

IBM publishes world-record performance result on TPC-E benchmark

IBM® System x™ 3950 M2 delivers highest performance ever achieved on the TPC-E benchmark

July 2, 2008 ... IBM has published the highest result ever achieved on the TPC-E benchmark. The IBM System x 3950 M2 server achieved 1,250.00 tpsE (transactions per second E) at \$1,311.26 USD / tpsE. (1) The tpsE is the total number of trade-result transactions *per second* that the server can sustain over a period of time.

This latest TPC-E result demonstrates the leadership performance and scalability that is possible with the combined power of IBM's exclusive fourth-generation X-Architecture®, Intel® Xeon® quad-core technology, and the latest advances in Microsoft® SQL Server 2008.

The x3950 M2's 16-processor results compare very favorably with NEC's 32-processor results of 1,126.49 tpsE and \$2,771.79 USD /tpsE—10% higher performance with half the processors and less than half of the price per transaction. (2)

Also, compared to the previously published result of 804.00 tpsE achieved by the x3950 M2 using 8 processors, this new result demonstrates 55% scalability from 8 to 16 processors. (3)

The x3950 M2's 1,250.00 tpsE result was achieved using Microsoft SQL Server 2008 and Microsoft Windows® Server 2008 Datacenter x64 Edition. The x3950 M2 server was configured with the Quad-Core Intel Xeon Processor X7350 at 2.93GHz with 2 x 4MB L2 cache per processor (16 processors/64 cores/64 threads). The x3950 M2 accessed the SQL Server database via the IBM System Storage™ DS4800 Fibre Channel storage subsystem and QLogic 8Gb Fibre Channel adapters.

The business model for TPC-E is that of a brokerage firm, for which the database schema, data population, transactions, and implementation rules have been designed to be broadly representative of modern OLTP systems. The TPC-E benchmark, launched by the Transaction Processing Performance Council in March 2007, is designed to enable clients to more objectively measure and compare performance and price of various OLTP systems.

Results referenced are current as of July 2, 2008. To view all TPC results, visit www.tpc.org.

(1) IBM System x3950 M2 with the Quad-Core Intel Xeon Processor X7350 2.93GHz (16 processors/64 cores/64 threads), 1,250.00 tpsE, \$1,311.26 USD / tpsE, total solution availability of August 30, 2008.

(2) NEC Express5800/1320Xf (32 SMP) with Dual-Core Intel Itanium Processor 9150N 1.6GHz (32 processors/64 cores/64 threads), 1,126.49 tpsE, \$2,771.79 USD / tpsE, total solution availability of August 30, 2008.

(3) IBM System x3950 M2 with the Quad-Core Intel Xeon Processor X7350 2.93GHz (8 processors/32 cores/32 threads), 804.00 tpsE, \$1,450.05 USD / tpsE, total solution availability of August 30, 2008.

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