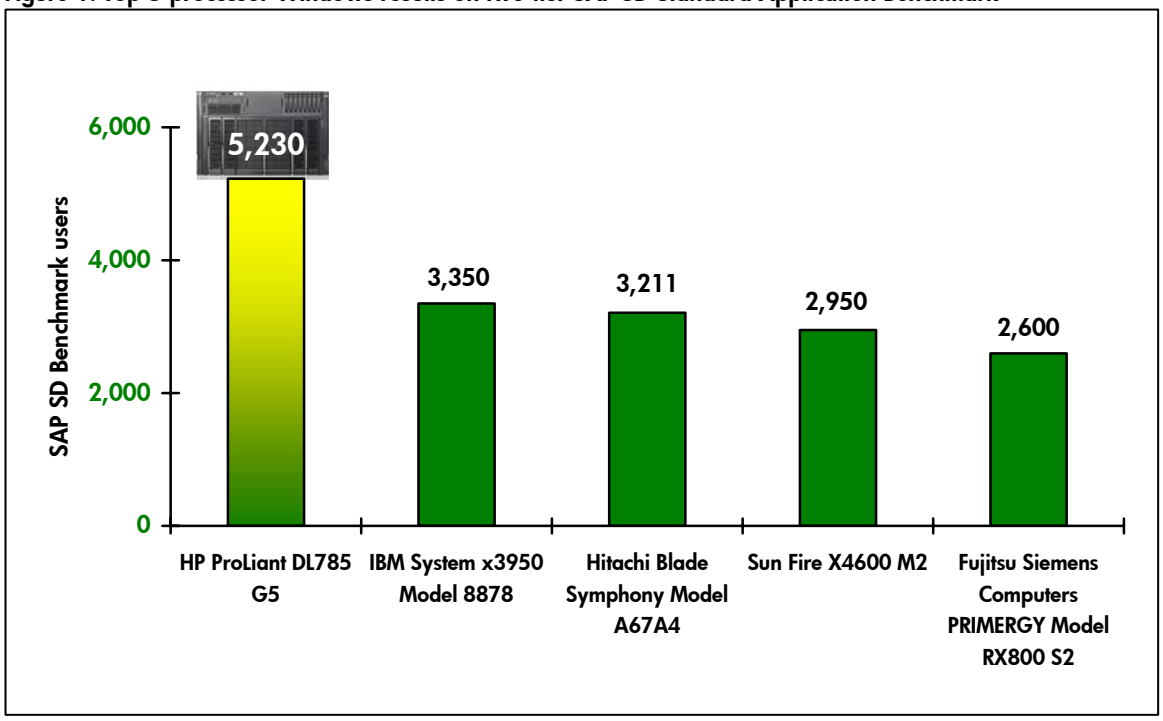
HP ProLiant DL785 G5 takes #1 8-processor Windows result with new Quad-Core AMD Opteron™ processors on two-tier SAP® Sales and Distribution Standard Application Benchmark

Key results at a glance:

- **1st HP ProLiant AMD Opteron™ 8-socket Quad-Core result on the two-tier SAP® Sales and Distribution (SD) Standard Application Benchmark.**
- **1st HP ProLiant result with new Microsoft SQL Server 2008 database on the two-tier SAP SD Benchmark.**
- **Leading 8-socket Windows performance, providing high-quality choices for HP ProLiant customers.[1]**

Figure 1. Top 8-processor Windows results on two-tier SAP SD Standard Application Benchmark[2]



Tests were performed on the HP ProLiant DL785 G5 server by HP's Houston Solution Alliances SAP Engineering lab in Houston, TX. HP received certification from SAP AG of the results on the two-tier SAP® Sales and Distribution (SD) Standard Application Benchmark for the ProLiant DL785 G5 (Certification #2008026) on May 5, 2008. The server was configured as an eight-processor system with 8 Quad-Core 2.5-GHz Quad-Core AMD Opteron Processors 8360SE (8 processors/32 cores/32 threads), with 512 KB Integrated Level 2 Cache memory per core, 2 MB Shared Level 3 Cache per processor, and 64GB main memory. The server was running Microsoft Windows Server 2003 Enterprise Edition x64 operating system, Microsoft SQL Server 2008 x64 database, and the SAP ERP application. The HP ProLiant DL785 G5 achieved 5,230 SAP SD Benchmark users, equivalent to a throughput of 523,670 fully processed order line items per hour or 26,180 SAPS.

AMD Opteron competitive positioning

The first published Quad-Core AMD Opteron 8-socket result for a ProLiant server on the two-tier SAP SD Standard Application Benchmark shows that customers have multiple choices for achieving high-quality performance with ProLiant servers and processors.

The new HP ProLiant DL785 G5 8-socket server

The HP ProLiant DL785 G5 is a powerful and highly scalable eight-socket x86 server for virtualized environments and infrastructure consolidation projects. Customers can better control operational costs with the Quad-Core AMD Opteron processor-based DL785 through improved utilization. Plus, by leveraging its expertise in industry standard technology, manufacturing and solution design and delivery, HP is driving volume economics into the eight-socket x86 server market.

The HP difference

HP provides all of the tools and services required for customers to plan their deployment of the SAP ERP application as well as the best practices and experience to help implement the application successfully without disruption to business operations. Thousands of deployments of SAP solutions worldwide run mission-critical environments on HP servers.

Unlike many other service providers, HP Services shares with its customers solid expertise in HP technology for flexible management, virtualization, consolidation, and integration of SAP solution-based environments.

In addition:

- HP is a global SAP partner offering leading support for SQL implementations. HP's strong technology capabilities are demonstrated through the results of these benchmarks. HP's SAP Consulting and Integration services practice also has strong expertise with SAP solution-based deployments, and hundreds of successful customer implementations.
- From a platform perspective, HP servers are the market leader in the SQL Server space with nearly 50% share – double our nearest competitor.

SAP and HP Partnership

HP has been partnering with SAP AG for over 20 years and is one of the largest SAP customers in the world. In fact, SAP selected HP output management technology as a recommended strategic platform. Together, SAP and HP created a remarkable legacy providing world-class business solutions to global clients. They offer a unique combination of open, flexible technologies and broad expertise. That's why nearly half of the worldwide implementations of SAP applications run on HP infrastructure.

- HP servers host almost 50% of all SAP solution-based installations with more than 60,000+ installations and more than 25,000 customers.
- HP is a worldwide leader in SAP operations, with 250+ outsourcing customers managing over 850,000 users.
- We integrate, certify, and optimize new solutions by utilizing:
  - Six SAP Solutions Centers located in Atlanta, Georgia and Houston, Texas, USA; and in Asia in Singapore, India, China, and Korea.
  - One SAP Competency Center, Walldorf, Germany.
  - 24x7 support through globally connected SAP support centers in more than 15 countries worldwide.
  - Four engineering labs located in Walldorf, Germany; Houston, Texas, USA; Marlborough, MA., USA; and Redmond, Washington, USA.
- HP uses SAP solutions for Enterprise Resource Planning and Supply Chain Management.

- HP's output management technology is a proven and recommended platform for output management in the context of SAP solutions.
- HP has been awarded SAP's highest level of partnership in 3 out of 4 key areas, including HP's SAP customer support process, which has won both the SAP Pinnacle Award and the SAP Award of Excellence. [3]

Summary

With HP's commitment to standards-based solutions and joint testing of SAP applications on HP systems, HP customers have a wide choice in comprehensive, proven solutions that meet their specific business requirements.

For more information

HP ProLiant DL785 G5: www.hp.com/servers/dl785

HP ProLiant storage solutions: www.hp.com/go/serial and http://h18004.www1.hp.com/products/servers/platforms/storage.html

SAP benchmark details: http://www.sap.com/benchmark

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[1]All results as of 05-05-2008; details can be found at http://www.sap.com/benchmark

[2]Appendix A - configurations

IBM results on the two-tier SAP SD Standard Application Benchmark. The IBM System x3950 Model 8878 **(Certification #2006061)** was configured as an 8-processor server (8 processors/16 cores/32 threads) with Dual-core Intel Xeon 7140N processors 3.3GHz with 16KB L1 cache, 1 MB L2 cache per core, and 16 MB L3 cache per processor, and 128 GB main memory. The IBM System x3950 Model 8878 server was running the mySAP™ ERP 2004 (64-bit) application with Microsoft Windows Server 2003 Datacenter Edition (64-bit) operating system and Microsoft SQL Server 2005 (64-bit) database and achieved 3,350 SAP SD Benchmark users, equivalent to a throughput of 335,330 fully processed line items per hour and 16,770 total SAPS.

Hitachi Blade Symphony Model A67A4 results on the two-tier SAP SD Standard Application Benchmark. The Hitachi Blade Symphony Model A67A4 (Certification #2008014) was configured as an 8-processor server (8 processors/16 cores/32 threads) with Dual-Core Intel Itanium 9150M 1.66 GHz processors with 32 KB(I) + 32 KB(D) L1 cache, 2 MB(I) + 512 KB(D) L2 cache, 24 MB L3 cache, and 131 GB main memory. The Hitachi Blade Symphony Model A67A4 server was running the SAP ERP Release 6.0 application with Microsoft Windows Server 2003 Enterprise Edition operating system and Microsoft SQL Server 2005 (32-bit) database and achieved 3,211 SAP SD Benchmark users, equivalent to a throughput of 321,330 fully processed line items per hour and 16,070 total SAPS.

Sun Fire X4600 M2 results on the two-tier SAP SD Standard Application Benchmark. The Sun Fire X4600 M2 **(Certification #2007077)** was configured as an 8-processor server (8 Processors / 16 Cores / 16 Threads) with Dual-Core AMD Opteron Processors 8222 3 GHz, 128 KB L1 cache and 1 MB L2 cache per core, and 64 GB main memory. The Sun Fire X4600 M2 server was running SAP ERP 6.0 with Microsoft Windows Server 2003 Enterprise Edition operating system and Microsoft SQL Server 2005 database and achieved 2,950 SAP SD Benchmark users, equivalent to a throughput of 296,330 fully processed line items per hour and 14,820 total SAPS.

Fujitsu Siemens Computers PRIMERGY Model RX800 S2 results on the two-tier SAP SD Standard Application Benchmark. The Fujitsu Siemens Computers PRIMERGY Model RX800 S2 **(Certification #2006002)** was configured as an 8-processor server (8 Processors / 16 Cores / 32 Threads), Intel XEON Dual-Core, 3 GHz, 16 KB L1 cache and 2 MB L2 cache per core, and 64 GB main memory. The Fujitsu Siemens Computers PRIMERGY Model RX800 S2 server was running mySAP ERP 2004 with Microsoft Windows Server 2003 Enterprise Edition 64-bit operating system and Microsoft SQL Server 2005 64-bit database and achieved 2,600 SAP SD Benchmark users, equivalent to a throughput of 261,330 fully processed line items per hour and 13,070 total SAPS.

[3]http://h71028.www7.hp.com/enterprise/cache/13419-0-0-0-121.html