IBM sets world record for 2-way performance on industry-standard SPECjbb2000 benchmark

February 14, 2005 ... The IBM® @server® xSeries® 346, using IBM Java2 1.4.2 Runtime Environment, achieved 103,371 operations per second, demonstrating world-record performance for a 2-way server running SPECjbb2000 (Java Business Benchmark), SPEC's first benchmark for evaluating the performance of server-side Java.(1) This result marks the first time a 2-way server has achieved a score of 100,000 or more operations per second.

The x346 achieved this result using the latest Intel® Xeon™ 3.6GHz processor with an 800MHz front-side bus and a 2MB L2 cache. The x346 used two Intel Xeon 3.6GHz processors, 4GB of memory, one 73.4GB Ultra320 SCSI drive, and ran IBM Java2 1.4.2 Runtime Environment (32-bit) and Microsoft® Windows® Server 2003 Enterprise Edition (32-bit).

This new result is 21 percent higher than the x346 server's previous result of 85,221operations per second achieved using two 3.6GHz Intel Xeon processors, each with an 800MHz front-side bus and a 1MB L2 cache.(2)

Optimized for Intel Extended Memory 64 Technology (EM64T), x346 delivers mission-critical performance and reliability for data-dense application environments. Support for 64-bit extensions through Intel EM64T provides investment protection by supporting 32-bit and 64-bit applications and outstanding performance and reliability at the operating system and application levels.

The SPECjbb2000 result has 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 SPECjbb2000 results.

Results referenced are current as of February 14, 2005.

(1) SPECjbb2000 gives Java users an objective and representative benchmark for measuring a system's ability to run Java applications. SPECjbb2000 represents a middleware application written in Java. Hardware vendors can use the benchmark's results to analyze their platforms' scalability when running Java applications. Software vendors can evaluate the efficiency of their JVMs, JITs, garbage collectors and thread implementations.

(2) The x346 achieved 85,221 operations per second using two 3.6GHz Intel Xeon processors, each with an 800MHz front-side bus and a 1MB L2 cache; 4GB of memory; one 73.4GB Ultra320 SCSI drive; and IBM Java2 1.4.2 Runtime Environment and Microsoft Windows Server 2003 Enterprise Edition.