PERFORMANCE BENCHMARK RESULT

Lenovo posts world record TPC-E benchmark performance result

System x3950 X6 achieves best-ever performance on TPC-E

December 2, 2014 ... Lenovo® has published the best performance result ever on the TPC-E™ benchmark. This new result showcases the capability of the System x3950 X6 from Lenovo, based on the latest Intel® Xeon® E7 processor technology and running Microsoft® SQL Server® 2014.

The TPC-E benchmark is designed to enable clients to more objectively measure and compare the performance and price of various OLTP systems.

The System x3950 X6 server achieved the following score:

- **9,145.01 tpsE**™ (transactions per second E) at **$192.38 USD / tpsE**. (1)

This score is the best 8 way performance and price performance in the industry, and is 67% faster than previous-generation 8-processor systems. (2)

The x3950 X6 achieved this record level of OLTP performance using Microsoft SQL Server 2014 Enterprise Edition and Microsoft Windows Server® 2012 Standard Edition. The x3950 X6 was configured with eight Intel Xeon E7-8890 v2 processors at 2.80 GHz (8 processors/120 cores/240 threads) and 4 TB of memory.

The System x3950 X6 is an 8-socket rack server designed for maximum performance and uptime for business-critical applications and databases.

With system support for up to 120 CPU cores, 12TB of system memory, and 81TB of flash storage, the 3950 X6 is designed to deliver leadership performance and scalability to power traditional databases as well as new in memory database and analytic solutions. The scalable design enables customers to virtualize both high performance databases and applications on the same server to deliver leadership solution performance.

To enhance performance, the x3950 has a unique modular design to deliver price/performance optimized, solutions. The modular design supports simple CPU upgrades for customers to maintain leadership performance over time as technology changes, and to maximize their solution investment without the disruption of replacing a server. (3)

X6 platforms, with a history of over 15 years of EXA investment and innovation, are designed to help reduce overall enterprise solution cost while delivering breakthrough performance and availability.

Results referenced are current as of December 2, 2014. To view all TPC results, visit www.tpc.org.

(1) The total solution availability for this TPC-E benchmark result is November 25, 2014. See the details for this result here: http://www.tpc.org/4071

(2) The System x3850 X5 measured 5457.20 tpsE at $249.58 USD / tpsE using eight Intel Xeon E7-8870 processors at 2.40GHz (8 processors/80 cores/160 threads), Microsoft SQL Server 2012 Enterprise Edition, and Microsoft Windows Server 2012 Standard Edition. Total solution availability of March 8, 2013. Result details are at: http://www.tpc.org/4063

(3) When a newer generation of processor and memory technology becomes available, Compute Books can be replaced with newer ones. (All Compute Books must use matching technology.)