

TeamQuest® Performance Software for Oracle Databases



Powerful enterprise performance management for Oracle database applications

Our Oracle agent collects a wide variety of summary and detailed data needed to manage the performance of an Oracle database instance. You can view Oracle data through TeamQuest Alert, TeamQuest On the Web, and TeamQuest View. Each of these products allows you to analyze Oracle performance along with the performance of server hardware, databases, and applications.

Analyze performance across applications

Drill down from server anomalies into Oracle database details to find the root cause. If another application is causing the problem, drill across into application-specific data for further investigation.

Identify problems before users are affected

Set compound thresholds on Oracle and server metrics for early detection of problems. Receive alarms, drill down to users and processes active at the time, and explore cause-effect relationships to pinpoint the sources of bottlenecks before they affect application users.

View your entire enterprise with a single tool

Analyze Oracle data along with performance data from heterogeneous server hardware, databases and applications in a single tool.

Analyze past and present in a single tool

View real-time performance data of an Oracle instance
Diagnose problems and detect trends using an historical database of Oracle and server performance.



TeamQuest®

Optimizing IT Performance



Measure

- Monitor the amount of CPU, I/O, and memory resources used by individual user sessions to assist in determining excessive resource usage
- Collect data on the disk capacity and I/O utilization for individual data files to help ensure space for growth and to pinpoint and eliminate bottlenecks
- Collect usage data about the individual rollback segments to assist with capacity planning and to reduce contention
- Monitor the redo log buffer to assist in detection of bottlenecks
- Monitor the user locks held and generate alarms when they exceed a specified amount of time
- Track changes to Oracle configuration parameters that may affect performance
- View performance data from Oracle, Sybase, DB2 UDB, SAP R/3, WebSphere, Web servers and other site-specific applications
- Set thresholds on critical Oracle parameters for use with our performance console or for integration with any SNMP-enabled management console

Analyze

- Examine your top SQL statements (cursors) to detect excessive resource consumption and tune accordingly
- Analyze wait events at an instance and session level to find bottlenecks
- Examine the buffer cache, row cache, and dictionary cache to minimize physical I/O
- Examine statistics on internal latches to help identify contention
- Check for the database objects that are nearing capacity within their tablespace
- Scan the alert.log file for user-specified error codes and generate alarms when they are detected
- Study disk I/O measurements to help balance load
- Examine memory measurements outside of Oracle to determine pressures on the SGA
- Scrutinize details of all processes running on the server, including Oracle background and server processes

Drill Down, Correlate & Predict

- Drill down to investigate anomalies (for example, you can drill down from system CPU time into Oracle session resource utilization)
- Drill across applications to investigate causes (for example, from SAP R/3 response time, you can drill across to Oracle file I/O data)
- Run a correlation analysis to pinpoint the root cause of problems—even across applications on different servers
- Predict hardware requirements using what-if analysis based on Oracle performance

Platforms Supported

- Hewlett-Packard HP-UX on PA-RISC systems
- Hewlett-Packard Tru64 UNIX on Alpha systems
- IBM AIX on POWER systems
- Microsoft Windows on Intel systems
- Red Hat Enterprise Linux Server on Intel systems
- Red Hat Linux on Intel systems
- Sun Solaris on SPARC
- SuSE Linux on Intel systems

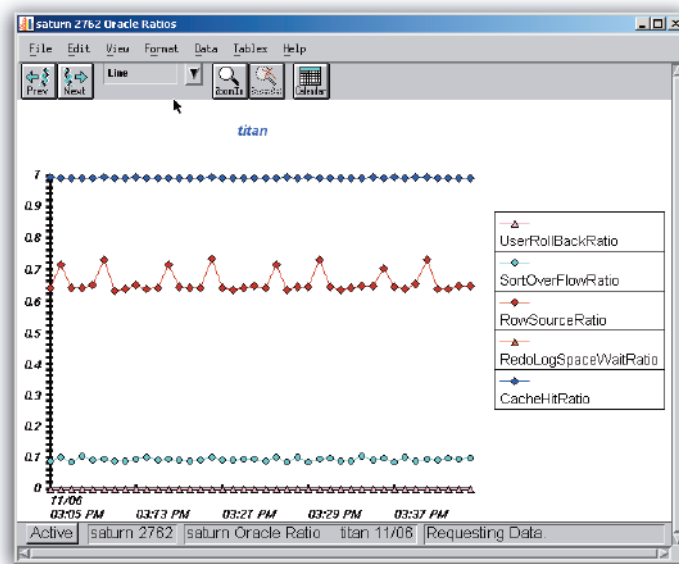
Data Analyzed

Instance summary data on:

- memory
- disk I/O
- system global area (SGA)
- network
- rollback segments
- block contention
- latches

Detailed metrics on:

- sessions
- datafiles
- rollback segments
- library cache
- row cache
- block contention
- latches
- system wait events
- session wait events
- top SQL cursors
- instance configuration



Oracle Instance Performance Ratios for a Solaris system