HP ProLiant DL785 G6 #1 8-socket single-node on SPECpower_ssj2008

Another amazing 48-core result with new Six-Core AMD Opteron™ processors

- The only single-node 8-socket result posted
- Scales 39.9% over ProLiant DL785 G5 32-core result

HP performance brief

Benchmark: SPECpower_ssj2008

#1 8-processor energy efficiency

The HP ProLiant DL785 G5 achieved #1 8-processor energy efficient performance on the SPECpower_ssj™2008 benchmark with a score of 1,297 overall ssj_ops/watt.

Only posted 8-processor single-node result

HP knows how important it is for customers to understand the performance per watt across various workloads on the server and to compare scaling across server platforms with different numbers of processors.

Increased scalability with Six-Core processors

As compared to the previous generation Quad-Core result of the DL785 G5 of 927 overall ssj_ops/watt running a Microsoft Windows operating system, the Six-Core DL785 G6 result showed 39.9% increased performance.

Business outcomes

With this result, the DL785 G6 shows its capability to deliver excellent performance while also reducing energy costs.

Figure 1. Top 8-processor single-node performance

ProLiant DL785 G6 scores 1,297 overall ssj_ops/watt

Test results as of 09-08-09. For more details, please visit: http://www.spec.org/power_ssj2008/results/power_ssj2008.html

What are the benefits of using the HP ProLiant DL785 G6 for energy savings?

HP understands customers’ business needs and is best equipped to deliver a consolidation and virtualization solution to fit those needs. The industry’s 8-socket workhorse, the DL785 G6 delivers leading single-node 8-processor energy efficiency for x86 enterprise applications.

The HP ProLiant DL785 is also in Climate Savers computing product catalog.
What SPECpower_ssj2008 measures
SPECpower_ssj2008 is the first generation SPEC benchmark for evaluating the power and performance characteristics of server class computers. This measurement provides a way to compare the power/performance or energy efficiency of servers. As with previous SPECpower_ssj2008 benchmark world records, HP demonstrates that its ProLiant server family, built upon the latest industry-standard technology, is an industry leader in energy efficiency.

Currently, many vendors report some energy-efficiency figures, but these are often not directly comparable due to differences in workload, configuration, test environment, etc. SPEC defines server power measurement standards with the same keen attention to detail it has applied to performance. This benchmark provides a means to measure power in conjunction with a performance metric, enabling IT managers to consider power characteristics to increase the efficiency of data centers. Being a Standard Performance Evaluation Corporation (SPEC) benchmark, SPECpower_ssj2008 is a peer-reviewed benchmark that provides a way for server vendors to compare benchmark results in a fair manner. More information about SPECpower_ssj2008 results can be found at the following Web page:
http://www.spec.org. Results as of 09-08-09.

Technology for better business outcomes
To learn more, visit
www.hp.com/servers/proliantdl785

© 2009 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. Linux is the registered trademark of Linus Torvalds in the U.S. and other countries. Microsoft and Windows are registered trademarks of Microsoft Corporation. SPEC, the SPEC logo, and the benchmark name SPECpower_ssj are registered trademarks of the Standard Performance Evaluation Corporation (SPEC). Results stated above reflect results published as of September 8, 2009. For the latest SPECpower_ssj2008 benchmark results, visit http://www.spec.org/power_ssj2008. The SPEC logo is © 2009 Standard Performance Evaluation Corporation (SPEC), reprinted with permission. September 2009.