# Performance Brief

## *IBM @server xSeries 440 server and DB2 achieve leadership performance in SAP SD Standard Application Benchmarks*

**March 2002**

*In recent measurements, the xSeries 440 server, announced worldwide March 12, achieved leadership performance results in the SAP® R/3® Centralized Sales and Distribution (SAP SD) Standard Application benchmark.*

The xSeries 440 server demonstrated leadership performance and scalability for Intel-based servers, achieving new levels of performance for 4- and 8-way servers using the latest Intel® processor technology: the Xeon™ MP.

### The Benchmark Environment

#### xSeries 440 with four processors

The xSeries 440 4-way server achieved 312 SD benchmark users with 1.98 seconds average dialog response time on DB2® Universal Database™ (UDB) Version 7.2 and Microsoft® Windows® 2000 Advanced Server.

The hardware configuration for the 312 SD benchmark user run consisted of one central server, an xSeries 440 server with four 1.6GHz Xeon MP processors with 1MB L3 cache, 8GB of main memory, and 200GB(1) of total disk space running Windows 2000 Advanced Server, DB2 UDB Version 7.2 and the SAP SD benchmark, running SAP R/3 Release 4.6C. The measured throughput was 94,000 dialog steps per hour (or 31,330 fully processed order line items per hour), with an average CPU utilization of 97 percent for the central server.

This benchmark fully complies with the SAP benchmark regulations and has been audited and certified by SAP. Details can be obtained from IBM and SAP AG. The benchmark was performed at Research Triangle Park, North Carolina, USA, by IBM engineers.

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|---|---|
| **Certification Number** | 2002013 |
| **Hardware Partner** | International Business Machines Corp. |
| **Contact Name/e-Mail Address** | Param Singh / paramjit @ us.ibm.com |
| **R/3 Release** | 4.6C |
| **DBMS Version** | DB2 UDB Version 7.2 |
| **Date** | March 11, 2002 |
| **Location** | Research Triangle Park, NC, USA |
| **Lead Engineers** | IBM: Param Singh |
| **Published** | Yes |

**xSeries 440 with eight processors**

The xSeries 440 8-way server achieved 520 SD benchmark users with 1.85 seconds average dialog response time on DB2 UDB Version 7.2 and Microsoft Windows 2000 Advanced Server.

The hardware configuration for the 520 SD benchmark user run consisted of one central server, an xSeries 440 server with eight 1.6GHz Xeon MP processors with 1MB L3 cache, 8GB of main memory, and 200GB of total disk space running Windows 2000 Advanced Server, DB2 UDB Version 7.2 and the SAP SD benchmark, running SAP R/3 Release 4.6C. The measured throughput was 158,000 dialog steps per hour (or 52,670 fully processed order line items per hour), with an average CPU utilization of 99 percent for the central server.

This benchmark fully complies with the SAP benchmark regulations and has been audited and certified by SAP. Details can be obtained from IBM and SAP AG. The benchmark was performed at Research Triangle Park, North Carolina, USA, by IBM engineers.

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## For More Information

Visit **ibm.com**/pc/ww/eserver/xseries for information about IBM products and services.

For information about SAP AG benchmark results, visit www.sap.com/benchmark.

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## Notes

(1) When referring to hard disk capacities, GB, or gigabyte, means one billion bytes. Total user-accessible capacity may be less.

## Trademarks



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