

IBM posts SPECpower_ssj2008 result for new x3350

x3350 delivers solid performance per watt for a single-socket server

August 12, 2008 ... IBM® has published a SPECpower_ssj2008 benchmark result for the IBM System x™ 3350 server, a 1-socket system that incorporates Quad-Core Intel® Xeon® processor technology. For constrained data center environments, the x3350 offers energy-efficient, high-performance with quad-core computing at a very affordable cost, and with leaner power and cooling consumption than some competitive 1U, 2-processor servers.

Demonstrating excellent performance per watt, the x3350 server achieved a Performance to Power Ratio of 974 overall ssj_ops/watt on the SPECpower_ssj2008 benchmark,

The x3350's score is more than 21 percent higher than the 800 overall ssj_ops/watt achieved by the Dell PowerEdge R300 with the Quad-Core Intel Xeon Processor L5410 (2.33GHz, 12MB L2 cache, and 1333 MHz front-side bus—4 cores/1 chip/4 cores per chip).

The x3350's score is also more than 7 percent higher than the 908 overall ssj_ops/watt achieved by the HP ProLiant DL120 G5 with the Quad-Core Intel Xeon Processor X3360 (2.83GHz, 12MB L2 cache, and 1333 MHz front-side bus—4 cores/1 chip/4 cores per chip). (1)

The x3350 was configured with the Quad-Core Intel Xeon Processor X3360 (2.83GHz, 12MB L2 cache, and 1333 MHz front-side bus—4 cores/1 chip/4 cores per chip) and 4GB of DDR2 PC2-6400 memory and ran IBM Java™ 6 Runtime Environment and Microsoft® Windows® Server 2003 R2 Enterprise x64 Edition SP1. (2)

SPECpower_ssj2008 is a SPEC benchmark that evaluates the power and performance characteristics of volume server class computers. SPEC recognizes that the IT industry, computer manufacturers, and governments are increasingly concerned with the energy use of servers. This benchmark provides a means to measure power (at the AC input) in conjunction with a performance metric. The goal is to help IT managers to consider power characteristics, along with other selection criteria, to increase the efficiency of data centers. For a complete description of the SPECpower_ssj2008 benchmark, go to the SPEC Web site at www.spec.org/power_ssj2008/.

Result referenced is current as of August 12, 2008, and has been submitted to SPEC® for review. Upon successful review, the result will be posted at www.spec.org. View all published results at www.spec.org/power_ssj2008/results/power_ssj2008.html.

(1) The comparisons are based on the best performing 1-processor servers currently shipping by Dell and HP. Competitive benchmark results stated above reflect results published on www.spec.org as of August 12, 2008. View all published results at www.spec.org/power_ssj2008/results/.

(2) The x3350 model using the Quad-Core Intel Xeon Processor X3360 (2.83GHz, 12MB L2 cache, and 1333 MHz FSB) is planned to be generally available on September 19, 2008.

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