

IBM posts SPEC CPU2006 scores for new blade server using quad-core AMD Opteron processor

November 13, 2008 ... The IBM® BladeCenter® chassis and the AMD Opteron™ LS42 for IBM BladeCenter combine extremely high-density design points with high performance and advanced server functions. These dense products can double the processing power within a 7U, 8U, or 9U rack space over 1U thin servers with rich systems management and control.

AMD Opteron 64-bit technology enables the processor to run newly written 64-bit code and address larger amounts of memory, while still supporting full native 32-bit instruction sets. These new blade servers can run legacy 32-bit applications and can deliver improved performance for scientific and technical computing applications, and HPC and telecommunications applications.

The AMD Opteron LS42 for IBM BladeCenter is an enterprise-class, 2- or 4-socket blade that features the quad-core AMD Opteron Model 8384 processor at 2.7GHz with 2MB L2 cache with a 1GHz interprocessor HyperTransport bus. (1)

In measurements with SPEC CPU2006, the LS42 blade achieved a leadership SPECfp2006 score for a 2-socket blade, configured with the quad-core AMD Opteron Model 8384 processor (2.7GHz, 512KB L2 cache per core—2 processors/8 cores/8 threads), and achieved a leadership SPECfp2006 score for a 4-socket blade, configured with the quad-core AMD Opteron Model 8384 processor (2.7GHz, 512KB L2 cache per core—4 processors/16 cores/16 cores).

The LS42 achieved competitive scores for a 2- and 4-socket blade on the SPECint2006, SPECint_rate2006, SPECint_rate_base2006, SPECfp_rate2006, and SPECfp_rate_base2006.

SPEC CPU2006 Benchmark	IBM BladeCenter LS42 AMD Opteron Model 8384 (2 x 2.7GHz)	IBM BladeCenter LS42 AMD Opteron Model 8384 (4 x 2.7GHz)
SPECint2006	20.8	19.2
SPECint_rate2006	134	244
SPECint_rate_base2006	112	203
SPECfp2006	23.8	22.6
SPECfp_rate2006	117	211
SPECfp_rate_base2006	104	188

These scores are the first SPEC CPU2006 results published for the LS42 blade model using the quad-core AMD Opteron Model 8384 processor. These results were achieved using SUSE Linux® Enterprise Server 10 x64 SP2.

Results are current as of November 13, 2008. 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 LS42 blade model using the AMD Opteron Model 8384 quad-core processor at 2.7GHz is November 30, 2008.

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