

IBM BladeCenter HX5 blade achieves competitive two- and four-processor scores running SPEC CPU2006 benchmark suite

April 6, 2011 ... 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® E7-4800 Series processors. In recent measurements, the HX5 demonstrated excellent performance for two- and four-socket Intel processor-based systems on the SPEC® CPU2006 benchmark suite.

The HX5 achieved competitive scores, configured with two Intel Xeon E7-4870 processors (2.40GHz, 30MB L3 cache per core per processor—2 processors/20 cores/40 threads), 128GB of DDR3 PC3-8500R memory, and SUSE Linux® Enterprise Server 11 x64.

The HX5 achieved competitive scores, configured with four Intel Xeon E7-4870 processors (2.40GHz, 30MB L3 cache per core per processor—4 processors/40 cores/80 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	Two Intel Xeon E7-4870 Processors – 2.40GHz	Four Intel Xeon E7-4870 Processors – 2.40GHz
SPECint@2006	36.2	37.0
SPECint_base2006	33.5	34.1
SPECint_rate2006	535	1,080
SPECint_rate_base2006	502	1,000
SPECfp@2006	50.6	55.8
SPECfp_base2006	46.4	51.1
SPECfp_rate2006	369	733
SPECfp_rate_base2006	356	706

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 E7-2800 Series processors and 16 DDR3 VLP DIMMs per single-wide node. In the double-wide form factor, the HX5 can accommodate four Intel Xeon E7-4800 Series processors and 32 DIMMs.

Results are current as of April 6, 2011. 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 E7-4870 processor is planned to be generally available May 27, 2011. The HX5 as configured for this benchmark will be available May 27, 2011.

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