

IBM posts score for x3755 M3 server on SPECjbb2005 benchmark

x3755 M3 delivers leadership scores for an x86 server using AMD Opteron™ 12-core processors

August 31, 2010 ... IBM® has published SPECjbb®2005 benchmark results for the IBM System x® 3755 M3 server, a 4-socket system that incorporates the latest AMD Opteron™ 12-core processor technology. The x3755 M3 has delivered two- and four-processor scores that are leadership for a server using the AMD Opteron Model 6176 SE processor.

The x3755 M3, using IBM Java™6 Runtime Environment, achieved a score of 1,847,413 SPECjbb2005 business operations per second (SPECjbb2005 bops) and 230,927 SPECjbb2005 bops/JVM (total of eight JVMs), running SPECjbb2005 (Java Business Benchmark), the SPEC® benchmark for evaluating the performance of servers running typical Java applications..

The x3755 M3 was configured with four 12-core AMD Opteron processor Model 6176 SE (2.3GHz with 12MB each of L3 cache— 4 chips/48 cores/12 cores per chip), 128GB of memory, one 250GB disk drive, and ran IBM J9 Java 6 Runtime Environment (using a 1875MB heap) and Microsoft® Windows® Server 2008 R2 Enterprise Edition. (1)

Using two processors, the x3755 M3 achieved a score of 933,373 SPECjbb2005 business operations per second (SPECjbb2005 bops) and 233,343 SPECjbb2005 bops/JVM (total of four JVMs). The x3755 M3 was configured with two 12-core AMD Opteron processor Model 6176 SE (2.3GHz with 12MB each of L3 cache— 2 chips/24 cores/12 cores per chip), 64GB of memory, one 250GB disk drive, and ran IBM J9 Java 6 Runtime Environment (using a 1875MB heap) and Microsoft Windows Server 2008 R2 Enterprise Edition.

SPECjbb2005 Benchmark	IBM System x3755 M3 with Two 12-Core AMD Opteron Processors Model 6176 SE – 2.3GHz 64GB DDR3 RDIMM	IBM System x3755 M3 with Four 12-Core AMD Opteron Processors Model 6176 SE – 2.3GHz 128GB DDR3 RDIMM
SPECjbb2005 bops	933,373	1,847,413
SPECjbb2005 bops/JVM	233,343	230,927

The IBM System x3755 M3 server delivers the performance and capacity that growing workloads demand. Featuring up to four AMD Opteron 6000 series 12-core processors in a dense 2U rack-optimized platform, the x3755 M3 server delivers outstanding value for mid-sized applications.

Results referenced are current as of August 31, 2010. The SPECjbb2005 results have been submitted to SPEC for review. Upon successful review, the result will be posted at www.spec.org. Current SPECjbb2005 results can be found at <http://www.spec.org/jbb2005/results>.

(1) Planned availability for the IBM System x3755 M3 using the AMD Opteron 12-core processor Model 6176 SE is September 30, 2010.

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