IBM BladeCenter HX5 blade achieves competitive 2- and 4-processor scores running SPEC CPU2006 benchmark suite

August 3, 2010 ... The IBM® BladeCenter® HX5 is a high-performance, scalable blade server that incorporates the fifth generation of IBM X-Architecture® technology. The HX5 offers outstanding performance using the Intel® Xeon® 7500 Series processors. In recent measurements, the HX5 demonstrated excellent performance for 2- and 4-socket Intel processor-based systems on the SPEC® CPU2006 benchmark suite.

The HX5 achieved competitive scores, configured with two Intel Xeon X7560 processors (2.26GHz, 256KB L2 cache per core and 24MB L3 cache per processor—2 processors/16 cores/32 threads), 128GB of DDR3 PC3-8500R memory, and SUSE Linux® Enterprise Server 11 x64.

The HX5 achieved competitive scores, configured with four Intel Xeon X7560 processors (2.26GHz, 256KB L2 cache per core and 24MB L3 cache per processor—4 processors/32 cores/64 threads), 256GB of DDR3 PC3-8500R memory, and SUSE Linux Enterprise Server 11 x64.

These scores are the first SPEC CPU2006 results published for this HX5 processor model.

SPEC CPU2006 Benchmark	IBM BladeCenter HX5 with Two Intel Xeon X7560 Processors – 2.26GHz	IBM BladeCenter HX5 with Four Intel Xeon X7560 Processors – 2.26GHz
SPECint®2006	32.1	32.4
SPECint_base2006	28.6	28.8
SPECint_rate2006	376	749
SPECint_rate_base2006	352	702
SPECfp®2006	36.5	38.4
SPECfp_base2006	34.1	34.6
SPECfp_rate2006	268	533
SPECfp_rate_base2006	259	517

The IBM BladeCenter HX5 leverages eX5, the fifth generation of IBM Enterprise X-Architecture, and combines exceptional processing power, memory capacity, and I/O bandwidth in a blade form factor. The scalable HX5 blade server provides maximum utilization, performance, and reliability for compute- and memory-intensive workloads such as database, virtualization, business intelligence, modeling and simulation, and other enterprise applications. The HX5 is a single-wide (30 mm), scalable, high-performance blade server that can accommodate two Intel Xeon 7500 or 6500 series processors and 16 DDR3 VLP DIMMs per single-wide node. The HX5 is scalable to 4-sockets and 32 DIMMs in double-wide form factor.

Results are current as of August 3, 2010. 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) The HX5 model using the Intel Xeon X7560 processor is planned to be generally available October 29, 2010. The HX5 as configured for this benchmark will be available October 29, 2010.