



Performance Brief

IBM @server xSeries servers achieve leadership performance with SAP® R/3® SD Benchmark

March 2001

In recent measurements conducted with the SAP R/3 Centralized SD benchmark, the new xSeries 370 and xSeries 250 servers, announced worldwide March 22, achieved leadership performance results.

xSeries 370

The IBM @server xSeries 370 demonstrated leadership performance in standard benchmark testing, running the SAP R/3 Centralized SD (Sales and Distribution) Standard Application Benchmark on an eight-way, Intel-based server. The xSeries 370 server achieved 375 SD Benchmark users with 1.97 seconds average dialog response time on DB2® UDB Version 7.1 and Microsoft® Windows® 2000 Advanced Server. The measured throughput of 113,000 dialog steps per hour represents 37,670 fully processed order line items per hour. This is a new record for eight-way results using the latest Intel® Pentium® III Xeon® processor.

The Benchmark Environment

The hardware configuration for the 375 SD benchmark user run consisted of one central server, an xSeries 370 server with eight 900MHz Pentium III Xeon processors with 2MB L2 cache, 8GB of main memory, and 110GB of total disk space running Windows 2000 Advanced Server, DB2 UDB Version 7.1 and the R/3 SD Benchmark, Release 4.6 C. The measured throughput was 113,000 dialog steps 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 RTP, North Carolina, USA, by IBM engineers.

Certification Number	2001010
Hardware Partner	International Business Machines Corporation
Contact Name/e-Mail Address	Param Singh / paramjit @ us.ibm.com
R/3 Release	4.6 C
DBMS Version	DB2 UDB Version 7.1
Date	March 14, 2001
Location	RTP, NC, USA
Lead Engineers	IBM: Param Singh
Published	Yes

xSeries 250

The new xSeries 250 demonstrated leadership performance in standard benchmark testing, running the SAP R/3 Centralized SD (Sales and Distribution) Benchmark on a four-way, Intel-based server. The xSeries 250 server achieved 250 SD Benchmark users with 1.80 seconds average dialog response time on DB2 UDB Version 7.1 and Windows 2000 Advanced Server. The measured throughput of 77,084 dialog steps per hour represents 25,694 fully processed order line items per hour. This is a new record for four-way results using the latest Intel Pentium III Xeon processor.

The Benchmark Environment

The hardware configuration for the 250 SD benchmark user run consisted of one central server, an xSeries 220 server with four 900MHz Pentium III Xeon processors with 2MB L2 cache, 4GB of main memory, and 144GB of total disk space running Windows 2000 Advanced Server, DB2 UDB Version 7.1 and the R/3 SD Benchmark, Release 4.6 C. The measured throughput was 77,084 dialog steps per hour with an average CPU utilization of 96 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 IBM's Toronto Laboratory in Toronto, Canada, by IBM engineers.

Certification Number	2001-
Hardware Partner	International Business Machines Corporation
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R/3 Release	4.6 C
DBMS Version	DB2 UDB Version 7.1
Date	March 14, 2001
Location	Toronto, Canada
Lead Engineers	IBM: Ronen Grosman, Christine Zhong
Published	Yes

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Notes

(1) MHz only measures microprocessor internal clock speed, not application performance. Many factors affect application performance.

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

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