Cisco Unified Computing System Delivers World-Record Application Server Performance

Cisco Unified Computing System and Oracle Applications

World-Record-Setting Oracle Fusion Middleware 11g Benchmark Performance

Enterprise applications depend on application server performance, and world-record results on the SPEC® Java Application Server (SPECjAppServer®2004) benchmark demonstrate the degree to which organizations can depend on Cisco Unified Computing System™ to power even the most challenging workloads. The Cisco® UCS B230 M1 Blade Server now leads the industry with the top dual-node SPECjAppServer2004 benchmark result of 11,283.80 JOPS@ Standard (jAppServer operations per second). This result surpasses the prior dual-node world record by 54 percent and was obtained running Oracle WebLogic Server 11g, Oracle Database 11g Release 2, and Oracle Enterprise Linux. These results show that Cisco Unified Computing System gives customers the performance they need to support the most mission-critical applications in a standardized, simplified infrastructure.

Industry-Leading Platform

Cisco Unified Computing System, in combination with Oracle applications, is an outstanding solution that delivers best-in-class security and reliability, availability, and serviceability (RAS) with high performance for mission-critical applications. While other servers may also incorporate the latest processors, Cisco combines them into a unified platform built to deliver scalable performance to the enterprise. Unlike other products, the Cisco Unified Computing System is a next-generation data center platform that unites compute, network, storage access, and virtualization resources into a cohesive system designed specifically to reduce total cost of ownership (TCO) and increase business agility.

SPECjAppServer2004

SPECjAppServer2004 is a multi-tier benchmark for measuring the performance of Java 2 Enterprise Edition (J2EE) technology–based application servers. SPECjAppServer2004 is an end-to-end application server benchmark that exercises all major J2EE technologies implemented by compliant application servers. The benchmark heavily exercises all parts of the underlying infrastructure that support an application environment, including computing and networking resources, Java Virtual Machine (JVM) software, database software, and Java Database Connectivity (JDBC) drivers.

Benchmark Environment

Cisco's experience and leadership in implementing Oracle environments combined with the performance enhancement provided by Intel Xeon 7500 series processors led to this record-setting performance. The benchmark setup included Oracle WebLogic Server 11g running on two Cisco UCS B230 M1 Blade Servers (Figure 1), each with two eight-core Intel® Xeon® X7560 2.26-GHz processors. A single Oracle Database 11g Release 2 instance ran on one Cisco UCS B440 M1 High-Performance Blade Server with four eight-core Intel Xeon X7560 2.26-GHz processors. Both the Java application server and the database server ran on Oracle Enterprise Linux.

Figure 1. The Cisco UCS B230 M1 Blade Server

Conclusion

This Java application server benchmark result demonstrates the enterprise computing power of just two Cisco servers. This result, together with Cisco's industry leadership on the Oracle E-Business Suite Standard Benchmark, confirm that the Cisco Unified Computing System is well suited to deliver the performance required for enterprise applications in organizations of all sizes. The solution's integrated performance and superior agility provide even more compelling reasons to transform your data center with the Cisco Unified Computing System.

For More Information

- For more information about the Cisco UCS B230 M1 Blade Server, visit http://www.cisco.com/go/ucs.
- For more information about the Cisco and Oracle combined solutions, visit http://www.cisco.com/go/oracle.

Benchmark Disclosures

The performance results described in this document are derived from detailed benchmark reports from http://www.spec.org as of September 20, 2010. The systems cited in this document were configured as follows:

- **Cisco UCS B230 M1:** Oracle WebLogic Server 11g running on two Cisco B230 M1 Blade Servers, each with two eight-core Intel Xeon X7560 2.26-GHz processors, with 11,283.80 SPECjAppServer2004 JOPS@Standard.
- **Dell PowerEdge R610:** Oracle WebLogic Server Standard Edition Release 10.3 running on two Dell PowerEdge R610 servers, each with two Xeon X5570 quad-core 2.93-GHz processors, with 7311.50 SPECjAppServer2004 JOPS@Standard.

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