

## **IBM posts SPEC CPU2000 scores for new e325 server**

September 16, 2003 ... The IBM® *e*server™ 325, which features the AMD Opteron™ Processor Model 246, has demonstrated excellent performance on SPEC CPU2000, which comprises the SPEC CINT2000 and SPEC CFP2000 benchmark suites. (1) The e325 has posted the best 2-way performance for a server using x86 architecture and running a Linux operating system.

On SPEC CINT2000, the e325 achieved a SPECint\_rate2000 peak score of 27.5 using two processors and a SPECint2000 peak score of 1,239. (2)

On SPEC CFP2000, the e325 achieved a SPECfp\_rate2000 peak score of 27.0 using two processors and a SPECfp2000 peak score of 1,231. (2)

The e325 achieved these results using the AMD Opteron 2.0 GHz processor and running under SuSE Linux SLES 8.0 for x86-64, with the Portland Group 5.0-1 Fortran and Gnu gcc3.3 C/C++ compilers.

(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 September 16, 2003. For all SPEC CPU2000 benchmark results, visit [www.spec.org](http://www.spec.org). The e325's scores have been submitted to SPEC for review and will be posted on their Web site upon successful completion of the review.

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