

IBM posts best 2-processor performance ever published on TPC-E benchmark

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

March 6, 2012 ... 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.

The IBM System x3650 M4 server achieved 1,863.23 tpsE (transactions per second E) at \$207.85 USD / tpsE. (1) 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. For example, the x3650 M4's result is more than 45% faster than the HP ProLiant DL380 G7 server's result. (2)

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® E5-2690 processors at 2.9GHz with 20MB L3 cache per processor (2 processors/16 cores/32 threads), 512GB of memory (3) and solid state drive (SSD) storage, which can enable faster database access.

The IBM System x3650 M4 is the IBM flagship, 2-socket, 2U rack server optimized for performance and uptime for business-critical applications and cloud deployments. The flexible x3650 M4 features the following:

- Intel Xeon processors with up to 8 cores and up to 768GB of memory capacity for virtualization and other memory-intensive solutions.
- Optional slotless 10GbE NIC with IBM Virtual Fabric that delivers high performance for bandwidth-heavy workloads.
- Available with the IBM exclusive high-performance solid state drive technology.

Results referenced are current as of March 6, 2012. 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 May 31, 2012.

(2) HP ProLiant DL380 G7 Server with two Intel Xeon X5690 processors at 3.46GHz (2 processors/12 cores/24 threads), Microsoft SQL Server 2008 R2 Enterprise Edition, Microsoft Windows Server 2008 R2 Enterprise Edition; 1,284.14 tpsE at \$250.00 USD / tpsE, total solution availability of May 4, 2011.

(3) The IBM memory option used in the benchmark is Samsung's Green DDR3 32GB LRDIMM.

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