fixed_sga_bytes_enum: STRING
- fixed_sga_kb: REAL
- fixed_sga_kb_enum: STRING
- fixed_sga_mb: REAL
- fixed_sga_mb_enum: STRING
- free_sga_available_bytes: REAL
- free_sga_available_bytes_enum: STRING
- free_sga_available_kb: REAL
- free_sga_available_kb_enum: STRING
- free_sga_available_mb: REAL
- free_sga_available_mb_enum: STRING
- granule_size_bytes: REAL
- granule_size_bytes_enum: STRING
- granule_size_kb: REAL
- granule_size_kb_enum: STRING
- granule_size_mb: REAL
- granule_size_mb_enum: STRING
- java_pool_size_bytes: REAL
- java_pool_size_bytes_enum: STRING
- java_pool_size_kb: REAL
- java_pool_size_kb_enum: STRING
- java_pool_size_mb: REAL
- java_pool_size_mb_enum: STRING
- java_pool_size_percentage: REAL
- java_pool_size_percentage_enum: STRING
- large_pool_size_bytes: REAL
- large_pool_size_bytes_enum: STRING
- large_pool_size_kb: REAL
- large_pool_size_kb_enum: STRING
- large_pool_size_mb: REAL
- large_pool_size_mb_enum: STRING
- large_pool_size_percentage: REAL
- large_pool_size_percentage_enum: STRING
- maximum_sga_size_bytes: REAL
- maximum_sga_size_bytes_enum: STRING
- maximum_sga_size_kb: REAL
- maximum_sga_size_kb_enum: STRING
- maximum_sga_size_mb: REAL
- maximum_sga_size_mb_enum: STRING
- redo_buffers_bytes: REAL
- redo_buffers_bytes_enum: STRING

- redo_buffers_kb: REAL
- redo_buffers_kb_enum: STRING
- redo_buffers_mb: REAL
- redo_buffers_mb_enum: STRING
- shared_io_pool_size_bytes: REAL
- shared_io_pool_size_bytes_enum: STRING
- shared_io_pool_size_kb: REAL
- shared_io_pool_size_kb_enum: STRING
- shared_io_pool_size_mb: REAL
- shared_io_pool_size_mb_enum: STRING
- shared_pool_size_bytes: REAL
- shared_pool_size_bytes_enum: STRING
- shared_pool_size_kb: REAL
- shared_pool_size_kb_enum: STRING
- shared_pool_size_mb: REAL
- shared_pool_size_mb_enum: STRING
- shared_pool_size_percentage: REAL
- shared_pool_size_percentage_enum: STRING
- startup_overhead_bytes: REAL
- startup_overhead_bytes_enum: STRING
- startup_overhead_kb: REAL
- startup_overhead_kb_enum: STRING
- startup_overhead_mb: REAL
- startup_overhead_mb_enum: STRING
- streams_pool_size_bytes: REAL
- streams_pool_size_bytes_enum: STRING
- streams_pool_size_kb: REAL
- streams_pool_size_kb_enum: STRING
- streams_pool_size_mb: REAL
- streams_pool_size_mb_enum: STRING
- other_size_percentage: REAL
- other_size_percentage_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB SQLTEXT attribute group, events are sent using the ITM_KRZ_RDB_SQLTEXT event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- dbid: REAL
- dbid_enum: STRING
- address: STRING
- address_enum: STRING
- sql_id: STRING

- piece: REAL
- piece_enum: STRING
- sql_text: STRING
- command_type: REAL
- command_type_enum: STRING

For events generated by situations in the RDB Sys Metric attribute group, events are sent using the ITM_KRZ_RDB_SYS_METRIC event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- begin_time: STRING
- end_time: STRING
- int_size_csec: REAL
- int_size_csec_enum: STRING
- group_id: REAL
- group_id_enum: STRING
- metric_id: REAL
- metric_id_enum: STRING
- metric_name: STRING
- metric_value: REAL
- metric_value_enum: STRING
- metric_unit: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Sys Metric Growth Percent attribute group, events are sent using the ITM_KRZ_RDB_SYS_METRIC_GROWTH_PERCENT event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- start_time: STRING
- end_time: STRING
- current_value: REAL
- current_value_enum: STRING
- average: REAL
- average_enum: STRING
- maximum_value_observed: REAL
- maximum_value_observed_enum: STRING
- minimum_value_observed: REAL
- minimum_value_observed_enum: STRING
- metric_growth_percent: REAL
- metric_growth_percent_enum: STRING
- standard_deviation: REAL

- standard_deviation_enum: STRING
- group_id: REAL
- group_id_enum: STRING
- metric_name: STRING
- metric_id: REAL
- metric_id_enum: STRING
- metric_unit: STRING
- instance_id: REAL
- instance_id_enum: STRING
- name_instance_id: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Sys Metric History attribute group, events are sent using the ITM_KRZ_RDB_SYS_METRIC_HISTORY event class. This event class contains the following slots:
- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- begin_time: STRING
- end_time: STRING
- int_size_csec: REAL
- int_size_csec_enum: STRING
- group_id: REAL
- group_id_enum: STRING
- metric_id: REAL
- metric_id_enum: STRING
- metric_name: STRING
- metric_value: REAL
- metric_value_enum: STRING
- metric_unit: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Sys Statistics attribute group, events are sent using the ITM_KRZ_RDB_SYS_STATISTICS event class. This event class contains the following slots:
- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- statistic_number: REAL
- statistic_number_enum: STRING
- statistic_name: STRING
- statistic_class: REAL

- statistic_class_enum: STRING
- statistic_value: REAL
- statistic_value_enum: STRING
- statistic_id: REAL
- statistic_id_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING
- delta_value: REAL
- delta_value_enum: STRING

For events generated by situations in the RDB Table Num Rows attribute group, events are sent using the ITM_KRZ_RDB_TABLE_NUM_ROWS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- owner: STRING
- table_name: STRING
- tablespace_name: STRING
- num_rows: REAL
- num_rows_enum: STRING
- show_name: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Table Size attribute group, events are sent using the ITM_KRZ_RDB_TABLE_SIZE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- owner: STRING
- table_name: STRING
- tablespace_name: STRING
- table_size_bytes: REAL
- table_size_bytes_enum: STRING
- table_size_kb: REAL
- table_size_kb_enum: STRING
- table_size_mb: REAL
- table_size_mb_enum: STRING
- show_name: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Tables attribute group, events are sent using the ITM_KRZ_RDB_TABLES event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING

- owner: STRING
- table_name: STRING
- tablespace_name: STRING
- cluster_name: STRING
- iot_name: STRING
- krz_status: STRING
- krz_status_enum: STRING
- pct_free: REAL
- pct_free_enum: STRING
- pct_used: REAL
- pct_used_enum: STRING
- initial_transactions: REAL
- initial_transactions_enum: STRING
- max_transactions: REAL
- max_transactions_enum: STRING
- initial_extent_size_bytes: REAL
- initial_extent_size_bytes_enum: STRING
- initial_extent_size_kb: REAL
- initial_extent_size_kb_enum: STRING
- initial_extent_size_mb: REAL
- initial_extent_size_mb_enum: STRING
- next_extent_size_bytes: REAL
- next_extent_size_bytes_enum: STRING
- next_extent_size_kb: REAL
- next_extent_size_kb_enum: STRING
- next_extent_size_mb: REAL
- next_extent_size_mb_enum: STRING
- min_extents: REAL
- min_extents_enum: STRING
- max_extents: REAL
- max_extents_enum: STRING
- increase_percentage: REAL
- increase_percentage_enum: STRING
- freelists: REAL
- freelists_enum: STRING
- freelists_groups: REAL
- freelists_groups_enum: STRING
- logging: STRING
- logging_enum: STRING
- backed_up: STRING
- backed_up_enum: STRING
- num_rows: REAL
- num_rows_enum: STRING
- blocks: REAL
- blocks_enum: STRING

- empty_blocks: REAL
- empty_blocks_enum: STRING
- average_free_space: REAL
- average_free_space_enum: STRING
- chain_cnt: REAL
- chain_cnt_enum: STRING
- average_row_length: REAL
- average_row_length_enum: STRING
- average_freespace: REAL
- average_freespace_enum: STRING
- number_blocks: REAL
- number_blocks_enum: STRING
- degree: STRING
- instances: STRING
- cache: STRING
- cache_enum: STRING
- table_lock: STRING
- table_lock_enum: STRING
- sample_size: REAL
- sample_size_enum: STRING
- last_analyzed: STRING
- partitioned: STRING
- partitioned_enum: STRING
- iot_type: STRING
- iot_type_enum: STRING
- temporary: STRING
- temporary_enum: STRING
- secondary: STRING
- secondary_enum: STRING
- nested: STRING
- nested_enum: STRING
- buffer_pool: STRING
- buffer_pool_enum: STRING
- row_movement: STRING
- row_movement_enum: STRING
- global_stats: STRING
- global_stats_enum: STRING
- user_stats: STRING
- user_stats_enum: STRING
- krz_duration: STRING
- krz_duration_enum: STRING
- skip_corrupt: STRING
- skip_corrupt_enum: STRING
- monitoring: STRING
- monitoring_enum: STRING

- cluster_owner: STRING
- dependencies: STRING
- dependencies_enum: STRING
- compression: STRING
- compression_enum: STRING
- compress_for: STRING
- compress_for_enum: STRING
- dropped: STRING
- dropped_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Tablespace Overview attribute group, events are sent using the ITM_KRZ_RDB_TABLESPACE_OVERVIEW event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- tablespace_name: STRING
- block_size_bytes: REAL
- block_size_bytes_enum: STRING
- initial_extent_bytes: REAL
- initial_extent_bytes_enum: STRING
- initial_extent_kb: REAL
- initial_extent_kb_enum: STRING
- initial_extent_mb: REAL
- initial_extent_mb_enum: STRING
- increment_extent_bytes: REAL
- increment_extent_bytes_enum: STRING
- increment_extent_kb: REAL
- increment_extent_kb_enum: STRING
- increment_extent_mb: REAL
- increment_extent_mb_enum: STRING
- minimum_extents_bytes: REAL
- minimum_extents_bytes_enum: STRING
- maximum_extents_number: REAL
- maximum_extents_number_enum: STRING
- max_segment_size_bytes: REAL
- max_segment_size_bytes_enum: STRING
- max_segment_size_kb: REAL
- max_segment_size_kb_enum: STRING
- max_segment_size_mb: REAL
- max_segment_size_mb_enum: STRING
- percent_increase: REAL
- percent_increase_enum: STRING
- minimun_extent: REAL

- minimun_extent_enum: STRING
- tablespace_status: STRING
- tablespace_status_enum: STRING
- tablespace_contents: STRING
- tablespace_contents_enum: STRING
- default_logging: STRING
- default_logging_enum: STRING
- force_logging: STRING
- force_logging_enum: STRING
- extent_management: STRING
- extent_management_enum: STRING
- allocation_type: STRING
- allocation_type_enum: STRING
- plugged_in: STRING
- plugged_in_enum: STRING
- segment_space_management: STRING
- segment_space_management_enum: STRING
- default_table_compression: STRING
- default_table_compression_enum: STRING
- undo_tablespace_retention: STRING
- undo_tablespace_retention_enum: STRING
- big_file: STRING
- big_file_enum: STRING
- predicate_evaluation: STRING
- predicate_evaluation_enum: STRING
- encrypted: STRING
- encrypted_enum: STRING
- default_compression_operations: STRING
- default_compression_operations_enum: STRING
- included_backup: STRING
- included_backup_enum: STRING
- flashback_on: STRING
- flashback_on_enum: STRING
- tablespace_encryption: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB TablespaceNormal Usage attribute group, events are sent using the ITM_KRZ_RDB_TABLESPACENORMAL_USAGE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- tablespace_name: STRING
- tablespace_name_enum: STRING
- allocation_size_kb: REAL

- allocation_size_kb_enum: STRING
- allocation_size_mb: REAL
- allocation_size_mb_enum: STRING
- used_size_kb: REAL
- used_size_kb_enum: STRING
- used_size_mb: REAL
- used_size_mb_enum: STRING
- free_size_kb: REAL
- free_size_kb_enum: STRING
- free_size_mb: REAL
- free_size_mb_enum: STRING
- percentage_used: REAL
- percentage_used_enum: STRING
- percentage_free_to_allocated: REAL
- percentage_free_to_allocated_enum: STRING
- file_largest_size_kb: REAL
- file_largest_size_kb_enum: STRING
- file_largest_size_mb: REAL
- file_largest_size_mb_enum: STRING
- maximum_file_size_kb: REAL
- maximum_file_size_kb_enum: STRING
- maximum_file_size_mb: REAL
- maximum_file_size_mb_enum: STRING
- percentage_allocated: REAL
- percentage_allocated_enum: STRING
- tablespace_fragment: REAL
- tablespace_fragment_enum: STRING
- percentage_free_to_maximum: REAL
- percentage_free_to_maximum_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB TablespaceTemp Usage attribute group, events are sent using the ITM_KRZ_RDB_TABLESPACETEMP_USAGE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- tablespace_name: STRING
- allocation_size_kb: REAL
- allocation_size_kb_enum: STRING
- allocation_size_mb: REAL
- allocation_size_mb_enum: STRING
- used_size_kb: REAL
- used_size_kb_enum: STRING
- used_size_mb: REAL

- used_size_mb_enum: STRING
- percentage_used: REAL
- percentage_used_enum: STRING
- percentage_free: REAL
- percentage_free_enum: STRING
- maximum_size_kb: REAL
- maximum_size_kb_enum: STRING
- maximum_size_mb: REAL
- maximum_size_mb_enum: STRING
- percentage_allocated: REAL
- percentage_allocated_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB TempFile Overview attribute group, events are sent using the ITM_KRZ_RDB_TEMPFILE_OVERVIEW event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- file_name: STRING
- file_id: REAL
- file_id_enum: STRING
- tablespace_name: STRING
- file_size_bytes: REAL
- file_size_bytes_enum: STRING
- file_size_kb: REAL
- file_size_kb_enum: STRING
- file_size_mb: REAL
- file_size_mb_enum: STRING
- blocks_number: REAL
- blocks_number_enum: STRING
- file_status: STRING
- file_status_enum: STRING
- relative_file_number: REAL
- relative_file_number_enum: STRING
- auto_extent: STRING
- auto_extent_enum: STRING
- maximum_file_size_bytes: REAL
- maximum_file_size_bytes_enum: STRING
- maximum_file_size_kb: REAL
- maximum_file_size_kb_enum: STRING
- maximum_file_size_mb: REAL
- maximum_file_size_mb_enum: STRING
- maximum_block_number: REAL
- maximum_block_number_enum: STRING

- block_increment_number: REAL
- block_increment_number_enum: STRING
- user_data_size_bytes: REAL
- user_data_size_bytes_enum: STRING
- user_data_size_kb: REAL
- user_data_size_kb_enum: STRING
- user_data_size_mb: REAL
- user_data_size_mb_enum: STRING
- percentage_user_data: REAL
- percentage_user_data_enum: STRING
- user_blocks_number: REAL
- user_blocks_number_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Top SQL attribute group, events are sent using the ITM_KRZ_RDB_TOP_SQL event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- dbid: REAL
- dbid_enum: STRING
- instance_id: REAL
- instance_id_enum: STRING
- sql_id: STRING
- plan_hash_value: REAL
- plan_hash_value_enum: STRING
- begin_snap_id: REAL
- begin_snap_id_enum: STRING
- end_snap_id: REAL
- end_snap_id_enum: STRING
- startup_time: STRING
- begin_interval: STRING
- end_interval: STRING
- optimizer_cost: REAL
- optimizer_cost_enum: STRING
- optimizer_mode: STRING
- optimizer_hash_value: REAL
- optimizer_hash_value_enum: STRING
- sharable_mem: REAL
- sharable_mem_enum: STRING
- sharable_mem_kb: REAL
- sharable_mem_kb_enum: STRING
- loaded_versions: REAL
- loaded_versions_enum: STRING

- version_count: REAL
- version_count_enum: STRING
- module: STRING
- action: STRING
- sql_profile: STRING
- force_matching_signature: REAL
- force_matching_signature_enum: STRING
- parsing_schema_id: REAL
- parsing_schema_id_enum: STRING
- parsing_schema_name: STRING
- fetches_total: REAL
- fetches_total_enum: STRING
- fetches_delta: REAL
- fetches_delta_enum: STRING
- fetch_count_total: REAL
- fetch_count_total_enum: STRING
- fetch_count_delta: REAL
- fetch_count_delta_enum: STRING
- sorts_total: REAL
- sorts_total_enum: STRING
- sorts_delta: REAL
- sorts_delta_enum: STRING
- executions_total: REAL
- executions_total_enum: STRING
- execution_delta: REAL
- execution_delta_enum: STRING
- px_servers_exec_total: REAL
- px_servers_exec_total_enum: STRING
- px_servers_exec_delta: REAL
- px_servers_exec_delta_enum: STRING
- loads_total: REAL
- loads_total_enum: STRING
- loads_delta: REAL
- loads_delta_enum: STRING
- invalidations_total: REAL
- invalidations_total_enum: STRING
- invalidations_delta: REAL
- invalidations_delta_enum: STRING
- parse_calls_total: REAL
- parse_calls_total_enum: STRING
- parse_calls_delta: REAL
- parse_calls_delta_enum: STRING
- disk_reads_total: REAL
- disk_reads_total_enum: STRING
- disk_reads_delta: REAL

- disk_reads_delta_enum: STRING
- buffer_gets_total: REAL
- buffer_gets_total_enum: STRING
- buffer_gets_delta: REAL
- buffer_gets_delta_enum: STRING
- rows_processed_total: REAL
- rows_processed_total_enum: STRING
- rows_processed_delta: REAL
- rows_processed_delta_enum: STRING
- cpu_time_total: REAL
- cpu_time_total_enum: STRING
- cpu_time_delta: REAL
- cpu_time_delta_enum: STRING
- elapsed_time_total: REAL
- elapsed_time_total_enum: STRING
- elapsed_time_delta: REAL
- elapsed_time_delta_enum: STRING
- io_wait_total: REAL
- io_wait_total_enum: STRING
- io_wait_delta: REAL
- io_wait_delta_enum: STRING
- cluster_wait_total: REAL
- cluster_wait_total_enum: STRING
- cluster_wait_delta: REAL
- cluster_wait_delta_enum: STRING
- app_wait_total: REAL
- app_wait_total_enum: STRING
- app_wait_delta: REAL
- app_wait_delta_enum: STRING
- concurrency_wait_total: REAL
- concurrency_wait_total_enum: STRING
- concurrency_wait_delta: REAL
- concurrency_wait_delta_enum: STRING
- direct_writes_total: REAL
- direct_writes_total_enum: STRING
- direct_writes_delta: REAL
- direct_writes_delta_enum: STRING
- pl_exec_time_total: REAL
- pl_exec_time_total_enum: STRING
- pl_exec_time_delta: REAL
- pl_exec_time_delta_enum: STRING
- java_exec_time_total: REAL
- java_exec_time_total_enum: STRING
- java_exec_time_delta: REAL
- java_exec_time_delta_enum: STRING

- elapse_time_per_exec: REAL
- elapse_time_per_exec_enum: STRING
- cpu_time_per_exec: REAL
- cpu_time_per_exec_enum: STRING
- gets_per_exec: REAL
- gets_per_exec_enum: STRING
- disk_reads_per_exec: REAL
- disk_reads_per_exec_enum: STRING
- rows_per_exec: REAL
- rows_per_exec_enum: STRING
- cpu_pct: REAL
- cpu_pct_enum: STRING
- cluster_wait_pct: REAL
- cluster_wait_pct_enum: STRING
- dbtime_pct: REAL
- dbtime_pct_enum: STRING
- buffer_gets_pct: REAL
- buffer_gets_pct_enum: STRING
- disk_reads_pct: REAL
- disk_reads_pct_enum: STRING
- parse_calls_pct: REAL
- parse_calls_pct_enum: STRING
- sharable_mem_pct: REAL
- sharable_mem_pct_enum: STRING
- version_count_pct: REAL
- version_count_pct_enum: STRING
- orderby: STRING
- beg_hour: REAL
- beg_hour_enum: STRING
- end_hour: REAL
- end_hour_enum: STRING
- roworder: REAL
- roworder_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB TSFile Metric attribute group, events are sent using the ITM_KRZ_RDB_TSFILE_METRIC event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- begin_time: STRING
- end_time: STRING

- interval_size_ms: REAL
- interval_size_ms_enum: STRING
- file_id: REAL
- file_id_enum: STRING
- file_creation_timestamp: REAL
- file_creation_timestamp_enum: STRING
- average_file_read_time_ms: REAL
- average_file_read_time_ms_enum: STRING
- average_file_write_time_ms: REAL
- average_file_write_time_ms_enum: STRING
- physical_reads: REAL
- physical_reads_enum: STRING
- physical_writes: REAL
- physical_writes_enum: STRING
- physical_block_reads: REAL
- physical_block_reads_enum: STRING
- physical_block_writes: REAL
- physical_block_writes_enum: STRING
- tablespace_name: STRING
- file_name: STRING
- file_creation_time: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the RDB Undo Statistics attribute group, events are sent using the ITM_KRZ_RDB_UNDO_STATISTICS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- instance_id: REAL
- instance_id_enum: STRING
- begin_time: STRING
- end_time: STRING
- last_active_undo_tablespace: REAL
- last_active_undo_tablespace_enum: STRING
- undo_blocks: REAL
- undo_blocks_enum: STRING
- transaction_count: REAL
- transaction_count_enum: STRING
- max_sql_length: REAL
- max_sql_length_enum: STRING
- max_sql_id: STRING
- max_concurrency: REAL
- max_concurrency_enum: STRING
- stealing_unexpired_extents_attempts: REAL

- stealing_unexpired_extents_attempts_enum: STRING
- removing_unexpired_blocks_count: REAL
- removing_unexpired_blocks_count_enum: STRING
- unexpired_blocks_reuse_count: REAL
- unexpired_blocks_reuse_count_enum: STRING
- expired_blocks_stealing_attempts: REAL
- expired_blocks_stealing_attempts_enum: STRING
- expired_blocks_rel_count: REAL
- expired_blocks_rel_count_enum: STRING
- expired_blocks_reuse_count: REAL
- expired_blocks_reuse_count_enum: STRING
- snapshot_old_error_count: REAL
- snapshot_old_error_count_enum: STRING
- no_space_error_count: REAL
- no_space_error_count_enum: STRING
- active_blocks: REAL
- active_blocks_enum: STRING
- unexpired_blocks: REAL
- unexpired_blocks_enum: STRING
- expired_blocks: REAL
- expired_blocks_enum: STRING
- tuned_undo_retention: REAL
- tuned_undo_retention_enum: STRING
- instance_name: STRING
- server_name: STRING
- database_name: STRING

For events generated by situations in the Take Action Status attribute group, events are sent using the ITM_KRZ_TAKE_ACTION_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- action_name: STRING
- action_status: INTEGER
- action_status_enum: STRING
- action_app_return_code: INTEGER
- action_message: STRING
- action_instance: STRING
- action_results: STRING
- action_command: STRING
- action_node: STRING
- action_subnode: STRING
- action_id: INTEGER
- action_type: INTEGER
- action_type_enum: STRING
- action_owner: STRING

For events generated by situations in the Thread Pool Status attribute group, events are sent using the ITM_KRZ_THREAD_POOL_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- thread_pool_size: INTEGER
- thread_pool_size_enum: STRING
- thread_pool_max_size: INTEGER
- thread_pool_max_size_enum: STRING
- thread_pool_active_threads: INTEGER
- thread_pool_active_threads_enum: STRING
- thread_pool_avg_active_threads: REAL
- thread_pool_avg_active_threads_enum: STRING
- thread_pool_min_active_threads: INTEGER
- thread_pool_min_active_threads_enum: STRING
- thread_pool_max_active_threads: INTEGER
- thread_pool_max_active_threads_enum: STRING
- thread_pool_queue_length: INTEGER
- thread_pool_queue_length_enum: STRING
- thread_pool_avg_queue_length: REAL
- thread_pool_avg_queue_length_enum: STRING
- thread_pool_min_queue_length: INTEGER
- thread_pool_min_queue_length_enum: STRING
- thread_pool_max_queue_length: INTEGER
- thread_pool_max_queue_length_enum: STRING
- thread_pool_avg_job_wait: REAL
- thread_pool_avg_job_wait_enum: STRING
- thread_pool_total_jobs: INTEGER
- thread_pool_total_jobs_enum: STRING

Appendix B. Supported Oracle Call Interface client library versions

Put your short description here; used for first paragraph and abstract.

Table 16 shows the versions of the Oracle Call Interface (OCI) library that are supported by the Oracle Database Extended agent on each platform.

Table 16. Supported OCI library for each platform

Platform	Operating system	OCI library version
AIX/PowerPC	• AIX V6.1 • AIX V5.3	32/64 bit
HP-UX/Itanium	• HP-UX 11i v3 • HP-UX 11i v2	64 bit
Linux/x86	• SUSE Linux Enterprise Server (SLES) 11.0 • SUSE Linux Enterprise Server (SLES) 10.0 • SUSE Linux Enterprise Server (SLES) 9.0 • Red Hat Enterprise Linux (RHEL) AS/ES - 5.0 • Red Hat Enterprise Linux (RHEL) AS/ES - 4.0	32/64 bit
Linux/zOS	• SUSE Linux Enterprise Server (SLES) - 11.0 • SUSE Linux Enterprise Server (SLES) - 10.0 • SUSE Linux Enterprise Server (SLES) - 9.0 • Red Hat Enterprise Linux (RHEL) AS/ES - 5.0 • Red Hat Enterprise Linux (RHEL) AS/ES - 4.0	32/64 bit
Linux/PowerPC	• SUSE Linux Enterprise Server (SLES) - 11.0 • SUSE Linux Enterprise Server (SLES) - 10.0 • SUSE Linux Enterprise Server (SLES) - 9.0 • Red Hat Enterprise Linux (RHEL) AS/ES - 5.0 • Red Hat Enterprise Linux (RHEL) AS/ES - 4.0	64 bit

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Table 16. Supported OCI library for each platform (continued)

Platform	Operating system	OCI library version
Linux/Itanium	• SUSE Linux Enterprise Server (SLES) 11.0 • SUSE Linux Enterprise Server (SLES) 10.0 • SUSE Linux Enterprise Server (SLES) 9.0 • Red Hat Enterprise Linux (RHEL) AS/ES - 5.0 • Red Hat Enterprise Linux (RHEL) AS/ES - 4.0	64 bit
Windows/x86	• Windows XP Professional SP3 • Windows Server 2008 Datacenter Edition • Windows Server 2008 Enterprise Edition • Windows Server 2008 Standard Edition • Windows Vista Business • Windows Server 2003 R2 Datacenter Edition • Windows Server 2003 R2 Enterprise Edition • Windows Server 2003 R2 Standard Edition • Windows Server 2003 Standard Edition	32 bit
Windows/x64	• Windows Server 2008 R2 Datacenter Edition • Windows Server 2008 R2 Enterprise Edition • Windows Server 2008 R2 Standard Edition • Windows Server 2008 Datacenter Edition • Windows Server 2008 Enterprise Edition • Windows Server 2008 Standard Edition • Windows Server 2003 R2 Datacenter Edition • Windows Server 2003 R2 Enterprise Edition • Windows Server 2003 R2 Standard Edition • Windows Server 2003 Standard Edition	64 bit

Table 16. Supported OCI library for each platform (continued)

Platform	Operating system	OCI library version
Windows/Itanium	• Windows Server 2008 Datacenter Edition • Windows Server 2008 Enterprise Edition • Windows Server 2008 Standard Edition • Windows Vista Business • Windows Server 2003 Datacenter Edition R2 • Windows Server 2003 Standard Edition	32 bit
Solaris/SPARC	• Solaris 10 • Solaris 9 • Solaris 8	32/64 bit
Solaris/Opteron(x86_64)	Solaris 10	64 bit

Remember: Use the latest version of the Oracle client or Oracle instance client to avoid OCI library loading problems.

Appendix C. ICU regular expressions

ICU regular expressions information is essential if you are using the regular expression feature of Oracle Database Extended agent because different programming languages implement regular expressions in slightly different ways.

The information in Table 17 and Table 18 on page 1000 is extracted from the *ICU User Guide*. The tables describe the specifics of the ICU regular expression implementation.

Table 17. Regular expression metacharacters

Character	Description
\a	Match a BELL, \u0007
\A	Match at the beginning of the input. Differs from ^ in that \A does not match after a new line within the input.
\b, outside of a [Set]	Match if the current position is a word boundary. Boundaries occur at the transitions between word (\w) and non-word (\W) characters, with combining marks ignored. For more information about word boundaries, see ICU Boundary Analysis.
\b, within a [Set]	Match a BACKSPACE, \u0008.
\B	Match if the current position is not a word boundary.
\cX	Match a control-X character.
\d	Match any character with the Unicode General Category of Nd (Number, Decimal Digit.)
\D	Match any character that is not a decimal digit.
\e	Match an ESCAPE, \u001B.
\E	Terminates a \Q ... \E quoted sequence.
\f	Match a FORM FEED, \u000C.
\G	Match if the current position is at the end of the previous match.
\n	Match a LINE FEED, \u000A.
\N{UNICODE CHARACTER NAME}	Match the named character.
\p{UNICODE PROPERTY NAME}	Match any character with the specified Unicode Property.
\P{UNICODE PROPERTY NAME}	Match any character not having the specified Unicode Property.
\Q	Place quotation marks around all following characters until \E.
\r	Match a CARRIAGE RETURN, \u000D.
\s	Match a white space character. White space is defined as [\t\n\f\r\p{Z}].
\S	Match a non-white space character.
\t	Match a HORIZONTAL TABULATION, \u0009.
\uhhhh	Match the character with the hex value hhhh.
\Uhhhhhhhh	Match the character with the hex value hhhhhhhh. Exactly eight hex digits must be provided, even though the largest Unicode code point is \U0010ffff.

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Table 17. Regular expression metacharacters (continued)

Character	Description
\w	Match a word character. Word characters are [\p{Ll}\p{Lu}\p{Lt}\p{Lo}\p{Nd}].
\W	Match a non-word character.
\x{hhhh}	Match the character with hex value hhhh. From 1 to 6 hex digits can be supplied.
\xhh	Match the character with 2 digit hex value hh.
\X	Match a Grapheme Cluster.
\Z \	Match if the current position is at the end of input, but before the final line terminator, if one exists.
\z	Match if the current position is at the end of input.
\n	Back Reference. Match whatever the nth capturing group matched. n must be a number > 1 and < total number of capture groups in the pattern. **Important:** Octal escapes, such as \012, are not supported in ICU regular expressions.
[pattern]	Match any 1 character from the set. See UnicodeSet for a full description of what can appear in the pattern
.	Match any character.
^	Match at the beginning of a line.
$	Match at the end of a line.
\	Place quotation marks around the following character. Characters that must have surrounding quotation marks to be treated as literals are * ? + [( ) { } ^ $ | \ . /

Table 18. Regular expression operators

Operator	Description
|	Alternation. A|B matches either A or B.
*	Match 0 or more times. Match as many times as possible.
+	Match 1 or more times. Match as many times as possible.
?	Match zero or one time. Prefer one.
{n}	Match exactly n times.
{n,}	Match at least n times. Match as many times as possible.
{n,m}	Match between n and m times. Match as many times as possible, but not more than m.
*?	Match 0 or more times. Match as few times as possible.
+?	Match 1 or more times. Match as few times as possible.
??	Match zero or one time. Zero is preferred.
{n}?	Match exactly n times
{n,}?	Match at least n times, but no more than required for an overall pattern match.
{n,m}?	Match between n and m times. Match as few times as possible, but not less than n.
*+	Match 0 or more times. Match as many times as possible when first encountered, do not retry with fewer even if overall match fails (Possessive Match)

Table 18. Regular expression operators (continued)

Operator	Description
++	Match 1 or more times. Possessive match.
?+	Match zero or one time. Possessive match.
{n}+	Match exactly n times. Possessive match.
{n,}+	Match at least n times. Possessive Match.
{n,m}+	Match between n and m times. Possessive Match.
(...)	Capturing parentheses. Range of input that matched the parenthesized subexpression is available after the match.
(?: ...)	Non-capturing parentheses. Groups the included pattern, but does not provide capturing of matching text. More efficient than capturing parentheses.
(?> ...)	Atomic-match parentheses. First match of the parenthesized subexpression is the only one tried; if it does not lead to an overall pattern match, back up the search for a match to a position before the "(?>".
(?# ...)	Free-format comment (?# comment).
(?= ...)	Look-ahead assertion. True if the parenthesized pattern matches at the current input position, but does not advance the input position.
(?! ...)	Negative look-ahead assertion. True if the parenthesized pattern does not match at the current input position. Does not advance the input position.
(?<= ...)	Look-behind assertion. True if the parenthesized pattern matches text preceding the current input position, with the last character of the match being the input character just before the current position. Does not alter the input position. The length of possible strings matched by the look-behind pattern must not be unbounded (no * or + operators.)
(?<!...)	Negative Look-behind assertion. True if the parenthesized pattern does not match text preceding the current input position, with the last character of the match being the input character just before the current position. Does not alter the input position. The length of possible strings matched by the look-behind pattern must not be unbounded (no * or + operators.)
(?ismx-ismx: ...)	Flag settings. Evaluate the parenthesized expression with the specified flags enabled or -disabled.
(?ismx-ismx)	Flag settings. Change the flag settings. Changes apply to the portion of the pattern following the setting. For example, (?i) changes to a not case-insensitive match.

Appendix D. ICU supported code pages

Code page information is used for the Oracle Alert Log File Charset attribute when configuring Oracle Database Extended agent instances.

Table 19 contains a complete list of the code pages that are supported by the ICU.

Table 19. Code page descriptions

Code page	Description
ASCII	7-bit ASCII
LATIN1	ISO 8859-1 Western European
ISO8859_2	ISO 8859-2 Eastern European
ISO8859_3	ISO 8859-3 Southeast European
ISO8859_4	ISO 8859-4 Baltic
ISO8859_5	ISO 8859-5 Cyrillic
ISO8859_6	ISO 8859-6 Arabic
ISO8859_7	ISO 8859-7 Greek
ISO8859_8	ISO 8859-8 Hebrew
ISO8859_9	ISO 8859-9 Latin 5 (Turkish)
ISO8859_10	ISO 8859-10 Latin 6 (Nordic)
ISO8859_11	ISO 8859-11 Thai
ISO8859_13	ISO 8859-13 Latin 7 (Baltic Rim)
ISO8859_14	ISO 8859-14 Latin 8 (Celtic)
ISO8859_15	ISO 8859-15 Latin 9 (Western Europe)
UTF_8	UTF-8 encoding of Unicode
EUC_CN	Simplified Chinese Combined (367 + 1382)
EUC_KR	Korean EUC Combined (367 + 971)
EUC_JP	Japanese Combined (895 + 952 + 896 + 953)
EUC_TW	Taiwan Extended UNIX Code (CNS 11643-1986), Combined (367 + 960 + 961)
UCS2	UCS-2 (Really UTF-16 BE)
CP037	IBM EBCDIC US English
CP037_S390	IBM EBCDIC US English LF & NL reversed
CP256	IBM EBCDIC Netherlands
CP259	IBM EBCDIC Symbols Set 7
CP273	IBM EBCDIC German
CP274	IBM EBCDIC Belgium
CP275	IBM EBCDIC Brazil
CP276	IBM EBCDIC French-Canada
CP277	IBM EBCDIC Danish
CP278	IBM EBCDIC Swedish
CP280	IBM EBCDIC Italian

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Table 19. Code page descriptions (continued)

Code page	Description
CP282	IBM EBCDIC Portugal
CP284	IBM EBCDIC Latin American Spanish
CP285	IBM EBCDIC UK English
CP290	IBM EBCDIC Japanese Katakana
CP297	IBM EBCDIC French
CP420	IBM EBCDIC Arabic
CP421	IBM EBCDIC Maghreb/French
CP423	IBM EBCDIC Greek
CP424	IBM EBCDIC Latin/Hebrew
CP437	MS-DOS US English
CP500	IBM EBCDIC 500V1
CP708	Arabic (ASMO 708)
CP709	Arabic (ASMO 449+, BCON V4)
CP710	Arabic (Transparent Arabic)
CP720	Arabic (Transparent ASMO)
CP737	reek (formerly 437G)
CP770	Lithuanian Standard RST 1095-89
CP771	KBL (Lithuanian and Russian characters)
CP772	Lithuanian Standard LST 1284:1993
CP773	Lithuanian (Mix of 771 and 775)
CP774	Lithuanian Standard 1283:1993
CP775	Baltic
CP776	Lithuanian 770 extended
CP777	Lithuanian 771 extended
CP778	Lithuanian 775 extended
CP790	Mazovia (Polish + codepage 437 extended characters
CP803	IBM EBCDIC Hebrew (old)
CP813	ISO 8859-7 Greek/Latin
CP819	ISO 8859-1 Latin Alphabet No. 1
CP833	IBM EBCDIC Korean SBCS
CP834	IBM EBCDIC Korean DBCS
CP835	IBM EBCDIC Traditional Chinese DBCS
CP837	IBM EBCDIC Simplified Chinese DBCS
CP838	IBM EBCDIC Thai
CP850	MS-DOS Latin 1
CP851	MS-DOS Greek
CP852	MS-DOS Slavic (Latin 1)
CP853	MS-DOS Turkey Latin 3 (replaced by Latin 5)
CP855	IBM Cyrillic (primarily Russian)
CP856	PC Hebrew

Table 19. Code page descriptions (continued)

Code page	Description
CP857	IBM Turkish (Latin 5)
CP860	MS-DOS Portuguese
CP861	MS-DOS Icelandic
CP862	Hebrew (Migration)
CP863	MS-DOS Canadian-French
CP864	PC Arabic
CP865	MS-DOS Nordic
CP866	MS-DOS Russian
CP868	MS-DOS Urdu
CP869	IBM Modern Greek
CP870	IBM EBCDIC Multilingual Latin 2
CP871	IBM EBCDIC Icelandic
CP872	PC Cyrillic with Euro update
CP874	MS-DOS Thai, superset of TIS 620
CP875	IBM EBCDIC Greek
CP878	KOI-R (Cyrillic)
CP880	Cyrillic Multilingual
CP899	PC Symbols
CP905	IBM EBCDIC Turkey Latin 3 (replaced by Latin 5)
CP912	ISO 8859-2; ROECE Latin-2 Mulitlingual
CP913	ISO 8859-3 Southeast European
CP914	ISO 8859-4 Baltic
CP915	ISO 8859-5; Cyrillic; 8-bit ISO
CP916	ISO 8859-8; Hebrew
CP918	IBM EBCDIC Urdu
CP920	ISO 8859-9; Latin 5
CP921	ISO Baltic (8-bit)
CP922	ISO Estonia (8-bit)
CP929	Thai PC double byte
CP930	IBM EBCDIC Japanese Katakana Extended, Combined (290 + 300)
CP931	IBM EBCDIC Japanese Latin-Kanji, Combined (037 + 300)
CP932	MS Windows Japanese, superset of Shift-JIS, Combined (897 + 301)
CP933	IBM EBCDIC Korean Combined (833 + 834)
CP934	Korean PC Combined (891 + 926)
CP935	IBM EBCDIC Simplified Chinese, Combined (836 + 837)
CP936	MS Windows Simplified Chinese, Combined (903 + 928)
CP937	IBM EBCDIC Traditional Chinese, Combined (037 + 835)
CP938	Traditional Chinese Combined (904 + 927)

Table 19. Code page descriptions (continued)

Code page	Description
CP939	IBM EBCDIC Japanese Latin Extended, Combined (1027 + 300)
CP942	MS-DOS Japanese Kana Combined (1041 + 301)
CP943	MS-DOS Japanese Combined (1041 + 941)
CP944	Korean PC Combined (1040 + 926)
CP946	Simplified Chinese PC Combined (1042 + 928)
CP948	MS-DOS Traditional Chinese, Combined (1043 + 927)
CP949	MS Windows Korean, superset of KS C 5601-1992, Combined (1088 + 951)
CP950	MS Windows Traditional Chinese, superset of Big 5, Combined (1114 + 947)
CP1004	PC-data Latin-1 extended desktop publishing
CP1006	Urdu, 8-bit
CP1008	Arabic, 8-bit ISO/ASCII
CP1025	IBM EBCDIC Cyrillic
CP1026	IBM EBCDIC Turkish
CP1027	IBM EBCDIC Japanese Extended Single Byte
CP1040	Korean PC extended Single Byte
CP1041	Japanese PC extended Single Byte
CP1043	Traditional Chinese extended Single Byte
CP1046	Arabic
CP1047	Latin 1 / Open Systems (US 3270)
CP1047_S390	Latin 1 / Open Systems (US 3270) LF & NL reversed
CP1051	HP-UX Latin1
CP1097	IBM EBCDIC Farsi
CP1098	MS-DOS Farsi
CP1112	IBM EBCDIC Baltic Multilingual
CP1114	Traditional Chinese Single Byte (IBM Big 5)
CP1115	Simplified Chinese Single Byte (IBM GB)
CP1122	IBM EBCDIC Estonia
CP1123	IBM EBCDIC Cyrillic Ukraine
CP1124	Cyrillic Ukraine 8-bit
CP1130	IBM EBCDIC Vietnamese
CP1137	IBM EBCDIC India
CP1140	IBM EBCDIC US (with Euro)
CP1141	IBM EBCDIC Germany, Austria (with Euro)
CP1142	IBM EBCDIC Denmark (with Euro)
CP1143	IBM EBCDIC Sweden (with Euro)
CP1144	IBM EBCDIC Italy (with Euro)
CP1145	IBM EBCDIC Spain (with Euro)
CP1146	IBM EBCDIC UK Ireland (with Euro)

Table 19. Code page descriptions (continued)

Code page	Description
CP1147	IBM EBCDIC France (with Euro)
CP1148	IBM EBCDIC International Latin1 (with Euro)
CP1149	IBM EBCDIC Iceland (with Euro)
CP1153	IBM EBCDIC Latin2 (with Euro)
CP1154	IBM EBCDIC Cyrillic (with Euro)
CP1155	IBM EBCDIC Turkish (with Euro)
CP1156	IBM EBCDIC Baltic Multilingual (with Euro)
CP1157	IBM EBCDIC Estonia (with Euro)
CP1158	IBM EBCDIC Cyrillic Ukraine (with Euro)
CP1159	SBCS Traditional Chinese Host (with Euro)
CP1160	IBM EBCDIC Thailand (with Euro)
CP1164	IBM EBCDIC Vietnamese (with Euro)
CP1250	MS Windows Latin 2 (Central Europe)
CP1251	MS Windows Cyrillic (Slavic)
CP1252	MS Windows Latin 1 (ANSI), superset of Latin1
CP1253	MS Windows Greek
CP1254	MS Windows Latin 5 (Turkish), superset of ISO 8859-9
CP1255	MS Windows Hebrew
CP1256	MS Windows Arabic
CP1257	MS Windows Baltic Rim
CP1258	MS Windows Vietnamese
CP1279	Hitachi Japanese Katakana Host
CP1361	MS Windows Korean (Johab)
CP1381	MS-DOS Simplified Chinese Combined (1115 + 1380)
CP1383	China EUC
CP1386	GBK Chinese
CP1392	Simplified Chinese GB18030
CP5026	IBM EBCDIC Japan Katakana-Kanji Combined (290 + 300)
CP5028	Japan Mixed Combined (897 + 301)
CP5031	IBM EBCDIC Simplified Chinese Combined (836 + 837)
CP5033	IBM EBCDIC Traditional Chinese Combined (037 + 835)
CP5035	IBM EBCDIC Japan Latin Combined (1027 + 300)
CP5038	Japan Mixed Combined (1041 + 301)
CP5045	Korean PC Combined (1088 + 951)
CP5050	Japanese EUC Combined (895 + 952 + 896 + 953)
CP5488	Simplified Chinese GB18030
CP9125	IBM EBCDIC Korean Combined (833 + 834)
EuroShift_JIS	Test code page, Shift-JIS with European characters
SBCS	Single Byte Code Set

Table 19. Code page descriptions (continued)

Code page	Description
DBCS	Double Byte Code Set
MBCS	MultiByte Code Set
UTF16BE	utf-16 big endian
UTF16LE	utf-16 little endian
UTF32BE	utf-32 big endian
UTF32LE	utf-32 little endian
HZ	HZ code set
SCSU	SCSU code set
ISCII	iscii code set
UTF7	utf-7
BOCU1	bocu1
UTF16	utf16 code set
UTF32	utf32 code set
CESU8	cesu8 code set
GB18030	gb18030 code set

Appendix E. Documentation library

A variety of publications are relevant to the use of the IBM Tivoli Composite Application Manager Extended Agent for Oracle Database.

The *IBM Tivoli Monitoring, OMEGAMON XE, and Composite Application Manager products: Documentation Guide* contains information about accessing and using publications. You can find the Documentation Guide in the following information centers:

- IBM Tivoli Monitoring and OMEGAMON® XE (http://publib.boulder.ibm.com/infocenter/tivihelp/v15r1/index.jsp)
- IBM Tivoli Composite Application Manager (http://publib.boulder.ibm.com/infocenter/tivihelp/v24r1/index.jsp)

To open the Documentation Guide in the information center, select **Using the publications** in the **Contents** pane.

To find a list of new and changed publications, click **What's new in the information center** on the Welcome page of the IBM Tivoli Monitoring and OMEGAMON XE Information Center.

To find publications from the previous version of a product, click **Previous versions** under the name of the product in the **Contents** pane.

IBM Tivoli Composite Application Manager Extended Agent for Oracle Database library

The documentation for this agent and other product components is located in the IBM Tivoli Composite Application Manager for Applications Information Center (http://publib.boulder.ibm.com/infocenter/tivihelp/v24r1/topic/com.ibm.itcama.doc_7.1/welcome_itcamfapps71.html).

One document is specific to the IBM Tivoli Composite Application Manager Extended Agent for Oracle Database: IBM Tivoli Composite Application Manager Extended Agent for Oracle Database User's Guide. This publication provides agent-specific information for configuring, using, and troubleshooting the Oracle Database Extended agent.

The *Offering Guide* also provides information about installing and configuring the component products in the offering.

The **Prerequisites** topic in the information center contains information about the prerequisites for each component.

Use the information in the user's guide for the agent with the *Tivoli Enterprise Portal User's Guide* to monitor Oracle Database resources.

Prerequisite publications

To use the information in this publication effectively, you must have some prerequisite knowledge.

See the following publications to gain the required prerequisite knowledge:

- *IBM Tivoli Monitoring Readme First*
- *Exploring IBM Tivoli Monitoring*
- *IBM Tivoli Monitoring Administrator's Guide*
- *IBM Tivoli Monitoring Agent Builder User's Guide*

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- *IBM Tivoli Monitoring Command Reference*
- *Configuring IBM Tivoli Enterprise Monitoring Server on z/OS*
- *IBM Tivoli Monitoring Installation and Setup Guide*
- *IBM Tivoli Monitoring High Availability Guide for Distributed Systems*
- *IBM Tivoli Monitoring: Messages*
- *IBM Tivoli Monitoring, OMEGAMON XE, and Composite Application Manager products: Documentation Guide*
- *IBM Tivoli Monitoring Troubleshooting Guide*
- *IBM Tivoli Monitoring Universal Agent User's Guide*
- *IBM Tivoli Universal Agent API and Command Programming Reference Guide*
- *IBM Tivoli Monitoring: Upgrading from Tivoli Distributed Monitoring*
- *IBM Tivoli Monitoring: Upgrading from V5.1.2*
- *IBM Tivoli Monitoring: i5/OS® Agent User's Guide*
- *IBM Tivoli Monitoring: Linux OS Agent User's Guide*
- *IBM Tivoli Monitoring: UNIX OS Agent User's Guide*
- *IBM Tivoli Monitoring: UNIX Logs OS Agent User's*
- *IBM Tivoli Monitoring: Windows OS Agent User's Guide*
- *Tivoli Enterprise Portal User's Guide*
- *Tivoli Performance Analyzer User's Guide*

Related publications

The publications in related information centers provide useful information.

See the following information centers, which you can find by accessing Tivoli Documentation Central (http://www.ibm.com/developerworks/wikis/display/tivolidoccentral/Home):

- IBM Tivoli Monitoring
- IBM Tivoli Netcool/OMNIbus
- IBM Tivoli Application Dependency Discovery Manager
- IBM Tivoli Enterprise Console

Other sources of documentation

You can obtain additional technical documentation about monitoring products from other sources.

See the following sources of technical documentation about monitoring products:

- IBM Integrated Service Management Library (http://www.ibm.com/software/brandcatalog/ismlibrary/) is an online catalog that contains integration documentation as well as other downloadable product extensions.
- IBM Redbook publications (http://www.redbooks.ibm.com/) include Redbooks® publications, Redpapers, and Redbooks technotes that provide information about products from platform and solution perspectives.
- Technotes (http://www.ibm.com/support/entry/portal/software), which are found through the IBM Software Support website, provide the latest information about known product limitations and workarounds.
- Tivoli wikis

  Tivoli Wiki Central (http://www.ibm.com/developerworks/wikis/display/tivoli/Home) is the home for interactive wikis that offer best practices and scenarios for using Tivoli products. The wikis contain white papers contributed by IBM employees, and content created by customers and business partners.

Two of these wikis are of particular relevance to IBM Tivoli Monitoring:

- Tivoli Distributed Monitoring and Application Management Wiki (http://www-10.lotus.com/ldd/tivmonitorwiki.nsf) provides information about IBM Tivoli Monitoring and related distributed products, including IBM Tivoli Composite Application Manager products.
- Tivoli System z® Monitoring and Application Management Wiki (http://www.ibm.com/developerworks/wikis/display/tivoliomegamon/Home) provides information about the OMEGAMON XE products, Tivoli NetView® for z/OS®, Tivoli Monitoring Agent for z/TPF, and other System z monitoring and application management products.

Accessibility

Accessibility features help users with physical disabilities, such as restricted mobility or limited vision, to use software products successfully.

The major accessibility features in this product enable users in the following ways:

- Use assistive technologies, such as screen-reader software and digital speech synthesizer, to hear what is displayed on the screen. Consult the product documentation of the assistive technology for details on using those technologies with this product.
- Operate specific or equivalent features using only the keyboard.
- Magnify what is displayed on the screen.

In addition, the product documentation was modified to include the following features to aid accessibility:

- All documentation is available in both HTML and convertible PDF formats to give the maximum opportunity for users to apply screen-reader software.
- All images in the documentation are provided with alternative text so that users with vision impairments can understand the contents of the images.

Navigating the interface using the keyboard

Standard shortcut and accelerator keys are used by the product and are documented by the operating system. See the documentation provided by your operating system for more information.

Magnifying what is displayed on the screen

You can enlarge information in the product windows using facilities provided by the operating systems on which the product is run. For example, in a Microsoft Windows environment, you can lower the resolution of the screen to enlarge the font sizes of the text on the screen. See the documentation provided by your operating system for more information.

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