

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

July 28, 2009 ... The IBM® BladeCenter® LS42 is an enterprise-class, 2- or 4-socket blade that features the six-core AMD Opteron™ Model 8435 processor at 2.6GHz with a 1GHz interprocessor HyperTransport bus. (1) The BladeCenter chassis and the IBM BladeCenter LS42 combine high-density design points with high performance and advanced server functions. With rich systems management and control, these dense products can double the processing power in a 7U, 8U, or 9U rack space, when compared with 1U thin servers.

In measurements with SPEC® CPU2006, the LS42 achieved leadership SPECint®2006 score for a 2-socket blade, configured with the AMD Opteron Model 8435 processor (2.6GHz, 512KB L2 cache per core and 6MB L3 cache per processor—2 processors/12 cores/12 threads). Scores on other members of the benchmark suite are competitive.

The LS42 achieved a leadership SPECint2006 score for a 4-socket blade, configured with the AMD Opteron Model 8435 processor (2.6GHz, 512KB L2 cache per core and 6MB L3 cache per processor—4 processors/24 cores/24 threads). Scores on other members of the benchmark suite are competitive.

These scores are the first SPEC CPU2006 results published for the LS42 blade model using the six-core AMD Opteron Model 8435 processor. These results were achieved using Red Hat® Enterprise Linux Server release 5.3 x64.

SPEC CPU2006 Benchmark	IBM BladeCenter LS42 AMD Opteron Model 8435 (2 x 2.6GHz)	IBM BladeCenter LS42 AMD Opteron Model 8435 (4 x 2.6GHz)
SPECint2006	20.7	21.1
SPECint_rate2006	204	393
SPECint_rate_base2006	160	308
SPECfp_rate2006	142	274
SPECfp_rate_base2006	128	250

Results are current as of July 28, 2009. 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 six-core AMD Opteron Model 8435 processor at 2.6GHz is September 4, 2009.

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