

## **IBM delivers leadership x86-based 2-processor performance on industry-standard SPECjbb2005 benchmark**

January 31, 2007 ... The IBM® System x™ 3650, using IBM Java™ 2 5.0 Runtime Environment, achieved 218,032 SPECjbb2005 business operations per second (SPECjbb2005 bops) and 109,016 SPECjbb2005 bops/JVM, demonstrating leadership performance for an x86-based 2-processor server running SPECjbb2005 (Java Business Benchmark), SPEC's benchmark for evaluating the performance of servers running typical Java applications.

The x3650 achieved these results using two Quad-Core Intel® Xeon® Processors X5355 at 2.66GHz with 8MB advanced transfer L2 cache and 1333MHz Front-Side Bus (2 chips/8 cores/4 cores per chip), 8GB of memory, one 36.4GB disk drive, and running IBM J9 J2RE 5.0 (32-bit) using a 1.5GB heap, and Microsoft® Windows® Server 2003 Enterprise Edition (64-bit). (1)

The x3650 server's score demonstrates the highest performance achieved to date by an x86-based 2-processor server, surpassing the scores of the similarly configured Dell PowerEdge 2950 and Fujitsu Siemens Computers PRIMERGY BX620 S3 systems, both of which ran BEA JRockit® 5.0. (2)

The score is also the best overall 8-core result, beating the 4-processor, 8-core HP ProLiant ML570 G4. (3)

Results referenced are current as of January 31, 2007. The SPECjbb2005 results have been submitted to SPEC for review. Upon successful review, the result will be posted at [www.spec.org](http://www.spec.org), which contains a complete list of published SPECjbb2005 results.

(1) Planned availability for this x3650 model is February 23, 2007.

(2) Fujitsu Siemens Computers PRIMERGY BX620 S3: 210,930 SPECjbb2005 bops and 105,465 SPECjbb2005 bops/JVM, using two Quad-Core Intel Xeon Processors X5355 at 2.66GHz, with shared 8MB L2 cache, and 1333MHz FSB (2 chips/8 cores/4 cores per chip), 16GB of memory, one 160GB disk drive, and BEA JRockit 5.0 using a 3.7GB heap.

Dell PowerEdge 2950: 210,065 SPECjbb2005 bops and 105,033 SPECjbb2005 bops/JVM, using two Quad-Core Intel Xeon Processors X5355 at 2.66GHz with shared 8MB L2 cache, and 1333MHz FSB (2 chips/8 cores/4 cores per chip), 16GB of memory, one 80GB disk drive, and BEA JRockit 5.0 using a 3.65GB heap.

(3) HP ProLiant ML570 G4: 217,334 SPECjbb2005 bops and 54,334 SPECjbb2005 bops/JVM, using four Dual-Core Intel Xeon Processors 7140M at 3.40GHz with 4MB L2 cache, and 800MHz FSB (4 chips/8 cores/2 cores per chip), 32GB of memory, one 36GB disk drive, and BEA JRockit 5.0 using a 3.7GB heap.

Statements of comparison made above are based on the best SPECjbb2005 scores for 2-processor systems using x86-based processors with 2 chips/8 cores/4 cores per chip. The 8-core claim is based on scores achieved by servers using a total of 8 cores. Competitive benchmark results stated above reflect results published on [www.spec.org](http://www.spec.org) as of January 31, 2007.

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