

IBM delivers leadership performance and price/performance in industry-standard benchmarks with new xSeries server

March 12, 2002 ... IBM® today expanded the award-winning @server xSeries™ product line with the announcement of new models featuring the Intel® Xeon™ MP processor.

Benchmark Leader

IBM has proved its leadership in the high-end Intel server market by delivering superior results on a wide range of industry-standard benchmarks:

- Number-one performance for a 4-way server on the TPC-C online transaction processing benchmark: outperforming the Compaq ProLiant DL580 by more than 40% (1)
- Number-one performance for a 4-way server on the TPC-W e-commerce benchmark: outperforming the Dell PowerEdge 6400 by 24% (2)
- Number-one performance and price/performance for a 4-way server on the 100GB TPC-H business intelligence benchmark (3)
- Number-one performance for 4- and 8-way servers on SAP SD Standard Application Benchmarks
- Number-one performance for a 4-way server on Microsoft® Exchange 2000 benchmark.

New levels of performance for a 4-way server on TPC-C online transaction processing benchmark

The xSeries 440 achieved performance of 55,138.6 tpmC and price/performance of \$6.98/tpmC. The total solution is available September 10, 2002. This result sets a new TPC-C performance record for a 4-way server. The xSeries 440 server used four Intel 1.6GHz Xeon MP processors and ran Microsoft SQL Server 2000 and Microsoft Windows® 2000 Datacenter Server.

Powerful performance for e-commerce computing

The xSeries 440 database server, together with the xSeries 330 (functioning as Web, image and Web cache servers), delivered an industry-leading performance result of 9,666 WIPS @ 10,000-item database and price/performance of \$33.92/WIPS@10,000, running the TPC-W benchmark. The total solution availability is September 10, 2002. This new IBM result ranks first in the TPC Top 10 TPC-W Results by Performance for a 10,000-item database. The xSeries 440 database server was configured with four Xeon MP 1.6GHz/1MB processors and 4GB of memory, and ran Microsoft SQL Server 2000 and Windows 2000 Advanced Server.

Leading performance and price/performance for business intelligence applications

The new xSeries 440 set a new world record for performance and price/performance for a 4-way system running the TPC-H benchmark, which models a decision-support system for business intelligence applications. The xSeries 440 achieved a Composite Query-per-Hour Metric of 1,486 QphH @ 100GB and price/performance of \$122/QphH @ 100GB with an availability date of September 10, 2002. The price/performance result is the best ever for any TPC-H configuration. The xSeries 440 was configured with four 1.6GHz/1MB Xeon MP processors and ran Microsoft SQL Server 2000 and Windows 2000 Advanced Server.

Leadership performance and outstanding scalability for a 4- and 8-way server running the SAP SD 2-tier benchmark

Running the SAP® R/3® Centralized SD (Sales and Distribution) Standard Application Benchmark on 4- and 8-way configurations, the xSeries 440 server achieved 312 and 520 SD benchmark users, respectively. Each configuration used the 1.6GHz Xeon MP processor and ran DB2® Universal Database™ Version 7.2 and Microsoft Windows 2000 Advanced Server.

Outstanding performance for e-mail environments

The xSeries 440 server, configured with four 1.6GHz Xeon MP processors, supported 11,300 users running the Microsoft Exchange 2000 MAPI messaging benchmark, surpassing the performance achieved by other similarly configured servers.

The xSeries 360 server, configured with four 1.6GHz Xeon MP processors, supported 10,200 users running the Microsoft Exchange 2000 MAPI messaging benchmark.

xSeries 360: Top Ten TPC-C by Price/Performance

Announced worldwide in November 2001, the xSeries 360 server has demonstrated its ability as a price/performer. This server achieved 23,027.66 tpmC and price/performance of \$4.41/tpmC, with total solution availability of September 10, 2002. The server used two 1.6GHz Xeon MP processors and ran Microsoft SQL Server 2000 and Windows 2000 Server.

More information on the TPC-C benchmark, along with all TPC results, can be found at the Transaction Processing Performance Council Web site at <http://www.tpc.org>.

For the latest SAP results, visit <http://www.sap.com/benchmarks>.

Specific information about IBM and xSeries products, services and support is located at ibm.com/pc/ww/eserver/xseries.

Results referenced are current as of March 12, 2002.

(1) IBM eServer xSeries 440, 55,138.6 tpmC, \$6.98/tpmC, available September 10, 2002.; Compaq ProLiant DL580, 39,158.09 tpmC, \$7.95/tpmC, available October 15, 2001.

(2) IBM eServer xSeries 440, 9666.0 WIPS@10,000 \$33.92/WIPS@10,000, available September 10, 2002; Dell PowerEdge 6400, 7783.3 WIPS@10,000, \$24.50/WIPS@10,000, available January 28, 2002.

(3) IBM eServer xSeries 440, 1486 QphH@100GB, \$122/QphH@100GB, available September 10, 2002;

For additional information visit www.tpc.org.

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