

IBM posts best ever TPC-E benchmark performance result

IBM System x3850 X5 achieves world-record performance on TPC-E

March 18, 2013 ... IBM has published the best performance result ever on the TPC-E benchmark. This new result showcases the ability of IBM's exclusive eX5, the fifth-generation X-Architecture®, and the Intel® Xeon® E7 processor technology to continue to deliver industry-leading performance results on System x® servers. The TPC-E benchmark is designed to enable clients to more objectively measure and compare the performance and price of various OLTP systems.

The IBM System x3850 X5 server achieved **5,457.20 tpsE** (transactions per second E) at **\$249.58 USD / tpsE**. (1) This result is 18% faster than the next-best result-- at 44% better price/performance. (2)

The x3850 X5 achieved this new level of OLTP performance using Microsoft® SQL Server 2012 Enterprise Edition and Microsoft Windows® Server 2012 Standard Edition. The x3850 X5 was configured with eight Intel Xeon E7-8870 processors at 2.40GHz with 30MB shared L3 cache per processor (8 processors/80 cores/160 threads), and 4096GB of memory.

The x3850 X5 server leverages fifth-generation IBM Enterprise X-Architecture®, delivering innovation with enhanced reliability and availability features to enable optimal performance for databases, enterprise applications, and virtualized environments. The x3850 X5 is a versatile 4-socket, 4U rack-optimized scalable enterprise server that supports up to 2TB of memory. In addition to higher levels of function than its predecessors, the x3850 X5 offers up to 8-socket (80-core) SMP operations with powerful 6-, 8- and 10-core Intel Xeon MP processors and up to 6TB of system memory in an 8-socket (80-core) complex with the optional IBM MAX5 for System x. The MAX5 is a scalable, 1U, memory expansion drawer that provides an additional 32 DIMM slots with a memory controller for added performance and a node controller for x3850 scalability.

Results referenced are current as of March 18, 2013. To view all TPC results, visit www.tpc.org. See the details for this result: http://www.tpc.org/tpce/results/tpce_last_ten_results.asp

(1) The total solution availability for this TPC-E benchmark result is March 8, 2013.

(2) NEC Express5800/A1080a-E with eight Intel Xeon E7-8870 processors at 2.40GHz (8 processors/80 cores/160 threads), Microsoft SQL Server 2012 Enterprise Edition, Microsoft Windows Server 2008 R2 Enterprise Edition with SP1; 4,614.22 tpsE at \$450.18 USD / tpsE, total solution availability of April 2, 2012.

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