IBM System x3455 delivers solid performance on SPEC CPU2006

x3455 posts competitive SPEC CPU2006 scores for a 2-socket system

April 10, 2007 ... The IBM® System x™ 3455 server excels at the compute-intensive applications used in high-performance clustering environments. The highly manageable, ultrathin 1U, rack-optimized platform is a 2-socket-, 4-core-capable server designed for high performance at an affordable price. (1)

The x3455's processor each contain an integrated memory controller with IBM Xcelerated Memory Technology™, which enables faster access to data, and helps provide outstanding performance for large memory configurations with the ability to support 667MHz memory access speed of fully populated memory. The x3455 supports up to 48GB of PC5300 667MHz ECC DDR II memory with IBM Chipkill technology for high-performance and reliability.

The x3455 using the dual-core AMD Opteron™ 2222 SE processor (3.0GHz, 1MB L2 cache per core—2 processors/4 cores/4 threads) demonstrated competitive performance for a 2-socket AMD system on the SPEC CPU2006 benchmark suite. These results were achieved using SUSE Linux® Enterprise Server 9 SP3.

The scores in the table are the first SPEC CPU2006 results published for this processor model.

SPEC CPU2006 Benchmark	x3455 – Dual-Core AMD Opteron Model 2222 SE Processor (3.0GHz, 2MB L2 Cache)
SPECint2006	13.2
SPECint_rate2006	50.0
SPECfp2006	14.5
SPECfp_rate2006	49.6

SPEC CPU2000 was released six years ago. Since then, advances in technology and the resulting improvements in hardware and software have made it necessary to ensure that the benchmarks are also improved so that they keep pace. SPEC CPU2006 is designed to measure more technologically advanced systems; hence, these results should not be compared with CPU2000 results.

Results are current as of April 10, 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 x3455 model using the AMD Opteron 2222 SE Processor (3.0GHz, 2MB L2 cache) is May 25, 2007.