



HP Integrity Superdome earns #1 overall 16-processor performance result on two-tier SAP® SD Standard Application Benchmark



Built for the future and tested in today's most demanding enterprise environments, HP Integrity Superdome Servers are designed to deliver consistently superior performance, availability, connectivity, and partitioning.

Key results at a glance:

- The HP Integrity Superdome took the #1 position for 16-processor performance on the two-tier SAP® Sales and Distribution (SD) Standard Application Benchmark with 5,600 SAP SD Benchmark users.
- The results prove Integrity leadership over all other 16-processor competitors, including IBM and Unisys by up to 14%.
- The performance results display optimization of the latest HP Integrity 16-processor servers with Dual-Core Intel® Itanium® 2 9050 processors.

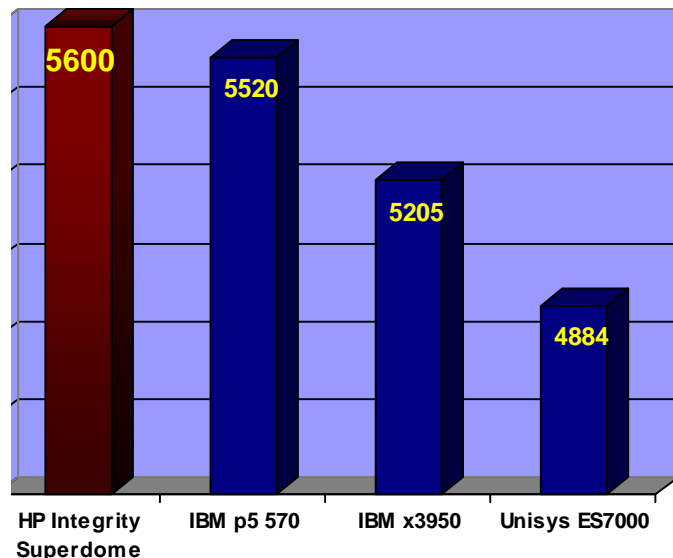
Outstanding results: The HP Integrity Superdome, utilizing Dual-Core Intel Itanium 2 technology, achieved the **number one overall result** for two-tier 16-processor servers with 5,600 SAP SD Benchmark users, equivalent to a throughput of 564,044 fully processed order line items per hour.

Figure 1. Comparison of dual-core competitors on the two-tier SAP SD Standard Application Benchmark (Configurations and results on next page).

Outstanding performance and scalability in a flexible, highly reliable, standards-based solution!

- **5,600 SAP SD Benchmark users supported**
- **28,202 SAPS**
 - 1,692,000 dialog steps per hour
 - 1.91 seconds average dialog response time

#1 Windows performance (16 processor/32 cores/64 threads) on the two-tier SAP SD Standard Application Benchmark with HP Integrity Superdome and SQL Server 2005.



Results as of 1/26/07
 For more information, see www.sap.com/benchmark
 HP Integrity Superdome Server with Microsoft SQL Server 2005 (SP1) currently available

16p/32c/64t
 Intel Itanium 2 DC
 1.6GHz
 Windows Server 2003
 Datacenter Edition
 SQL Server 2005
 Date of certification
 12/18/06

16p/16c/64t
 POWER5+ DC 2.2GHz
 AIX 5.3 DB2 UDB 8.2.2
 Date of certification
 7/25/06

16p/32c/64t
 Intel Xeon DC 3.0GHz
 Windows Server 2003
 Datacenter Edition
 DB2 UDB 8.2.2
 Date of certification
 4/20/06

16p/32c/64t
 Intel Itanium 2 DC
 1.6GHz Windows
 Server 2003 Datacenter
 Edition
 SQL Server 2005
 Date of certification
 12/19/06

HP Integrity Superdome Server configuration

Tests were performed on the Integrity server by HP's SAP Engineering lab in Cupertino, CA, USA. HP received certification from SAP AG of the Integrity Superdome result (#2006090) on December 18, 2006. The server was running Microsoft® Windows® Server 2003 Data Center SP1 operating system, Microsoft SQL Server 2005 database, and the mySAP™ ERP 2005 application. The server was configured with 16 x 1.6 GHz Dual-Core Intel Itanium 2 9050 processors (16 processors/32 cores/64 threads), with 32 KB(I) + 32 KB(D) L1 cache, 2 MB(I) + 512 KB(D) L2 cache, 24 MB L3 cache, and 256 GB main memory.

Integrity 16-processor server leads competitors

Results as of 1-27-07.

vs. IBM System p5 570 results on the two-tier SAP SD Standard Application Benchmark. The IBM System p5 570 (Certification #2006044) was configured as a 16-processor server (16 processors/16 cores/32 threads) with POWER5+ 2.26 GHz processors with 32 KB(D) + 64 KB(I) L1 cache per processor, 1.92 MB L2 cache, 36 MB L3 cache per two processors, and 128 GB main memory. The IBM p5 570 was running mySAP ERP 2004 with AIX 5.3 operating system and DB2 UDB 8.2.2 database, and achieved 5,520 SAP SD Benchmark users, equivalent to a throughput of 553,330 fully processed order line items per hour.

vs. IBM System x3950 Model 8872 results on the two-tier SAP SD Standard Application Benchmark. The IBM x3950 Model 8872 (Certification #2006019) was configured as a 16-processor server (16 processors/32 cores/64 threads) with Dual-Core Intel® Xeon® 3.0 GHz processors with L1 Execution Trace Cache, 2 MB L2 cache, and 256 GB main memory. The IBM x3950 was running mySAP ERP 2004 (64-bit) with Microsoft Windows Server 2003 Datacenter Edition (64-bit) operating system and DB2 UDB 8.2.2 (64-bit) database, and achieved 5,205 SAP SD Benchmark users, equivalent to a throughput of 528,000 fully processed order line items per hour.

The HP Integrity Superdome 16-processor server achieved 7.5% more SAP SD Benchmark users than the Dual-Core 16-processor IBM x3950 server.

vs. Unisys Enterprise Server Model ES7000/one results on the two-tier SAP SD Standard Application Benchmark. The Unisys ES7000 (Certification #2006091) was configured as a 16-processor server (16 processors/32 cores/64 threads) with Dual-Core Intel Itanium 2 9050 1.6 GHz processors with 32 KB(I) + 32 KB(D) L1 cache, 2 MB(I) + 512 KB(D) L2 cache, 24 MB L3 cache, and 256 GB main memory. The Unisys ES7000 was running mySAP ERP 2005 with Microsoft Windows Server 2003 Datacenter Edition operating system and Microsoft SQL Server 2005 database, and achieved 4,884 SAP SD Benchmark users, equivalent to a throughput of 491,330 fully processed order line items per hour.

The HP Integrity Superdome 16-processor server achieved 14.6% more SAP SD Benchmark users than the Dual-Core 16-processor Unisys ES7000 server.

The HP Integrity Advantage

Integrity Superdome

The two-tier SAP SD Standard Application Benchmark was run using 16 sockets and 4 I/O slots in a single HP Integrity Superdome cabinet. This system is capable of supporting up to 64 sockets and 96 hot-swap PCI-X I/O slots. For customers who expect their computing needs to grow, the Superdome provides a tremendous platform to start their business, and the expansion allows the option of growing their computing base.

The advantages of the partnership between HP, SAP and Microsoft

Extensive experience and a close relationship are keys to making the partnership between HP, SAP AG, and Microsoft a success. Working together, HP, SAP, and Microsoft deliver design, sizing, and project plans geared to their customers' needs and strategies. SAP, Microsoft, and HP also collaborate very closely in research and development. Tests and benchmarks provide hard facts on our performance and capabilities.

Well over 55,000+ successful joint installations reflect HP's deep understanding of the deployment and customer requirements for SAP ERP solutions and the mySAP Business Suite family of applications. No other company has completed more installations of SAP solutions than HP—that's because HP understands how to turn customer demands into business tools using mySAP Business Suite and other SAP solutions. Across all major operating systems, one out of every two SAP solution-based installations runs on HP infrastructure.

HP Virtualized Infrastructure Solutions for mySAP Business Suite

The ability to swiftly adapt to ever-changing business requirements is the key success factor in today's business environments. However, this implies an adaptive SAP solution-based landscape, which is required by many customers today. HP Virtualized Infrastructure Solutions (VIS) for mySAP Business Suite enables customers to increase the flexibility and manageability of their system landscapes that include SAP solutions.

With HP VIS for mySAP Business Suite, customers can overcome the boundaries of yesterday's infrastructure. Instead of working in inefficient silos, a simplified IT will grow in flexibility and scalability, enabling customers to respond to changes in demand more quickly by dynamically allocating computing power, storage, and network resources according to the demand of the SAP application. And better still—improved overall manageability provides substantial reductions in costs of operation.

For more information

HP Integrity Superdome: <http://www.hp.com/go/integritysuperdome>

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March 2007