

IBM posts world-record four-processor result on Windows on two-tier SAP SD standard application benchmark

IBM System x3850 X5 and DB2 9.7 deliver world-record four-processor result on Windows on two-tier SAP SD standard application benchmark

April 6, 2011 ... IBM® today announced a world-leadership, four-processor result on Windows® on the two-tier SAP® Sales and Distribution (SD) standard application benchmark. The result of 14,000 SAP SD benchmark users was achieved on the IBM System x® 3850 X5, configured with four Intel® Xeon® E7-4870 processors, and using the IBM System Storage™ DS4800 and running IBM DB2® 9.7 and SAP enhancement package 4 for the SAP ERP application Release 6.0.

The x3850 X5 and DB2 9.7 have achieved the best-ever, four-processor result on Windows on the two-tier SAP SD standard application benchmark. The x3850 X5 achieved 14,000 SAP SD benchmark users with 0.92 seconds average dialog response time, 76,900 SAPS, measured throughput of 4,614,000 dialog steps per hour (or 1,538,000 fully processed line items per hour), and an average CPU utilization of 99 percent for the central server. (1)

The x3850 X5's result raises the bar for four-processor results on Windows. This result beats—by more than 33 percent—the x3850 X5's previous four-processor result on Windows. This result also surpasses HP's recently published result using four Intel Xeon E7-4870 processors. (2)

The x3850 X5 was configured with four Intel Xeon E7-4870 processors at 2.40GHz with 30MB shared L3 cache per processor (4 processors/40 cores/80 threads), 512GB of memory, 64-bit DB2 9.7, Microsoft® Windows® Server 2008 R2 Enterprise Edition, and SAP ERP 6.0. The server accessed the DB2 9.7 database on the storage managed by an IBM System Storage DS4800 disk system. (3)

Results referenced are current as of April 5, 2011. For the latest SAP benchmark results, visit: <http://www.sap.com/benchmark>.

(1) This benchmark fully complies with the SAP Benchmark Council regulations and has been audited and certified by SAP AG (certification number 2011015). Details can be obtained from IBM and SAP. The benchmark was performed at IBM in Research Triangle Park, NC, USA, by IBM engineers.

(2) Statement of comparison is based on highest-performing system using four Intel Xeon processors and running Windows and the SAP enhancement package 4 for SAP ERP 6.0. Results referenced are current as of April 5, 2011.

IBM System x3850 X5 on the two-tier SAP SD standard application benchmark: 4 processors/32 cores/64 threads, Intel Xeon Processor X7560, 2.26GHz, 256KB L2 cache per core, and 24MB L3 cache per processor, 256GB main memory, Windows Server 2008 R2 Enterprise Edition, IBM DB2 9.7, SAP enhancement package 4 for SAP ERP 6.0. Certification number 2010012.

HP ProLiant BL680c G7 on the two-tier SAP SD standard application benchmark: 4 processors/40 cores/80 threads, Intel Xeon Processor E7-4870, 2.40GHz, 256KB L2 cache per core, and 30MB L3 cache per processor, 256GB main memory, Windows Server 2008 R2 Enterprise Edition, SQL Server 2008, SAP enhancement package 4 for SAP ERP 6.0. Certification number 2011016.

(3) The x3850 X5 model using the Intel Xeon E7-4870 processor is planned to be generally available May 20, 2011. The x3850 X5 as configured for this benchmark is planned to be generally available May 20, 2011.

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