AMD Opteron LS41 for IBM BladeCenter delivers leadership performance on SPEC CPU2000

August 21, 2006 ... The AMD Opteron^{TM} LS41 for IBM® BladeCenter® is an enterprise-class, two- or four-socket blade that is ideal in applications such as ERP, data marts, data warehouses, databases and HPC clusters. The LS41 features the dual-core AMD Opteron 8000 series processors at speeds up to 2.6GHz with 1MB L2 cache per core with 1 GHz HyperTransport processor link. (1)

The BladeCenter chassis and the AMD Opteron LS41 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 rack space over 1U thin servers with rich systems management and control. And, AMD Opteron 64-bit technology provides a 32-bit mode to run both 32-bit and 64-bit applications side-by-side under a 64-bit operating system.

The LS41 is available with either standard- or low-power, full-performance Opteron processors. The standard AMD Opteron processors draw a maximum of 95 W. Specially manufactured low-power processors operate at 68 W or less without any performance tradeoffs. This savings in power at the processor level combined with the smarter power solution that BladeCenter delivers make these blades very attractive to clients who have limited power and cooling resources.

The AMD Opteron LS41 with a dual-core AMD Opteron 8218 (2.6GHz, 1MB L2 cache per core—4 processors/8 cores) demonstrated leadership SPECint_rate and SPECfp_rate performance for a blade using four processors. The LS41 achieved these scores using SUSE Linux® Enterprise Server 9 SP3. SPEC CPU2000 comprises the SPEC CINT2000 and SPEC CFP2000 benchmark suites.

The scores in the following table are the first SPEC CPU2000 results published for this processor model.

Benchmark	AMD Opteron LS41 – AMD Opteron 8218 Processor (2.6GHz, 2MB L2 Cache)
SPECint_rate2000 (4P)	156.0
SPECfp_rate2000 (4P)	165.0

Results are current as of August 21, 2006. 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 LS41 model using the dual-core AMD Opteron 8218 processor (2.6GHz, 1MB L2 cache per core) is October 6, 2006.