

Sun Systems for Scaling Oracle Real Application Cluster Technology

Taking IT to a higher level.

There's no question that grid computing can deliver significant cost savings and boost the quality and flexibility of your IT services. The question is: do you have the right infrastructure in place to take full advantage of grid computing? Together, Sun and Oracle—driving forces behind the growth of grid computing—offer enterprise-class hardware and software that help you maximize the benefits of grid computing with minimal cost and complexity.

Fast, Scalable Foundation

The beauty of grid computing is scalability, on demand. You can scale out your enterprise grid using small increments of cost-effective compute power and add resources on the fly to accommodate spikes in demand for application services. Oracle Database 11g Enterprise Edition scales on all Sun hardware configurations. It supports a wide range of enterprise applications, including high-volume OLTP and query-

Highlights

Plug in to Cost Savings

- Offer your users a high quality of service at a low cost
- Scale out on demand
- Reduce cost of downtime
- Use energy-efficient servers
- Secure data and applications
- Automate and self-manage

Sun Systems for Scaling Oracle Real Application Cluster Technology

Flexible choice of hardware and software, including:

- Oracle Database 11g Enterprise Edition and Real Application Clusters (RAC)
- Sun SPARC® Enterprise servers with CoolThreads™ technology
- Sun™ Fire x64 servers* with AMD Op-teron or Intel Xeon 64-bit processors
- Solaris™ 10 Operating System
- Solaris Cluster Advanced Edition for Oracle RAC
- Sun StorageTek™ QFS software
- Oracle 10g Grid Control
- Sun xVM™ Ops Center

Power up your grid for maximum business advantage

Power Up Your Grid

If you're already running your business on an enterprise grid—good. And if you're running on Sun and Oracle—even better. But if you want to maximize the advantages of your grid, it's time to upgrade to the latest generation of enterprise grid computing products from Sun and Oracle.

Together, Sun and Oracle can dramatically increase the performance, scalability, security, and availability of applications and make it easier for you to meet your service-level objectives. Whether you're running mission-critical online transaction processing (OLTP) applications or business intelligence data warehousing (BI) and other applications, Sun Systems for Scaling Oracle Real Application Cluster Technology can help maximize your quality of service and cut your total cost of computing.

intensive BI applications. It can easily manage very large volumes of data with the highest level of security in the industry. And it supports all standard relational data types, as well as native storage of XML, Text, Documents, Images, Audio, Video, and Location data.

Equally important, Oracle Database 11g Enterprise Edition supports deployments of large numbers of concurrent users, enabling applications to quickly and easily scale from tens to tens of thousands of online users.

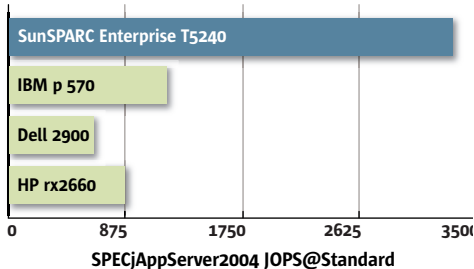
24 x 7 Availability

Oracle Real Application Clusters (RAC) enables you to deploy a single database across a cluster of servers, providing fault tolerance from hardware failures and planned outages. No application changes are necessary. It includes unique technology to protect your data center from complete failure and make recovery time fast and predictable.



World Record Performance

SPECjAppServer2004¹
Single Application Server Performance



¹ SPEC, SPECjAppServer are registered trademarks of Standard Performance Evaluation Corporation. All results from www.spec.org as of 4/8/08. SPECjAppServer2004: Sun SPARC Enterprise T5240 (16 cores, 2 chip) 3,331 JOPS@Standard. IBM p 570 (4 cores, 2 chips) 1,197.51 JOPS@Standard. Dell 2900 (4 cores, 2 chips) 652.93 JOPS@Standard. HP rx2660 (4 cores, 2 chips) 874.17 JOPS@Standard.

In addition, Solaris Cluster Advanced Edition for Oracle RAC provides a complete solution for running a clustered Oracle database, delivering world-class availability by helping to ensure the least possible downtime in the event of a hardware or software outage. And Sun StorageTek QFS software provides highperformance, heterogeneous shared access to data over a storage area network, delivering high performance and scalability while reducing database administration in Oracle-based clustered environments.

Platform of Choice for Secure, Scalable Grid Computing

The Solaris™ 10 Operating System is the most advanced operating system ever built. The innovations introduced in Solaris 10 make it the ideal platform for hosting Oracle Database 11g Enterprise Edition for grid computing. Among the key features:

- **Predictive Self-Healing:** Solaris 10 can detect failing system components— including CPUs, memory, and I/O—and take them offline without requiring your database to go offline as well.
- **Solaris Containers:** With Solaris 10, you can safely host multiple databases that are completely isolated one from the other on a single system.

- **Solaris Dynamic Tracing (DTrace):** Your entire system—the hardware, OS, database, and application stack— can be safely optimized in real time on production systems to help maximize performance for your database applications.
- **Symmetric Multiprocessing:** Solaris 10 can run your database on systems with from one to 128 CPUs, delivering nearlinear scalability and performance.

World-Record Performance, Huge

Energy Savings with CoolThreads Servers

Sun systems with CoolThreads technology deliver breakthrough performance with dramatic space and power efficiency — five times the performance, using one fifth the power, in one quarter the space. Sun SPARC Enterprise T5140 and T5240 servers are the industry’s first dual-socket Chip Multithreading (CMT) platforms, delivering the highest compute density ever with up to 128 threads in as little as 1 rack unit of physical space while maintaining maximum power efficiency.

Sun Fire x64 Servers

Powered by the AMD Opteron or Intel Xeon processors, these systems provide a low cost of entry with industry-leading energy efficiency, density and scalability and a choice of operating systems – including the Solaris 10 OS, OpenSolaris, Linux, Windows, and VMware.

Enterprise Grid Computing Made Manageable

Oracle Enterprise Manager 10g Grid Control together with the Oracle Management Packs, Plug-ins and Connectors deliver the enterprise-class management software that meets your stringent requirements for managing enterprise grids. With this latest generation of management software, you can manage business applications, end-user

services, and the entire grid infrastructure as easily as managing one application running on one computer.

Sun Services

Ensure that your systems are running at an optimal level right from the start. Build, support, and transform your IT infrastructure and optimize business performance with the experts from Sun Services. Leverage Sun best practices during the initial setup of your environment with Sun Prescribed Services, including Enterprise Installation Services, Application Readiness Service, Data Readiness Service, and Cluster Implementation Service. Tailor your solution to meet your unique business requirements with Sun Recommended Services, including Custom Professional Services System Implementation Service, Custom Oracle Configuration Services, Single Point of Contact, Sun Remote Operations Management, and Sun i-Runbook Services.

Why Sun and Oracle?

Oracle is the world leader in database solutions. Sun is the thought leader and the platform of choice for mission-critical computing. Together, Oracle and Sun provide a comprehensive and collaborative alliance, each running a substantial portion of their business operations on each other’s products.

Learn More

Get complete details about the new generation of software, hardware and services for grid computing from Sun and Oracle. Visit sun.com/oracle/grid for additional information and special offers.

