

IBM publishes world-record 2-processor performance and price/performance results on TPC-E benchmark

IBM® System x® 3650 M2 delivers highest 2-processor performance and overall best price/performance on TPC-E

July 14, 2009 ... IBM has published the highest result ever achieved on the TPC-E benchmark by a server using only two processors. The new-generation IBM System x3650 M2 server achieved 817.15 tpsE at \$319.15 USD / tpsE—the lowest price per transaction to date. (1)

This latest TPC-E result demonstrates the leadership performance that is possible with the combined power of IBM's new, innovative server technology and the new-generation Intel® Xeon® 5500 series processor technology.

The x3650 M2 delivered more than 6% better performance and more than 4% lower cost per transaction than the 2-processor Dell PowerEdge T610. (2) In fact, the x3650 M2's \$319.15 USD/tpsE is the lowest price per transaction achieved to date on the TPC-E benchmark.

This level of performance is easily more than twice that of the highest-scoring, previous-generation 2-processor systems. Along with its groundbreaking performance, the x3650 M2's price per tpsE demonstrates a substantial price/performance improvement of nearly 40%. (3)

The x3650 M2's TPC-E result was achieved using Microsoft® SQL Server 2008 Enterprise x64 Edition and Microsoft Windows® Server 2008 Enterprise x64 Edition. The x3650 M2 server was configured with the Quad-Core Intel Xeon Processor X5570 at 2.93GHz with 256KB L2 cache per core and 8MB L3 cache per processor (2 processors/8 cores/16 threads).

The IBM System x3650 M2 is a 2U, 2-processor rack server solution built on innovative IBM X-Architecture® leveraging Intel Quick Path Interconnect (QPI) and Turbo Boost technology. The x3650 M2 delivers energy-efficient, high performance for demanding mission-critical workloads needing a highly available rack-optimized solution for physical, virtual and I/O-intensive environments, such as Collaboration, Database, eBusiness, and SAP deployments.

The TPC Benchmark E (TPC-E) is an On-Line Transaction Processing (OLTP) workload that uses a mixture of read-only and update-intensive transactions that simulate the activities of complex OLTP application environments. The tpsE is the total number of trade-result transactions *per second* that the server can sustain over a period of time. 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 14, 2009. To view all TPC results, visit www.tpc.org.

(1) Total solution availability is July 31, 2009.

(2) Dell PowerEdge T610 with the Quad-Core Intel Xeon Processor X5570 at 2.93GHz (2 processors/8 cores/16 threads), 766.47 tpsE, \$334.09 USD/tpsE, total solution availability of 3/30/09.

(3) Fujitsu Siemens PRIMERGY TX300 S4 with Intel Quad-Core Xeon X5460 3.16GHz (2 processors/8 cores/8 threads), 317.45 tpsE, \$523.49 USD/tpsE, total solution availability of 8/30/2008.

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