

IBM posts SPECpower_ssj2008 result for new x3450

x3450 achieves competitive score for a 2-socket Intel processor-based system

March 27, 2008 ... IBM® System x™ 3450 servers, designed for high performance computing (HPC) applications, are a new addition to the System x rack-optimized server line. These 2-socket servers deliver Intel® Xeon® dual- and quad-core power and excellent server function. This highly manageable 1 U high, rack-optimized server features ultimate application density for power-managed data centers.

The x3450 systems are highly scalable in configuration and performance, and are flexible rack models that deliver the best blend of power, manageability, expandability, and serviceability. They meet the requirements of server applications in the high performance computing space that require maximum available performance and large memory addressability. These servers fit into business environments where rack configurations are required.

In recent measurements made with the new SPECpower_ssj2008 benchmark, the x3450 server achieved a Performance to Power Ratio of 854 overall ssj_ops/watt. This score is 22 percent higher than the 698 overall ssj_ops/watt achieved by the HP ProLiant DL160 G5 with the Quad-Core Intel Xeon Processor E5450 (3.00GHz, 2x6MB shared L2 cache, and 1333 MHz front-side bus—8 cores/2 chips/4 cores per chip). The x3450's score is also nearly 10 percent higher than the 778 overall ssj_ops/watt achieved by the HP ProLiant DL180 G5 with the Quad-Core Intel Xeon Processor E5450 (3.00GHz, 2x6MB shared L2 cache, and 1333 MHz front-side bus—8 cores/2 chips/4 cores per chip). (1)

The x3450 was configured with the Quad-Core Intel Xeon Processor E5462 (2.8GHz, 12MB L2 cache, and 1600 MHz front-side bus—8 cores/2 chips/4 cores per chip) and 16GB of DDR2 PC2-5300 FBD memory and ran IBM Java™ 6 Runtime Environment and Microsoft Windows Server 2003 R2 Enterprise x64 Edition SP1. (2)

For information about the SPECpower_ssj2008 benchmark, go to the SPEC Web site at www.spec.org/power_ssj2008/.

(1) Competitive benchmark results stated above reflect results published on www.spec.org as of March 27, 2008. The comparison presented is based on the best overall ssj_ops/watt scores published as of March 27, 2008, for 2-processor servers available from IBM and HP. View all published results at www.spec.org/power_ssj2008/results/power_ssj2008.html.

(2) Planned general availability for the x3450 model using the Quad-Core Intel Xeon Processor E5462 (2.8GHz, 12MB L2 cache, and 1600 MHz FSB) is May 22, 2008.

IBM and System x are trademarks or registered trademarks of International Business Machines Corporation.

Intel and Xeon are trademarks or registered trademarks of Intel Corporation.

Java and all Java-based trademarks are trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

SPEC is a registered trademark and SPECpower_ssj is a trademark of the Standard Performance Evaluation Corporation (see www.spec.org/spec/trademarks.html for all SPEC trademarks and service marks).

All other company/product names and service marks may be trademarks or registered trademarks of their respective companies.