

IBM posts SPEC CPU2006 scores for x3850 X5

x3850 X5 delivers leadership x86 4-processor SPECfp_rate_base2006 score and leadership x86 2-processor SPECint_rate_base2006 and SPECfp_rate_base2006 scores

March 30, 2009 ... 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® 7500 Series processors.

The x3850 X5 delivered a SPECfp_rate_base2006 score that is leadership for an x86 server using 4 processors. All other 4-processor scores on the SPEC CPU2006 benchmark suite were competitive. The x3850 X5 was configured with four Intel Xeon X7560 processors (2.26GHz, 24MB L3 cache per processor—4 processors/32 cores/64 threads), 256GB of DDR3 PC3-10600R memory, and SUSE Linux® Enterprise Server 11 x64. (1)

The x3850 X5 delivered SPECint_rate_base2006 and SPECfp_rate_base2006 scores that are leadership for an x86 server using 2 processors. All other 2-processor scores on the SPEC CPU2006 benchmark suite were competitive. The x3850 X5 was configured with two Intel Xeon X7560 processors (2.26GHz, 24MB L3 cache per processor—2 processors/16 cores/32 threads), 128GB of DDR3 PC3-10600R 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	IBM System x3850 X5 with Four Eight-Core Intel Xeon Processor X7560 – 2.26GHz	IBM System x3850 X5 with Two Eight-Core Intel Xeon Processor X7560 – 2.26GHz
SPECint®2006	32.6	32.1
SPECint_base2006	29.1	28.8
SPECint_rate2006	770	387
SPECint_rate_base2006	720	362
SPECfp®2006	38.6	36.8
SPECfp_base2006	35.1	34.7
SPECfp_rate2006	560	283
SPECfp_rate_base2006	543	274

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 4-, 6-, and 8-core Intel Xeon MP processors and up to 3TB of system memory in an 8-socket (64-core) complex. This system is ideal for clients who require additional SMP capability or greater scalability for future growth.

Results are current as of March 30, 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 <http://www.spec.org/cpu2006/results/>.

(1) The x3850 X5 model using the Intel Xeon X7560 processor is planned to be generally available March 31, 2010. The x3850 X5 as configured for this benchmark will be available March 31, 2010.

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