

xSeries, WebSphere Application Server and DB2 team up to deliver outstanding SPECjAppServer2002 performance with the lowest price/performance

June 30, 2003 ... IBM® has published a new performance result with the SPECjAppServer2002 (1) benchmark, which is designed to give Java users an objective and representative benchmark for measuring a system's ability to run Java applications.

The IBM® @server™ xSeries® 360 with WebSphere® 5.0.1 Application Server and IBM DB2® Universal Database (UDB) 8.1 FP3 Workgroup Server Unlimited Edition delivered a leadership result of 448.12 TOPS@MultipleNode at price/performance of 647.52 US\$/TOPS@MultipleNode.

The results were achieved with a clustered configuration that used the x360 as Web application servers and as the database server. WebSphere 5.0.1 Application Server Network Deployment ran on two x360 clusters with each server using four Intel® 2.8GHz Xeon™ MP processors and running Microsoft® Windows® 2000 Server. The x360 database server used two 2.8GHz/2MB Xeon MP processors and ran DB2 UDB 8.1 FP3 Workgroup Server Unlimited Edition and Microsoft Windows 2000 Advanced Server.

This IBM solution delivered price/performance that is 40% and 56% better than the HP and Sun results of 1089.84 US\$/TOPS@MultipleNode and 1484 US\$/TOPS@MultipleNode, respectively, each of which used BEA WebLogic and Oracle.(2) The performance and price/performance results demonstrate that DB2 running on the x360 database server with only two processors can handle a high volume of transactions and more than meet the requirements of many small and medium-size businesses.

Results referenced are current as of June 30, 2003.

(1) SPECjAppServer2002 is an industry-standard benchmark designed to measure the performance of J2EE application servers. SPECjAppServer2002 mainly tests the Enterprise JavaBeans (EJB) container in a J2EE 1.3 compatible server. It does not exercise all components of J2EE 1.3. The most significant influences on the performance of the benchmark are the hardware configuration, the J2EE software, the JVM software, and the database software. The benchmark was designed to stress the J2EE server. However, as this is a solutions based benchmark other components (such as the database server) are stressed as well. The benchmark workload emulates a manufacturing, supply chain management (SCM) and order/inventory system. SPECjAppServer2002 expresses performance in terms of two metrics:

- **TOPS** (Total Operations Per Second) which is the number of order transactions plus the number of manufacturing work orders divided by the measurement period in seconds.
- **Price/TOPS** which is the price of the System Under Test (including hardware, software, and support) divided by the TOPS.

(2) Competitive numbers shown reflect results published on www.spec.org as of June 30, 2003. For the latest SPECjAppServer2002 results, visit www.spec.org.

IBM, the e-business logo, xSeries, DB2, DB2 Universal Database, and WebSphere are trademarks or registered trademarks of International Business Machines Corporation.

Intel and Xeon are trademarks or registered trademarks of Intel Corporation.

Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries.

SPEC and SPECjApp are trademarks or registered trademarks of the Standard Performance Evaluation Corporation (SPEC).

All other company/product names and service marks may be trademarks or registered trademarks of their respective companies.