



HP Integrity rx6600 Server achieves best four-processor result on two-tier SAP® SD Standard Application Benchmark running mySAP™ ERP 2005 with HP-UX 11i v3



The highly expandable HP Integrity rx6600 entry-class server is an ideal platform for demanding enterprise applications and is particularly suited for workload consolidation and virtualization. It offers superior performance and price/performance when compared to competitive offerings.

### Key results at a glance:

- The HP Integrity rx6600 attains the highest four-processor server performance outcome with 10,780 SAPS and 2,150 SAP® Sales and Distribution (SD) Standard Application Benchmark users with the mySAP™ ERP 2005 application.
- The server more than doubled Integrity four-processor performance using dual-core technology from a previous Integrity single-core benchmark.<sup>1</sup>
- This benchmark displays optimization of the latest dual-core Intel® Itanium® 2 9050 processors, HP Small Form Factor drives, and Modular Smart Array Controllers.

The new HP Integrity rx6600 Server, with dual-core Intel Itanium 2 processors, delivers the best four-processor performance result on the SAP SD Standard Application Benchmark running mySAP ERP 2005. The result defeated all other four-processor competitors running similar systems, including the Hitachi HA8000 Model 270. Server configurations are shown on the following pages.

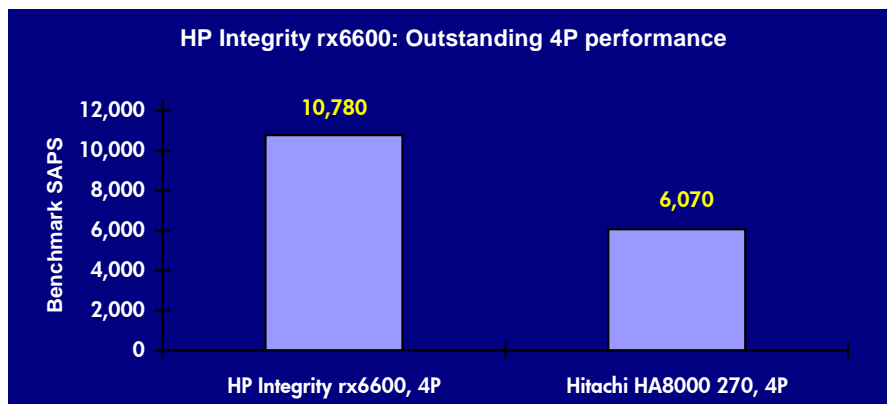


Figure 1. Comparison of performance results of the HP Integrity rx6600 four-processor Dual-Core server vs. the Hitachi HA8000 270 four-processor dual-core server.

More information about SAP benchmark results for the Integrity rx6600 Server and its competitors can be found at the following Web page: <http://www.sap.com/benchmark>

## Server configurations

Tests were performed on the server by the HP SAP Engineering lab in Cupertino, CA, USA and HP received certification from SAP AG of the results (#2006083) for the HP Integrity rx6600 Server on November 27, 2006. The server was running HP-UX 11i v3 operating system, Oracle 10g database, and mySAP ERP 2005. The servers were configured with 4 x 1.6 GHz dual-core Intel Itanium 2 9050 processors (4 processors/8 cores/16 threads), with 32 KB(I) + 32 KB(D) L1 cache, 2 MB(I) + 512 KB(D) L2 cache, 24 MB L3 cache, and 48 GB main memory.

**Results:** The HP Integrity rx6600 Server earned outstanding results on the two-tier SAP SD Standard Application Benchmark with 10,780 SAPS and 2,150 SAP SD Benchmark users, equivalent to a throughput of 121,330 fully processed order line items per hour.

<sup>1</sup> Server configurations on following page

## HP Integrity rx6600 Server heads four-processor competitors

Results as of 12-13-06.

**vs. Hitachi HA8000 270 on the two-tier SAP SD Standard Application Benchmark.** The Hitachi HA8000 270 (Certification 2006085) was configured as a four-processor server (4 processors/8 cores/16 threads) with Intel® Xeon® 7041 3.0 GHz with 16 KB L1 cache and 2 MB L2 cache per core and 32 GB main memory. The Hitachi HA8000 270 was running mySAP ERP 2005 with Microsoft® Windows® Server 2003 Enterprise Edition operating system and Microsoft SQL Server 2005 database and achieved 5,630 SAPS, and 1,125 SAP SD Benchmark users, equivalent to a throughput of 112,670 fully processed order line items per hour.

**The Integrity rx6600 Server achieved 91% more SAPS than the Hitachi HA8000 270.**

## Dual-core processors display superb scalability

HP ran a previous single-core four-processor Integrity benchmark (Certification #2004030) on May 21, 2004 with a two-tier SAP SD Standard Application Benchmark result of 4,430 SAPS and 880 SAP SD Benchmark users, equivalent to a throughput of 88,670 fully processed order line items per hour. The server, HP Integrity rx4640, was configured with 4 x 1.5 GHz single-core Intel Itanium 2 SMP processors with 32KB L1 cache, 256 KB L2 cache, and 6 MB L3 cache, and 32 GB main memory. The server was running HP-UX 11i operating system, Oracle 9i database, and the SAP R/3® Enterprise solution Release 4.70. **The Integrity rx6600 Server benchmark dual-core processor more than doubled this previous four-processor single-core benchmark result.**

## HP Integrity rx6600



The HP Integrity rx6600 Server is a highly expandable platform for workload consolidation and virtualization that redefines the entry-class. This next-generation HP Integrity server is capable of handling the demanding workloads previously possible only with larger, more costly systems. The Integrity rx6600 Server supports up to 192 GB of DDR2 memory and 16 Small Form Factor (SFF) internal hard disk drives. For additional flexibility, there will be an optional upgrade from PCI-X to PCI Express I/O.

### Other advantages include:

- Significant ROI through consolidation
- Increased flexibility in operating environment deployment
- Enhanced scalability
- Robust secured availability features
- Choice of storage

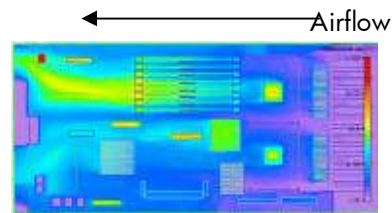
## Why We Win in Performance

### HP SFF SAS: leading the future of storage



The transition to SFF SAS drives is one of the most significant transitions in the industry's history, fueled by the biggest required leap in storage capacity ever experienced along with the need for faster access to stored data.

- **Higher reliability**
  - 1.7 million mean time between failures (MTBF) vs. 1.5 million for 3.5" SCSI
- **Better performance**
  - Serial point-to-point connections
  - More spindles per platform
- **Greater efficiency and improved thermals with SFF drives**
  - Half the power consumption – 9 Watts
  - SFF enables better airflow



## 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 rx6600 - <http://www.hp.com/servers/integrityrx6600>

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