

IBM posts SPEC CPU2006 scores for x3850 X5

x3850 X5 delivers competitive four-processor performance for compute-intensive applications

April 6, 2010 ... IBM® has published SPEC® CPU2006 benchmark scores for the IBM System x® 3850 X5 server featuring eX5, the fifth generation of IBM X-Architecture®, and the new Intel® Xeon® E7-4800 Series processors.

The x3850 X5 delivered a SPECfp_rate_base2006 score that is leadership for an x86 server using four processors. All other scores on the SPEC CPU2006 benchmark suite were competitive. The x3850 X5 was configured with four Intel Xeon E7-4870 processors (2.40GHz, 30MB L3 cache per processor—4 processors/40 cores/80 threads), 512GB of DDR3 PC3-8500R memory, and SUSE Linux® Enterprise Server 11 x64. (1)

The scores in the following table are the first SPEC CPU2006 results published for this x3850 X5 processor model.

SPEC CPU2006 Benchmark	Four Intel Xeon E7-4870 Processors – 2.40GHz
SPECint®2006	36.1
SPECint_base2006	33.3
SPECint_rate2006	1,070
SPECint_rate_base2006	1,000
SPECfp®2006	55.4
SPECfp_base2006	51.0
SPECfp_rate2006	741
SPECfp_rate_base2006	713

The x3850 X5 server leverages fifth-generation IBM Enterprise X-Architecture®, delivering innovation with enhanced reliability and availability features to enable optimal performance for databases, enterprise applications, and virtualized environments. The x3850 X5 is a versatile 4-socket, 4U rack-optimized scalable enterprise server that supports up to 1TB of memory. In addition to higher levels of function than its predecessors, the x3850 X5 offers up to 8-socket (64-core) SMP operations with powerful 6-, 8- and 10-core Intel Xeon MP processors and up to 3TB of system memory in an 8-socket (64-core) complex. The optional IBM MAX5 for System x—a scalable, 1U, memory expansion drawer—provides an additional 32 DIMM slots with a memory controller for added performance and a node controller for x3850 scalability.

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 <http://www.spec.org/cpu2006/results/>.

(1) The x3850 X5 model using the Intel Xeon E7-4870 processor is planned to be generally available May 20, 2011. The x3850 X5 as configured for this benchmark will be available May 20, 2011.

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