IBM posts scores for x3755 M3 server on SPECjbb2005 benchmark

x3755 M3 delivers leadership scores for an x86 server using AMD Opteron processor Model 6180 SE

April 6, 2011 ... IBM® has published SPECjbb®2005 benchmark results for the IBM System x® 3755 M3 server, a four-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 6180 SE processor.

The x3755 M3, using IBM J9 Java™6 Runtime Environment, achieved a score of 1,944,294 SPECjbb2005 business operations per second (SPECjbb2005 bops) and 243,037 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 6180 SE (2.5GHz 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 978,232 SPECjbb2005 business operations per second (SPECjbb2005 bops) and 244,558 SPECjbb2005 bops/JVM (total of four JVMs). The x3755 M3 was configured with two 12-core AMD Opteron processor Model 6180 SE (2.5GHz 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	Two 12-Core AMD Opteron Processors Model 6180 SE – 2.5GHz 64GB DDR3L RDIMM	Four 12-Core AMD Opteron Processors Model 6180 SE – 2.5GHz 128GB DDR3L RDIMM
SPECjbb2005 bops	978,232	1,944,294
SPECjbb2005 bops/JVM	244,558	243,037

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 April 6, 2011. 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 6180 SE is May 6, 2011.