IBM publishes TPC-E performance result for new-generation System x3650 M2

IBM® System x® 3650 M2 delivers excellent 2-processor performance and price/performance on TPC-E benchmark

March 30, 2009 ... IBM has published new benchmark results for the IBM System x3650 M2, which uses the new-generation Intel® Xeon® 5500 series processor technology. The x3650 M2 server achieved 798.00 tpsE at $378.63 USD / tpsE. (1)

This latest TPC-E result demonstrates the outstanding 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 double the performance of the highest-scoring, previous-generation 2-processor systems. And along with groundbreaking performance, there is a substantial price/performance improvement of more than 25%. (2) Compared to other systems with 16 hardware threads, such as the 4-processor Dell PowerEdge R905, the x3650 M2 delivered 25% higher performance—with 5% lower price/performance. (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 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 March 30, 2009. To view all TPC results, visit www.tpc.org.

(1) Total solution availability is June 30, 2009.

(2) 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.

(3) Dell PowerEdge R905 with AMD Quad-Core Opteron 8384 2.7GHz (4 processors/16 cores/16 threads), 635.43 tpsE, $403.87 USD/tpsE, total solution availability of 2/19/09.