



## HP ProLiant DL580 G5 – first to break the 30,000 SPECweb2005 barrier

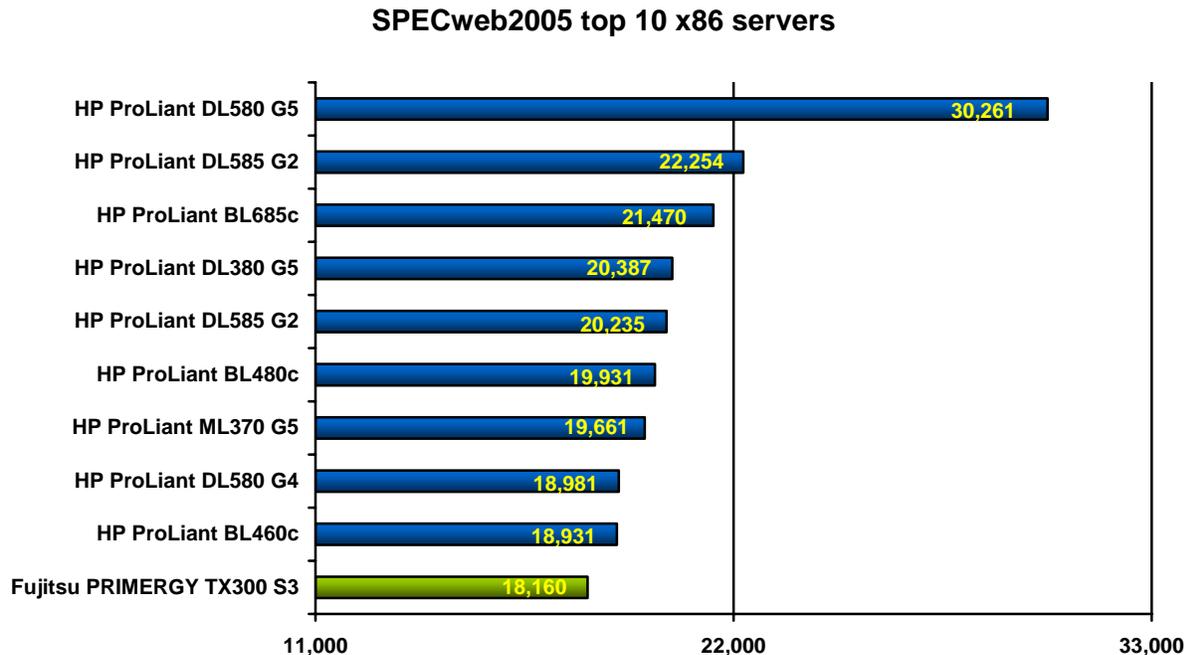


On September 5, 2007, the HP ProLiant DL580 G5 is the first server to break the 30,000 SPECweb2005 barrier with a world-record of 30,261.

This #1 score was achieved using Quad-Core Intel Xeon X7350 processors in conjunction with the latest high performance HP options, including NC364T Quad-Port PCIe NICs and HP's Smart Array P800 Controller.

HP distinguishes itself as a high-performing server vendor with its latest benchmark result, continuing the tradition established by previous generations of ProLiant servers.

**Figure 1. Blue bars indicate HP results. HP ProLiant servers take 9 out of the Top 10 SPECweb2005 performance results.**



### HP ProLiant DL580 G5: the server behind the results

The newest version of the HP ProLiant DL580, completely redesigned, and announced on 9-05-07, combines Intel's newest quad-core Intel Xeon processor technology, best-in-class availability features, and unsurpassed flexibility in a system ideal for mission-critical data center deployments. The new DL580 G5 offers twice the feature set of the previous generation DL580 G4, offering the following features as compared to the previous generation DL580 G4: quad-core Intel Xeon MP vs. dual-core, 4 FSB drops at 1,033MHz vs. 800MHz, 32 DIMM Slots for 256GB PC2-5300F 533MHz DDR2 FB DIMMs with mirrored and online spare memory capabilities (vs. 16 slots and 64GB capability), 16 SFF HDD bays vs. 8, Up to 11 PCI slots, embedded Smart Array P400 with BBWC, new front LED diagnostics, and iLO 2.

## HP NC364T PCI Express Quad Port Gigabit Server Adapter

The NC364T offers the highest port density and throughput available for ProLiant servers in a single PCI Express Ethernet network adapter.

- Four Gigabit Ethernet ports on a single PCI Express adapter, saving valuable server I/O slots for other purposes.
- High performance features including 802.1Q VLAN tagging, 802.1p QoS, stateless TCP offload capabilities, and much more.
- Advanced feature support with the optional ProLiant Essentials Intelligent Networking Pack
- Simplified management with HP Systems Insight Manager and SmartStart integration and support for PXE.

## 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

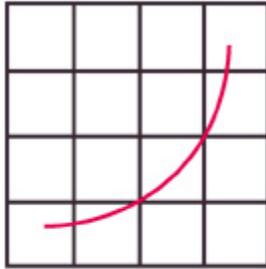
The HP Smart Array P800 is a 16 port, PCI-E SAS controller. It ships standard with 512MB cache, dual batteries, and RAID 6 (ADG) support. This controller supports up to 108 hard drives and is the highest performing controller in the Smart Array portfolio.

## HP 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.



**spec**

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