IBM System x3755 delivers competitive performance on SPEC CPU2000

August 15, 2006 ... The IBM® System x™ 3755 server is optimized for high-performance computing applications used in Linux® clustering. The highly manageable, 4U, rack-optimized platform features up to four dual-core SMP-capable, floating-point processors for high memory-intensive performance at an affordable price. Flexible configurations provide entry pricing with the ability to add redundant features as needed.

The x3755 features the new dual-core AMD Opteron™ 8000 Series processors at speeds of up to 2.8GHz with an integrated full-speed 2MB L2 cache. The System x3755 system offers large memory capacity—up to 128GB—and high memory bandwidth, and PCI-X, PCI-E, and HTX technology buses to power through core-, memory-, and I/O-intensive applications. (1)

The x3755 with the AMD Opteron 8220 SE processor (2.8GHz/1MB L2 cache per core—4 processors/8 cores) demonstrated competitive performance on SPEC CPU2000, which comprises the SPEC CINT2000 and SPEC CFP2000 benchmark suites. These results were achieved using SUSE Linux Enterprise Server 9 SP3.

The scores in the following table are the first SPEC CPU2000 results published for this processor model.

Benchmark	x3755 – AMD Opteron 2220 SE Processor (2.8GHz, 2MB L2 Cache)
SPECint (1P)	1,818
SPECint_rate2000 (4P)	164.0
SPECfp (1P)	2,172
SPECfp_rate2000 (4P)	169.0

Results are current as of August 15, 2006. 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 AMD Opteron 8220 SE Processor (2.8GHz, 2MB L2 cache) is September 15, 2006.