IBM posts leadership 4-processor blade score on SPECjbb2005 benchmark

November 13, 2008 ... IBM® BladeCenter® LS42 using IBM Java™6 Runtime Environment, achieved a leadership 4-processor blade result of 721,843 SPECjbb2005® business operations per second (SPECjbb2005 bops) and 180,461 SPECjbb2005 bops/JVM, running SPECjbb2005 (Java Business Benchmark), SPEC's benchmark for evaluating the performance of servers running typical Java applications.

The LS42 was configured with the AMD Opteron™ Model 8384 quad-core processor at 2.7GHz with 2MB L2 cache and 6MB L3 cache (4 chips/16 cores/4 cores per chip), 64GB of memory, one 36.4GB disk drive, and IBM Java 6 (using a 1875MB heap), and Microsoft® Windows® Server 2008 Enterprise x64 Edition. (1)

The LS42's score demonstrates the highest performance achieved to date by a 4-processor blade server, surpassing the score of 383,456 SPECjbb2005 bops of the Dell PowerEdge M905, which ran BEA JRockit® 6.0, and used the AMD Opteron Model 8356 quad-core processor at 2.3GHz (4 chips/16 cores/4 cores per chip). (2)

The LS42's score also handily beats—by 42%—the 508,240 SPECjbb2005 bops of the Dell PowerEdge R900, which ran BEA JRockit 6.0, and used the Intel® Xeon® Processor X7460 at 2.66GHz (4 chips/24 cores/6 cores per chip). (3)

BladeCenter LS42 blade servers, coupled with the BladeCenter chassis, deliver advanced application serving with performance, power efficiency, and scalability ideal for enterprise environments.

Results referenced are current as of November 13, 2008. The SPECjbb2005 results have been submitted to SPEC for review. Upon successful review, the result will be posted at www.spec.org, which contains a complete list of published SPECjbb2005 results.

(1) The LS42 model using the AMD Opteron Model 8384 quad-core processor is planned to be generally available on November 30, 2008.

(2) Dell PowerEdge M905: 383,456 SPECjbb2005 bops and 95,854 SPECjbb2005 bops/JVM, using four AMD Opteron 8356 quad-core processors at 2.3GHz (4 chips/16 cores/4 cores per chip), 32GB of memory, one 36GB disk drive, and BEA JRockit 6.0 P27.5.0. The comparison is based on Dell's best SPECjbb2005 score for a 4-processor blade server published at SPEC as of November 13, 2008.

(3) Dell PowerEdge R900: 508,240 SPECjbb2005 bops and 127,060 SPECjbb2005 bops/JVM, using four Intel Xeon Processor X7460 at 2.66GHz (4 chips/24 cores/6 cores per chip), 64GB of memory, two 36GB disk drives, and Oracle JRockit 6.0 P27.5.0. The comparison is based on Dell's best SPECjbb2005 score for a 4-processor server published at SPEC as of November 13, 2008.View all published results at www.spec.org/jbb2005/results/jbb2005.html