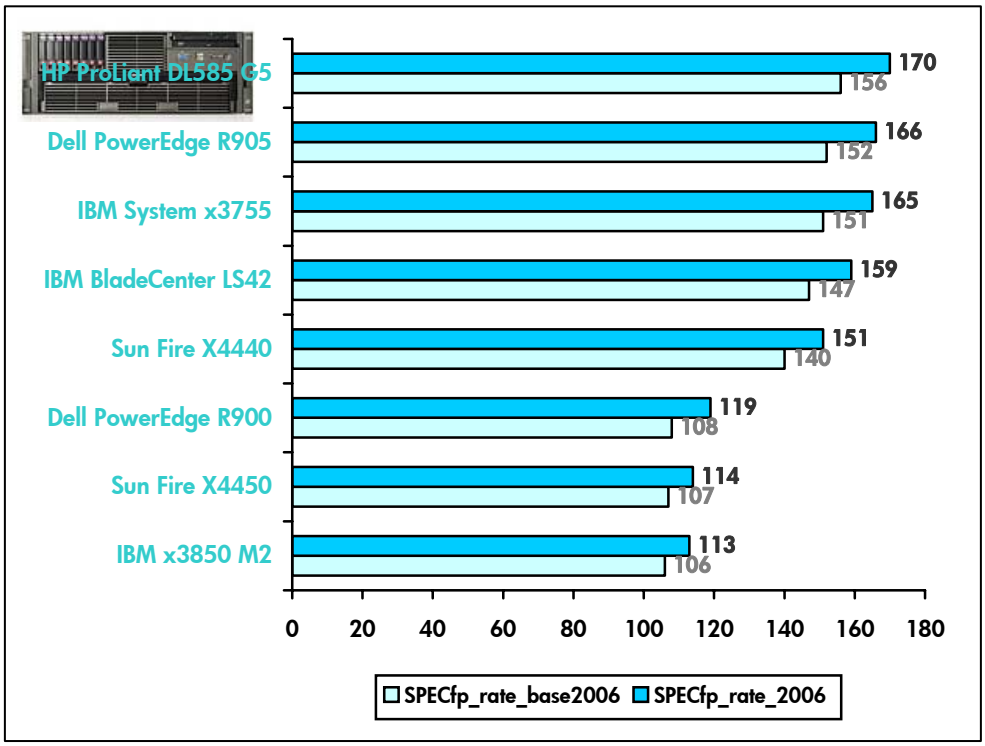
HP ProLiant DL585 G5 server with latest Quad-Core AMD Opteron™ processors takes overall x86_64 records on SPEC® CPU2006 benchmark

Key results at a glance

The ProLiant DL585 G5 with the AMD Opteron™ processor Model 8360 achieved two new records on the SPEC® CPU2006 benchmark.

- **#1 overall x86_64 SPECfp®_rate_base2006 (156)**
- **#1 overall x86_64 SPECfp_rate2006 (170)**

HP announced its latest worldwide performance records for the SPEC CPU2006 benchmarks on July 23, 2008, for a four-processor configuration.



Interpreting the results

The four-processor configuration of the HP ProLiant DL585 G5 equipped with the latest Quad-Core AMD Opteron processor Model 8360 provides the following superior performance deltas:

For x86_64 SPECfp_rate_base_2006 and x86_64 SPECfp_rate2006:

- 2% and 2% better performance than the Dell PowerEdge R905[1]
- 3% and 3% better performance than the IBM System x3755[2]
- 6% and 7% better performance than the IBM BladeCenter LS42[3]
- 11% and 13% better performance than the Sun Fire X4440[4]
- 57% and 42% better performance than the Dell PowerEdge R900[5]
- 45.7% and 49% better performance than the Sun Fire X4450[6]
- 47% and 50% better performance than the IBM x3850 M2[7]

These performance records show the exceptional performance that the ProLiant DL585 G5 enables on floating-point based compute-intensive applications. All ProLiant and competitor SPEC CPU2006 results and configurations can be found at the SPEC web site at: www.spec.org.

Performance: the server behind the results

The HP ProLiant DL585 G5 is a highly manageable, rack optimized, four-socket server designed for maximum performance in an industry standard architecture. With up to four (4) Quad-Core AMD Opteron™ processors and a large memory footprint, the DL585 G5 delivers the performance and performance-per-watt needed for compute-hungry database, virtualization, and consolidation applications. Its industry leading remote management functions help reduce costs and improve the ability to respond quickly to business changes.

About SPEC CPU2006

SPEC CPU2006 was developed by SPEC's Open Systems Group (OSG). It measures component- and system-level performance for a wide variety of operating systems and hardware that ranges from desktop systems to workstations to large-scale servers. SPEC CPU2006 replaces SPEC CPU2000, which was phased out. Performance results from SPEC CPU2006 cannot be compared to those from CPU2000, since new benchmarks have been added and existing ones changed.

What the benchmark measures

SPEC CPU2006 includes two benchmark suites: CINT2006 for measuring compute-intensive integer performance and CFP2006 for compute-intensive floating point performance.

For more information

HP ProLiant DL585 G5: www.hp.com/servers/dl585

HP ProLiant storage solutions: www.hp.com/go/serial

[1] Dell PowerEdge R905, 2.5 GHz AMD Opteron 8360 SE, 16 cores, 4 chips, 4 cores/chip. SPECfp_rate_base2006 result 152. SPECfp_rate2006 result 166.
[2] IBM System x3755, 2.5 GHz AMD Opteron 8360 SE, 16 cores, 4 chips, 4 cores/chip, SPECfp_rate_base2006 result 151. SPECfp_rate2006 result 165.
[3] IBM BladeCenter LS42, 2.3 GHz AMD Opteron 8356, 16 cores, 4 chips, 4 cores/chip, SPECfp_rate_base2006 result 147. SPECfp_rate2006 result 159.
[4] Sun Fire X4440, 2.3 GHz AMD Opteron 8356, 16 cores, 4 chips, 4 cores/chip, SPECfp_rate_base2006 result 140. SPECfp_rate2006 result 151.
[5] Dell PowerEdge R900, 2.93GHz Intel Xeon X7350, 16 cores, 4 chips, 4 cores/chip. SPECfp_rate_base2006 result 108. SPECfp_rate2006 result 119.
[6] Sun Fire X4450, 2.93GHz Intel Xeon X7350, 16 cores, 4 chips, 4 cores/chip. SPECfp_rate_base2006 result 107. SPECfp_rate2006 result 114.
[7] IBM System x3850 M2, 2.93GHz Intel Xeon X7350, 16 cores, 4 chips, 4 cores/chip. SPECfp_rate_base2006 result 106. SPECfp_rate2006 result 113.

ProLiant benchmarks: www.hp.com/servers/benchmarks

SPEC CPU2006 Overview White Paper:
ftp://ftp.compaq.com/pub/products/servers/benchmarks/SPEC_CPU2006_Overview_101907.pdf

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Appendix A

Configuration of HP ProLiant DL585 G5 #1 overall x86_64 SPECfp_rate_base2006

ProLiant DL585 G5. 2.5GHz AMD Opteron 8360. 16 cores, 4 chips, 4 cores/chip. Result: 156.

Configuration of HP ProLiant DL585G5 #1 overall x86_64 SPECfp_rate2006

ProLiant DL585 G5. 2.5GHz AMD Opteron 8360. 16 cores, 4 chips, 4 cores/chip. Result: 170.

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