HP ProLiant BL280 G6: First blade to earn power performance result on SPECpower_ssj2008 benchmark

Benefits of the HP ProLiant BL280c G6

HP announced the first ever blade result on the SPECpower_ssj2008 benchmark for the HP ProLiant BL280c G6, accepted on July 15, 2009. For more information, see: www.hp.com/servers/benchmarks.

The HP BladeSystem continues to expand its portfolio of products specifically designed for high performance and scale-out datacenters with the addition of the BL280c G6 server blade. With outstanding dual-processor performance and price per watt, the BL280c helps reduce overall datacenter power consumption while maintaining high performance.

The new Intel® Xeon® 5500 series processors provide significant performance improvements and faster I/O throughput. Also, the new DDR3 memory technology is more energy efficient and has better cooling than existing memory options. Overall, the BL280c offers customers the latest technology for improved power efficiency and performance optimization. For more information, see: HP ProLiant BL280 G6 www.hp.com/servers/proliantbl280cg6

Benefits of HP and Oracle J Rockit® JVM

Oracle JRockit JVM is a high performance Java Virtual Machine now built into Oracle Fusion Middleware. It brings real time infrastructure capabilities with JRockit Real Time and JVM diagnostics with JRockit Mission Control. Customers can lower operating costs and mitigate risks by choosing proven, reliable solutions from trusted business partners—HP and Oracle.

What SPECpower_ssj2008 measures

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.

Understanding the results

With an excellent energy efficient performance result of 1,877 ssj_ops/watt, the HP ProLiant BL280c G6 was the first blade to earn a spot on the SPECpower_ssj2008 benchmark. 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 its 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.

Figure 1. ProLiant BL280c G6 shows outstanding results for performance to power ratio.

The new BL280c G6 server blade delivers excellent performance and energy savings to reduce overall datacenter spending in power constrained scale-out environments. Its major advantages include:

- High performance and efficiency
- Simple, flexible feature set for system optimization
- Industry-leading management tools

And, with the iLO 2 Advanced Pack, the ProLiant BL280c G6 server features its energy efficient proficiency with:

- Power Capping to enforce control of blade power consumption
- Power Regulator Reporting

More information about SPECpower_ssj2008 results can be found at the following web page: http://www.spec.org. HP results accepted 07-15-09. Hardware/software availability: August 2009.

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