

IBM posts SPEC CPU2000 scores for new xSeries 306 server

March 16, 2004 ... The IBM® eServer® xSeries® 306, a uniprocessor server that features the Intel® Pentium® 4 processor at 3E GHz with a 1MB L2 cache, has demonstrated excellent performance on SPEC CPU2000, which comprises the SPEC CFP2000 and SPEC CINT2000 benchmark suites. (1)

The x306 has posted the best 1-way SPECfp_rate 2000 performance score for an IA-32 server. On SPEC CFP2000, the x306 achieved a SPECfp_rate2000 peak score of 16.4 and a SPECfp2000 peak score of 1,370. (2)

On SPEC CINT2000, the x306 achieved a SPECint_rate2000 peak score of 16.4 and a SPECint2000 peak score of 1,336. (2)

The x306 achieved these results using the Intel Pentium 4 3E GHz processor and running Windows Server 2003.

(1) SPEC CPU2000, a next-generation industry-standard CPU-intensive benchmark suite, provides a comparative measure of compute-intensive performance across the widest practical range of hardware. SPEC CPU2000 standardized benchmarks reflect advances in microprocessor technologies, compilers and applications that have taken place over the last five years. SPEC CPU2000 measures system speed and 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. Run and reporting rules permit baseline and optimized (peak) results for the CINT2000 and CFP2000 suites.

(2) CINT2000 measures compute-intensive integer performance. The throughput metric, SPECint_rate2000, measures the number of tasks a computer can complete in a given amount of time. The speed metric, SPECint2000, measures how fast a machine completes the running of the CINT2000 suite. CFP2000 measures compute-intensive floating point performance. The throughput metric, SPECfp_rate2000, measures the number of tasks a computer can complete in a given amount of time. The speed metric, SPECfp2000, measures how fast a machine completes the running of the CFP2000 suite.

Results are current as of March 16, 2004. The x306's scores have been submitted to SPEC for review and will be posted on their Web site upon successful completion of the review. For all SPEC CPU2000 benchmark results, visit www.spec.org.

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