



Performance Brief

IBM® @server™ xSeries™ 450, IBM DB2® Universal Database, and IBM TotalStorage® FASTT700 achieve leadership performance on 2-tier SAP® Standard Application Sales and Distribution (SD) Benchmark

April 2003

In recent measurements, the xSeries 450 server achieved leadership performance results for a 1.0GHz 64-bit Intel® Itanium 2 processor-based server running Microsoft® Windows® Server 2003 on the two-tier SAP Standard Application SD Benchmark. (1)

The Benchmark Environment

The x450 4-way server achieved 515 SAP Standard Application Sales and Distribution (SD) Benchmark users with 1.96 seconds average dialog response time on DB2 UDB Version 8.1 and Microsoft Windows Server 2003 Enterprise Server.

The hardware configuration for the 515 SAP SD Benchmark user run consisted of one central server, an x450 server with four 1.0GHz Intel Itanium 2 processor with 3MB L3 cache, 16GB of main memory, and 380GB of Fibre-attached storage using the IBM TotalStorage FASTT700 controller, and running Microsoft Windows Server 2003, IBM DB2 UDB 8.1 and the SAP Standard Application SD Benchmark, running SAP R/3® Release 4.6C. The measured throughput was 155,000 dialog steps per hour (or 51,670 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 Council regulations and has been audited and certified by SAP AG. Additional details can be obtained from IBM and SAP. The benchmark was performed at Research Triangle Park, North Carolina, USA, by IBM engineers.

Certification Number	2003027
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 8.1
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Location	Research Triangle Park, NC, USA
Lead Engineers	IBM: Param Singh
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About DB2 Universal Database

DB2 UDB is a proven transactional, relational database that supports OLTP, data warehousing, content management, and information integration all with just one product. DB2 UDB sets the pace for data warehousing applications by integrating text, video, image, audio, XML, and spatial data, thereby greatly simplifying information management and retrieval. And, your DB2 UDB database grows as you grow -- scaling from the smallest data marts to the largest multi-terabyte data warehouse.

About TotalStorage FAStT

IBM TotalStorage Fibre Array Storage Technology (FAStT) servers are full-fibre, 2Gbs, SAN-ready disk systems that support multiple operating systems simultaneously. The FAStT700 is designed for high-performance computing environments and provides the building blocks for networked storage. In addition to excellent performance, FAStT700 storage systems comes as a rack-mountable, fully redundant modular units that can scale up to 32.8 terabytes. FAStT systems can be configured to optimize performance and provide high data availability at the same time. Multiple FAStT systems can be managed from a single console anywhere in the world. The FAStT700's premium features include remote mirroring and point in time FlashCopy for business continuance.

For More Information

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

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

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(1) Planned availability for the x450 server is May 9, 2003.

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