Best Selling
Server
Worldwide

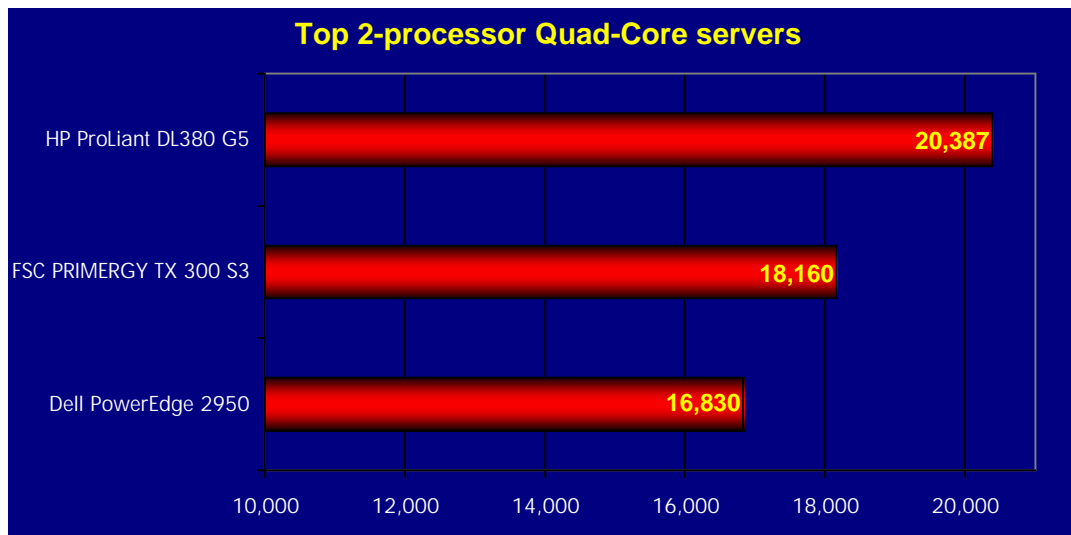# HP ProLiant DL380 G5 captures numerous #1 titles on SPECweb2005 Benchmark

The world's best-selling server, the HP ProLiant DL380 G5, recently achieved several exceptional performance records on the SPECweb2005 benchmark, surpassing Dell and Fujitsu Siemens by up to 37%. This accomplishment was achieved by utilizing Intel's latest Quad-Core processor, the Xeon X5355, in conjunction with RedHat Enterprise Linux 4 Update 4 and HP's Smart Array P400i and Smart Array P800 Controllers.

This result secured the following world-records for the ProLiant DL380 G5 :

n #1 2-socket 8-core server

n #2 overall SPECweb2005 performance

n #1 2U server

n #1 Intel-based server

Figure 1. 2-processor Quad-Core results for SPECweb2005 simultaneous user sessions

Top 2-processor Quad-Core servers

HP ProLiant DL380 G5	20,387
FSC PRIMERGY TX 300 S3	18,160
Dell PowerEdge 2950	16,830

10,000   12,000   14,000   16,000   18,000   20,000

Interpreting the results

Engineered with ProLiant reliability and proven 2-processor Intel Xeon performance for ease of ownership, enterprise-class uptime, and manageability, the HP ProLiant DL380 G5 displayed superior results on the SPECweb2005 benchmark as shown in the table below.

Configuration details	Simultaneous user sessions	Banking (SSL)	Ecommerce	Support
HP ProLiant DL380 G5 Intel Xeon X5355 (8/2/4)	20,387	36,256	28,000	17,984
Fujitsu Siemens PRIMERGY TX300 S3, Intel Xeon 5160 (8/2/4)	18,160 12% performance advantage for HP!	32,400 12% performance advantage for HP!	27,420 2% performance advantage for HP!	14.940 20% performance advantage for HP!
Dell PowerEdge 2950 Intel Xeon 5160 (8/2/4)	16,830 21% performance advantage for HP!	33,250 9% performance advantage for HP!	20,500 37% performance advantage for HP!	15,500 16% performance advantage for HP!

The HP ProLiant Advantage

SPECweb2005 result top 10

HP ProLiant DL585 G2	22,254
HP ProLiant DL380 G5	20,387
HP ProLiant DL585 G2	20,235
HP ProLiant ML370 G5	19,661
HP ProLiant DL580 G4	18,981
Dell PowerEdge 2950	16,830
Sun Fire T2000	16,407
HP ProLiant DL585	15,850
FS PRIMERGY RX600 S3	14,896
Dell PowerEdge 2950	14,495

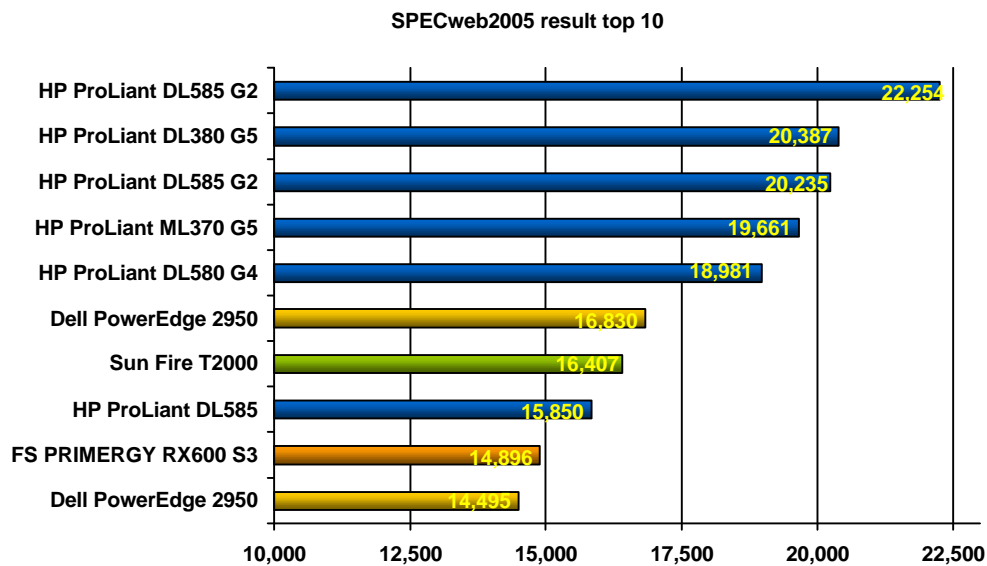10,000   12,500   15,000   17,500   20,000   22,500

Figure 2. Blue bars indicate HP results. HP ProLiant servers take 6 out of the Top 10 overall SPECweb2005 performance results.

HP ProLiant DL380 G5

Once again, the HP ProLiant DL380, the world's server sales leader, distinguishes itself as a high-performing server with its latest benchmark result.

The newest Quad-Core Intel Xeon version of the HP ProLiant DL380 G5 model is designed for improved server responsiveness, enhanced multi-tasking capabilities, and improved performance for the most demanding applications and virtualization projects. The ProLiant DL380 G5 is configured with up to two Intel Xeon 5000 series processors with Hyper Threading and Intel VT technology to improve performance in a virtual environment. The server includes up to 32MB of PC2-5300 DDR2 Fully Buffered DIMMs with 4:1 interleaving, mirrored memory, online spare capability, four PCI-Express expansion slots standard, and optional PCI-X.

HP SFF SAS: leading the future of storage

The transition to SFF SAS drives has been 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 Smart Array Controller P800

The HP Smart Array P800 is a 16 port, PCI-E SAS controller. It ships standard with 512MB cache, dual batteries, and RAID 6 (ADG) support. This controller supports up to 108 hard drives and is the highest performing controller in the Smart Array portfolio.

HP Smart Array Controller P400i

The HP Smart Array P400i is the integrated version of the P400, HP's first PCI-E SAS RAID controller, which provides new levels of performance and reliability for HP servers, through its support of the latest SCSI technology and advanced RAID capabilities. The Smart Array P400i is ideal for SAS-based servers and storage enclosures that require mission-critical reliability and high performance.

HP StorageWorks 70 Modular Smart Array

The HP StorageWorks 70 Modular Smart Array is an end-to-end flexible storage array, offering data availability, enhanced reliability, enhanced performance, and tiered storage capability with SAS and SATA drives and investment protection. Small and midrange business growing storage needs can be managed by deploying this low cost, flexible tiered storage system with up to 14.4TB capacity supporting SAS or SATA.

About SPECweb2005

This next-generation SPEC benchmark was designed by industry leading companies, including Hewlett-Packard, in order to evaluate the performance of state-of-the-art web servers. The three workloads, banking (https), e-commerce (https and http), and support (http) are designed to closely match today's real-world web server access patterns. Each workload measures simultaneous user sessions; however, the overall score of SPECweb2005 is unit-less. A server achieving a higher score represents a server with an overall better performance running all three workloads.
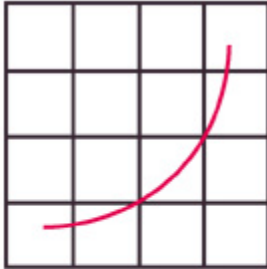
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HP ProLiant DL380 G5: www.hp.com/servers/proliantdl380

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

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