IBM delivers leadership 2-way performance on industry-standard SPECjbb2000 benchmark

October 27, 2004 ... The IBM® @server® xSeries® 346, using IBM Java2 1.4.2 Runtime Environment, achieved 85,221 operations per second, demonstrating leadership performance for a 2-way x86 server running SPECjbb2000 (Java Business Benchmark), SPEC's first benchmark for evaluating the performance of server-side Java. (1)

The x346 achieved this result 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.

The x346 server's score easily beats the score of 78,339 achieved by the Dell PowerEdge 2850, which used a similar 2-way configuration and ran BEA Weblogic JRockit 1.4.2_04 32-bit JVM and Microsoft Windows Server 2003 Enterprise Edition. (2)

The x346 delivers mission-critical performance and reliability for data-dense environments in a 2U server. New support for 64-bit extensions through Intel Extended Memory 64 Technology (EM64T) provides investment protection by supporting 32-bit and 64-bit applications, and increases performance and reliability at the operating system and application levels. Performance is also enhanced through improved front-side bus speed with dual 800MHz Intel Xeon Processors; support for up to 16GB DDR2 memory, improving memory speed; and faster I/O speed with support for PCI-Express, a new standard for PCI adapters.

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 October 27, 2004.

(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) Competitive benchmark results referenced reflect results published on www.spec.org as of October 27, 2004. Comparisons are based on the best SPECjbb2000 scores for these 2-way servers.