

## **IBM delivers outstanding performance for on demand business with SPECjAppServer2004 Standard benchmark**

July 8, 2004 ... IBM® has published a new score for the SPECjAppServer2004 Standard benchmark on an IBM eServer® xSeries® clustered solution that demonstrates excellent performance using SUSE Linux. This result demonstrates IBM's ongoing commitment to providing scalable J2EE-compliant middleware as part of a solution that exploits the strengths of its xSeries systems, IBM DB2® Universal Database, and IBM WebSphere® software.

The score of 900.32 JOPS@Standard was achieved with eight IBM eServer xSeries 335 systems used as Application Server Nodes. Each x335 used two Intel® 3.2GHz Xeon™ processors and ran WebSphere® 5.1 Application Server and SUSE Linux Enterprise Server 8 SP3. The x335 cluster used an IBM eServer xSeries 365 as the database server, which used four 3.0GHz Intel Xeon MP processors and ran IBM DB2 Universal Database 8.1 Enterprise Server FP6 and SUSE Linux Enterprise Server 8 SP3.

This is the first SPECjAppServer2004 result published in which every component—from the workload driver to the Web server, application server, message server, and database server—ran on Linux.

The SPECjAppServer2004 benchmark reflects the rigors of complex applications and high-volume transaction processing that are typical in today's customer environments. The test spans all major components of the application server, including Web serving, Enterprise Java™ Beans and messaging, and includes hardware, application server software, Java Virtual Machine software, database software and a system network.

IBM's submission involved more than 7,000 concurrent clients and produced more than 900 complex business transactions per second, which translates into more than 3.2 million transactions over the course of the benchmark's one-hour runtime. The IBM submission represents an IBM solution that brings together IBM eServer™ xSeries systems, middleware (WebSphere on Linux), and database (DB2 on Linux).

Click to see the diagram of the configuration used to achieve this result.

For all published SPECjAppServer2004 results, visit:  
[www.spec.org/jAppServer2004/results/jAppServer2004.html](http://www.spec.org/jAppServer2004/results/jAppServer2004.html)

Results referenced are current as of July 8, 2004.

(1) The following description is an excerpt from SPEC's April 2004 press release announcing SPECjAppServer2004: The Standard Performance Evaluation Corp. (SPEC) released SPECjAppServer2004, a new benchmark that measures the performance of Java 2 Enterprise Edition (J2EE) application servers. SPECjAppServer2004 is a completely new benchmark and not comparable to SPEC J2EE benchmarks released in late 2002. It includes a modified workload and features that stress more of the capabilities of J2EE 1.3 or later application servers. The intent of this benchmark is to provide a level playing field on which to test and compare the latest J2EE hardware and software platforms. Performance is measured in SPECjAppServer2004 by a metric called JOPS (jAppServer Operations Per Second). The metric is derived by adding the operations per second in the dealer domain to the work orders per second in the manufacturing domain.

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