

HP ProLiant DL580 G5 server posts highest 4P result on the new SPECpower_ssj™2008 benchmark



The HP Difference

The HP ProLiant DL580 G5 delivers the performance demanded by today's compute intensive applications.

Key results at a glance:

- **With 546 overall ssj_ops/watt on the new SPECpower_ssj™2008 benchmark, the ProLiant DL580 G5 achieved the highest 4P result.**
- **The performance result demonstrated how HP four-processor servers optimized the latest Quad-Core Intel® Xeon® technology for energy efficiency and high performance computing.**

The HP ProLiant DL580 G5 accomplished outstanding energy efficient performance on the SPECpower_ssj™2008 benchmark with a four-processor performance of 546 overall ssj_ops/watt. SPECpower_ssj™2008 is the first industry standard benchmark to measure server system energy usage against server system performance. This measurement provides a way to compare the energy efficiency of servers. With the ProLiant DL580 G5 results, HP has proven that it is aware of and has responded to customer concerns regarding the energy use of servers. Built upon the latest industry-standard technology, the ProLiant DL580 G5 was designed for high performance computing. More information about SPECpower benchmark results for all servers can be found at the following Web page: http://www.spec.org/power_ssj2008.

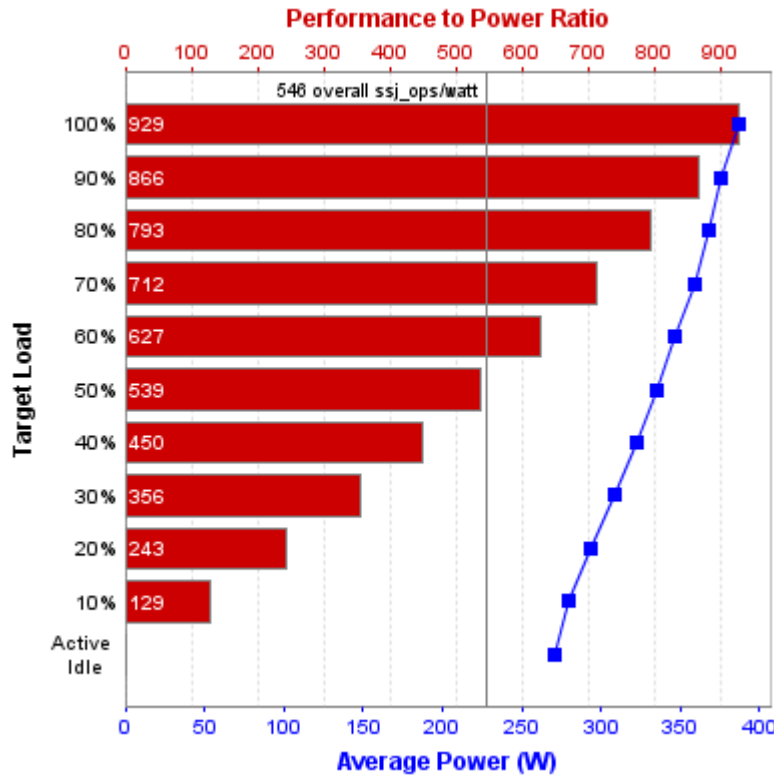


Designed for performance and energy savings: HP ProLiant DL580 G5

The HP ProLiant DL580 G5 supports HP Power Regulator, which assists in the optimization of energy usage to further drive down costs in the enterprise. Power Regulator is an innovative operating system-independent power management feature of HP ProLiant servers that offers new alternatives to manage server power consumption and system performance to meet critical business needs. This power management technology enables dynamic or static changes in CPU performance and power states. In dynamic mode, Power Regulator automatically adjusts the server's processor power usage and performance to match CPU application activity. This improves server energy efficiency by giving CPUs full power for applications when they need it and enabling power savings without performance degradation when application activity is reduced. Power Regulator effectively executes automated policy-based power management at the individual server level. In addition, a unique static low power mode allows servers to run continuously in a system's lowest power state.

More information on HP Power Regulator can be found on the following Web page: <http://h18013.www1.hp.com/products/servers/management/ilo/power-regulator.html>

Figure 1. HP ProLiant DL580 G5 SPECpower_ssj™2008 benchmark metrics



The SPECpower_ssj2008 primary metric is the “overall ssj_ops/watt”. The HP ProLiant DL580 G5 showed a 546 overall ssj_ops/watt ratio. This metric is computed by taking the sum of the ssj_ops scores for all target loads, and then dividing by the sum of the power consumption averages for all target loads – including the “active idle” (0% utilization) measurement interval.

SPECpower_ssj™2008 is the first industry standard benchmark to measure server system energy usage against server system performance. This measurement provides a way to compare the energy efficiency of servers and determine which is able to perform a certain amount of work while using the least amount of power. Being a SPEC (Standard Performance Evaluation Corporation) benchmark, SPECpower_ssj2008 is a consortium-policed benchmark that provides a way for server vendors to compare benchmark results in a fair manner.

For more information

www.hp.com/servers/benchmarks

www.spec.org

www.hp.com/servers/proliantdl580

© 2007 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

SPEC, the SPEC logo, and the benchmark names SPEC cpu2006, SPECweb2005, SPECjAppServer2004, and SPECpower_ssj™2008 are registered trademarks of the Standard Performance Evaluation Corporation (SPEC). SPEC and the benchmark name SPECpower_ssj are trademarks of the Standard Performance Evaluation Corporation. Benchmark results stated above reflect results published on <http://www.spec.org> as of November 30, 2007. For the latest SPECpower_ssj™2008 benchmark results, visit http://www.spec.org/osg/power_ssj2008. The SPEC logo is © 2007 Standard Performance Evaluation Corporation (SPEC), reprinted with permission. The competitive benchmark results stated herein reflect results published on www.spec.org as of the dates listed on their respective Web pages. December 2007

