IBM uses Samsung memory to post best 2-processor TPC-E result

IBM System x3650 M4 sets new record for 2-processor server performance on TPC-E

September 10, 2013 ... IBM has published a benchmark result that sets a new record for 2-processor performance on the TPC-E benchmark, which is designed to enable clients to more objectively measure and compare the performance and price of OLTP systems. This result highlights the performance gains seen when utilizing Intel's latest processors along with next-generation Samsung memory.

The IBM System x3650 M4 server achieved the following score (1):

- 2,590.93 tpsE (transactions per second E) at $150.00 USD / tpsE

This result is faster than all the other currently published TPC-E results for 2-processor servers, and represents a significant performance benefit compared to systems using previous-generation processors and memory.

The x3650 M4 achieved this result using Microsoft® SQL Server 2012 Enterprise Edition and Microsoft Windows® Server 2008 R2 Enterprise Edition SP1. The x3650 M4 was configured with two Intel Xeon E5-2697 v2 processors at 2.7 GHz with 30 MB L3 cache per processor (2 processors/24 cores/48 threads), 512 GB of Samsung's DDR3 LR-DIMM memory (2) and solid state drive (SSD) storage, which can enable faster database access.

The IBM System x3650 M4 is a flagship, two-socket, 2U rack server, designed for maximum performance and uptime for business-critical applications and cloud deployments. The x3650 M4 features an energy-smart design with powerful high-performance Intel Xeon processors up to 12 cores each, a large capacity of high-performing memory, innovative storage and connectivity options, and superior management features. Up to any IT challenge, the versatile x3650 M4 blends the ultimate in performance, uptime, and I/O flexibility, with rock-solid reliability.

Results referenced are current as of September 10, 2013. To view all TPC results, visit www.tpc.org. See the details for this result: http://www.tpc.org/4066.

(1) The total solution availability for this TPC-E benchmark result is November 29, 2013.

(2) The IBM memory option used in the benchmark is Samsung's Green DDR3 32GB LR-DIMM.