



Spotlight® on RAC

Diagnose RAC Performance Issues

To ensure the reliability of the RAC system, you must be aware of the status of three fundamental components of your environment: the physical database, multiple Oracle instances (or nodes) and a cluster interconnect. When performance problems arise, traditional tools and methods are unable to identify the exact origin of the bottleneck. It could be within the physical database, one or several of the Oracle nodes, the interconnect operation or an overall Oracle performance issue unrelated to any of the main components. Unfortunately, there is no easy way to work through all possibilities. You have to pick a node at random, and then work iteratively through a set of manual checks on each node until you can determine where the problem originates. This can be an extremely time-consuming and imprecise process that can result in undetected problems and an overall reduction in cluster efficiency.

Spotlight® on RAC is a client-based, diagnostics solution that provides a graphical representation of all critical performance metrics. The homepage view provides an overview of the entire system, simplifying the identification of bottlenecks. Drilldowns for each issue give you highly detailed performance metrics, showing the cluster architecture, cluster activities and cluster-wide performance for fast problem detection and diagnosis of your RAC database. Spotlight on RAC:

- Diagnoses the health of your RAC environment at the individual node level
- Diagnoses the cluster as a single database
- Shows all critical RAC specific issues at a glance
- Provides customizable alerts to performance issues within your Real Application Cluster
- Provides expert knowledge and advice for RAC performance issues



Spotlight on RAC provides a graphical interface for diagnosing performance issues in a RAC environment

- Provides a visual representation of process flows within Real Application Clusters, allowing observation of activity in real time
- Diagnoses RAC from three key perspectives:
 - At the individual node level
 - At the cluster as a single database
 - From interconnect load, latency and overhead
- Identifies bottlenecks and provides extensive drill-down capabilities to understand the root of a performance issue
- Enables you to see all critical RAC components on one screen
- Provides detailed performance metrics and customized alarming for RAC environments

System Requirements

Windows Client:

- Windows 2000, Windows 2003 Server, or Windows XP Professional
- Windows 2000 – Service Pack 4 (or later) must be installed
- Windows XP – Service Pack 1 (or later) must be installed
- SQL*Net 2.3.4 or later
- Oracle Oracle 9.x.x or Oracle 10g (full client or Instant Client using a TNSNAMES.ORA file)

Database Server

- OS Server

The following server operating systems are supported for OS Server queries:

- Sun Solaris 8, 9, 10
- HP-UX 11, 11i, 11i v2
- IBM AIX 5.1, 5.2, 5.3
- Red Hat and SUSE operating systems running Linux 2.4 and 2.6 kernels
- Windows 2000 SP4, Windows XP SP1 or later, or Windows 2003 Server
- Oracle 9i, 10g (Release 1), or 10g (Release 2)



www.quest.com
e-mail: info@quest.com
Please refer to our Web site for international office information.

Real-Time Diagnostics

Spotlight on RAC makes real-time diagnosis simple and intuitive. Spotlight's patent-pending technology displays the actual processing architecture of your Real Application Cluster and operating system throughout the environment. Spotlight on RAC helps you proactively pinpoint and resolve the source of Oracle performance issues using graphical flows that illustrate the rate data moves between components.

Automatic Problem Detection for Instant Resolution

With Spotlight on RAC, you can drill down to the details, locating in-depth information about the source of a performance problem. This allows Spotlight on RAC to automatically set thresholds and send a warning of impending problems with a visual or audible alert.

Built-in Expert Advice

The expert advice capability greatly reduces the time required to resolve issues and hunt through tuning guides or references by providing a visual tool that identifies issues, as well as a tuning guide that increases efficiency.

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