HP Integrity BL870c server blade achieves #1 SPECjAppServer2004 world record performance result

HP Leadership

» The HP Integrity BL870c server blade delivers a solid platform to run mission-critical applications in a bladed infrastructure, providing superior virtualization, high availability, scalability, simplified management, and energy efficiency.

Customer Value

What are the customer benefits of using HP Integrity server blades with Oracle and SPECjAppServer2004?

Many businesses aggressively use the Web to permit customers direct specification of product configuration, ordering, and status checking. In addition, businesses strive to fully automate manufacturing, inventory, supply chain management, and customer billing.

For reasons of interest, scope, and familiarity, the SPECjAppServer 2004 benchmark makes use of manufacturing, supply chain management, and order/inventory as the "storyline" of the business problem. It is heavyweight, mission-critical, worldwide, 24x7, and necessitates use of a powerful and scalable infrastructure. It is one that many Fortune 500 companies are interested in.[i] And one that needs the best infrastructure to run it.

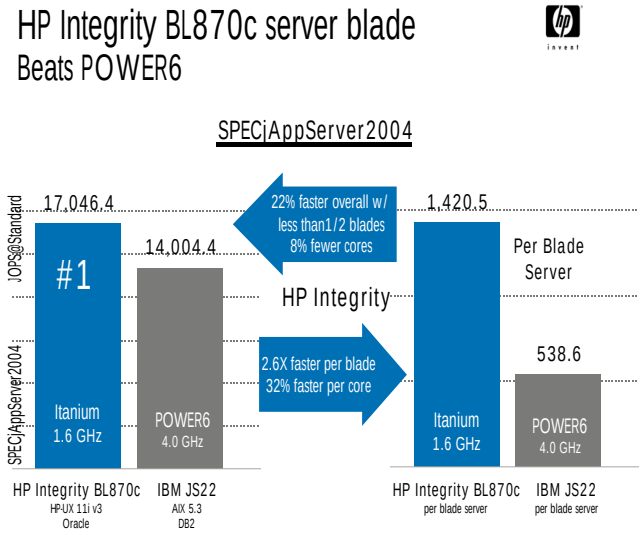
HP Integrity server blades using Oracle provide organizations with a robust and reliable platform for these mission-critical applications.

With its variety of server blades and the leadership results of this Integrity BL870c SPECjAppServer 2004 benchmark, HP offers customers the BEST PLATFORM for their business applications.

Key Points

- HP Integrity BL870c server blade with HP-UX 11i v3 sets #1 world record result on SPECjAppServer2004 benchmark
- Outperforms the IBM JS22 (POWER6) server blade by 22% - with fewer blades, fewer cores
- The HP Integrity BL870c server blade, with industry standard architecture running Oracle, triumphs over IBM running DB2.

Figure 1. SPECjAppServer2004 comparison results: HP Integrity BL870c vs. IBM JS22



- HP Integrity Server Blades
- 22% faster overall with less than ½ the blade servers
- 2.6X faster per blade
- 32% faster per core

Technology for better business outcomes.

Table 1. SPECjAppServer2004 configuration for system results.

System Description	SPECjAppServer2004 JOPS@Standard	App/Database/OS
HP Integrity BL870c server blade Dual-Core Intel Itanium 9100 1.6GHz 12 blades/48 chips/96 cores each blade: 8 cores/4 chips/ 2 cores per chip	17,046.4	Oracle Application Server 10g Release 10.1.3.3.2 – Java Edition/ HP–UX 11iv3 March 2008
IBM BladeCenter JS22 Express Dual-Core POWER 6 4.0GHz 26 blades/52 chips/104 cores each blade: 4 core/2 chips/ 2 cores per chip	14,004.4	WebSphere 6.1 Application Server with EJB3 Feature Pack/DB2

Test results as of 9-17--08. For more details, please visit: http://www.spec.org/jAppServer2004/results/

About the SPECjAppServer2004 Benchmark

SPECjAppServer2004 is a multi-tier benchmark for measuring the performance of a representative J2EE application and each of the components that make up the application environment, including hardware, application server software, JVM software, database software, JDBC drivers, and the system network. For more information, visit http://www.spec.org/jAppServer2004/.

HP Integrity server blade configuration

The HP Integrity BL870c server blade was configured with 12 x 1600MHz Dual-Core Intel Itanium 9100 processors (8 cores/ 4 chips/ 2 cores per chip), with 16KB(I)+16KB(D) L1 cache, 1024KB(I)+256KB(D) L2 cache, 2 x 12MB L3 cache, and 98,272MB main memory. The server was running HP-UX 11i v3 March 2008 release with Oracle Application Server 10g Release 10.1.3.3.2 - Java Edition.

The Integrity Advantage

HP Integrity BL870c server blade

Designed to support mission critical application demands, the HP Integrity BL870c server blade brings the industry leading availability, scalability, and virtualization found in all HP Integrity servers to HP BladeSystem c-Class. The BL870c offers dual-core Intel® Itanium® processing capabilities, impressive memory expansion, and management tools that make it easy to deploy and maintain.

The HP Integrity BL870c server blade is a four-socket, full-height server blade featuring three models of the latest Intel ® Itanium® 9100 series Dual-Core processors supported by up to 192GB memory (24 DIMM slots). The BL870c features four Gigabit Ethernet ports standard, support for three standard c-Class I/O mezzanine cards, and up to four internal SFF SAS hot-plug disk drives.

HP proven performance

Proven performance is part of the reason that HP is #1 in server shipments. HP has posted hundreds of leading results on the most commonly referenced benchmarks on hundreds of HP servers and blades, helping customer to be confident in HP.

For more information

HP Integrity BL870c server blade: www.hp.com/go/bl870c

IBM BladeServer JS22 Express: www.ibm.com/servers/bladeserver/js22

SPECjApp2004 details: http://www.spec.org/jAppServer2004/results/

September 2008

[i] Excerpted from SPECjAppServer 2004 Design Document: http://www.spec.org/jAppServer2004/docs/DesignDocument.html