IBM System x3755 posts leadership scores for a 4-socket x86 server running the SPEC CPU2006 benchmark suites

August 28, 2007 ... The IBM® System x™ 3755 server is an attractive platform for high performance computing, particularly for Linux® clusters where clients value high performance, manageability, and optimal price/performance per watt. The x3755 is ideal for applications such as weather simulation, financial analysis, CAD and oil exploration, all of which take advantage of the performance delivered with this system.

The x3755 is a 4-socket system that offers state-of-the-art AMD dual-core processors and large memory capacity with IBM Xcelerated Memory Technology™, which allows all eight memory DIMMs per processor to run at the maximum speed of 667MHz. The competition clocks memory down to 533MHz after more than four DIMMs are populated.

In SPEC CPU2006 measurements, the x3755 achieved leadership scores for a 4-socket x86 server on both SPEC CPU2006 benchmark suites: CINT2006, which measures compute-intensive integer performance, and CFP2006, which measures compute-intensive, floating-point performance.

The x3755 used the dual-core AMD Opteron™ Model 8224 SE processor (3.2GHz, 1MB L2 cache per core—4 processors/8 cores/8 threads) and SUSE Linux Enterprise Server 10 64-bit. (1)
The scores in the following table are the first SPEC CPU2006 results published for this x3755 processor model.

SPEC CPU2006 Benchmark	x3755 – Dual-Core AMD Opteron Model 8224 SE Processor (3.2GHz, 2MB L2 Cache)
SPECint2006	15.2
SPECint_rate2006	114
SPECfp2006	14.5
SPECfp_rate2006	99.6

Results are current as of August 28, 2007. The scores have been submitted to SPEC for review and will be posted on their Web site upon successful completion of the review. View all published results at www.spec.org.

(1) Planned availability for the x3755 model using the dual-core AMD Opteron Processor Model 8224 SE (3.2GHz, 2MB L2 cache) is October 5, 2007.