

xSeries 445 delivers top SPECint_rate2000 performance for 8-way IA-32 systems

September 30, 2003 ... IBM® has posted the best 8-way performance results published to date for Intel® Xeon™ processor-based servers running SPECint_rate2000, which is one of the SPEC CPU2000 benchmark suites. (1)

Powered by IBM Enterprise X-Architecture™, the IBM @server® xSeries® 445 achieved a SPECint_rate2000 (2) peak score of 75.2 using eight processors. This score handily beat the Unisys ES7000 Aries 520's 8-way SPECint_rate2000 peak score of 71.0. (3) The x445 and the Unisys servers used the Xeon MP 2.8GHz processor with 2MB L3 cache.

In measurements using 16 Xeon MP 2.8GHz processors, the x445 achieved a SPECint_rate2000 peak score of 131.

(1) SPEC CPU2000 is a next-generation industry-standard CPU-intensive benchmark suite designed to provide a comparative measure of compute-intensive performance across the widest practical range of hardware. SPEC CPU2000's standardized benchmarks reflect the advances in microprocessor technologies, compilers and applications that have taken place over the last five years. SPEC CPU2000 has been designed to measure throughput for single-processor, symmetric-multiprocessor, and cluster systems.

SPEC CPU2000 comprises two sets (or suites) of benchmarks: CINT2000 for measuring compute-intensive integer performance, and CFP2000 for compute-intensive floating point performance. The two suites measure the performance of a computer's processor, memory architecture and compiler. SPEC CPU2000 incorporates run and reporting rules that permit both baseline (base) and optimized (peak) results for the CINT2000 and CFP2000 suites. SPEC CPU2000 provides performance measurements for system speed and throughput.

(2) SPECint_rate2000, a throughput metric, measures the number of tasks a computer can complete in a given amount of time.

(3) Competitive benchmark results referenced reflect results published on www.spec.org as of September 30, 2003. The comparisons presented are based on the best-performing IA-32 processor-based 8-way servers from IBM and Unisys.

To view all SPEC CPU2000 benchmark results, visit www.spec.org.

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