

IBM delivers leadership Intel processor-based performance on industry-standard SPECjbb2005 benchmark

October 11, 2005 ... The IBM® eServer™ xSeries® 346, using IBM 32-bit Runtime Environment for Windows®, Java™ 2 Technology Edition, Version 5.0, achieved 39,585 business operations per second (bops/sec) and 39,585 (bops/JVM), demonstrating leadership performance for a 2-socket Intel® processor-based server running SPECjbb2005 (Java Business Benchmark), SPEC's newest version of the benchmark for evaluating the performance of server-side Java.

The x346 achieved these results with two Dual-Core Intel Xeon™ processors at 2.8GHz with 2MB L2 cache per core, 8GB of memory, one 73.4GB Ultra320 SCSI disk drive, and running IBM 32-bit Runtime Environment for Windows, Java2 Technology Edition, Version 5.0, and Microsoft® Windows Server 2003 Enterprise Edition (32-bit).

Results referenced are current as of October 11, 2005. The SPECjbb2005 results have 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 SPECjbb2005 results.

About SPECjbb2005

On June 16, 2005, the Standard Performance Evaluation Corp. (SPEC) announced the release of SPECjbb2005, an updated benchmark for evaluating the performance of servers running typical Java business applications. The benchmark can be used across several versions of UNIX, Windows, Linux and other operating systems. The new benchmark is a major update to SPECjbb2000, and results from the two benchmarks cannot be compared.

SPECjbb2005 (Java Server Benchmark) is SPEC's benchmark for evaluating the performance of server-side Java. Like its predecessor, SPECjbb2000, SPECjbb2005 evaluates the performance of server-side Java by emulating a three-tier client/server system (with emphasis on the middle tier). The benchmark exercises the implementations of the JVM (Java Virtual Machine), JIT (Just-In-Time) compiler, garbage collection, threads and some aspects of the operating system. It also measures the performance of CPUs, caches, memory hierarchy and the scalability of shared memory processors (SMPs).

SPECjbb2005 provides a new enhanced workload, implemented in a more object-oriented manner to reflect how real-world applications are designed and introduces new features such as XML processing and BigDecimal computations to make the benchmark a more realistic reflection of today's applications.

SPECjbb2005 simulates a wholesale company with warehouses that serve different districts. It mimics customer operations such as placing orders or requesting the status of an existing order, and operations within the company, such as processing orders for delivery, entering customer payments, checking stock levels, and requesting a report on recent activity by a given customer.

The benchmark measures throughput of the underlying Java platform, which is the rate at which business operations are performed per second. It steps through increasing amounts of work, providing a graphical view of scalability. Performance is assessed by two metrics: *bops* (business operations per second), which measures overall throughput for all of the JVMs in a benchmark run, and *bops/JVM*, which measures the performance and scaling of a single JVM.

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