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NEC Express5800 Enterprise Server Achieves New World Record TPC-E Benchmark Performance

Santa Clara, Calif.— April 1, 2010 — [NEC Corporation of America](#), a leading provider and integrator of advanced communications, networking and IT solutions, today announced that the [NEC Express5800/A1080a](#) enterprise server with Intel® Xeon® processor 7500 series technology achieved the fastest performance on the recently released [TPC-E benchmark](#).¹ In addition to holding the top position, NEC's Express5800/1000 series servers hold four of the top ten TPC-E performance benchmarks, the most of any vendor represented on this list.

This world record performance of 3,141.76 tpsE (transactions-per-second in TPC-E) at \$768.92 USD/tpsE achieved by the NEC Express5800/A1080a² outperforms, by more than 50 percent, the second-place performance record of 2,022.64 tpsE achieved by the IBM® System x3850 X5.³ The NEC Express5800/A1080a also has over two and a half times the tpsE performance with the approximately equal price per performance when compared to the only other TPC-E top ten performing eight-processor system.⁴

Building upon a decade long development experience of the NEC Express5800/1000 series, the fifth generation Express5800/A1080a server provides exceptional flexibility, capacity, performance and configurability exploiting the inherent functionality of the Intel® Xeon® processor 7500 series.

1 TPC-E is an industry-standard benchmark that is designed to be broadly representative of modern OLTP systems. The benchmark simulates a brokerage firm with customers, accounts and holdings, where customers trade stocks and monitor their accounts and the market.

2 NEC Express5800/A1080a-E with the Intel Xeon processor X7560 2.26GHz (8 processors/64 cores/128 threads) Microsoft SQL Server 2008 R2 Datacenter Edition and Microsoft Windows Server 2008 R2 Datacenter Edition, 3,141.76 tpsE, \$768.92 USD/tpsE, available June 24, 2010. Availability Date is that for the North American Market. Source: Transaction Processing Performance Council (TPC). The competitive benchmark results stated in this press release reflect results published on www.tpc.org as of March 30, 2010.

3 IBM System x3850 x5, Intel Xeon X7560 2.26 GHz (4 processors/32 cores/64 threads) Microsoft SQL Server 2008 R2 Datacenter Edition and Microsoft Windows Server 2008 R2 Datacenter Edition, 2,022.64 tpsE, 493.92 USD/tpsE, availability March 30, 2010.

4 UNISYS ES7000 Model 7600R Enterprise Server (8s), Intel Xeon X7460 2.66GHz (8 processors/48 cores/48 threads) Microsoft SQL Server 2008 Enterprise x64 Edition and Microsoft Windows Server 2008 Enterprise x64 Edition, 1,165.56 tpsE, 783.56 USD/tpsE, availability April 13, 2009.

This industry-leading benchmark was achieved with Microsoft® Windows Server® 2008 R2 and SQL Server® 2008 R2 running on the server hardware, which served as the database server, and NEC's innovative Enterprise Modular Storage D3-10 functioning as the database storage system.

NEC's achievement of this world-record benchmark with its new NEC Express5800/A1080a enterprise server has solidified its industry-leading performance. Drawing from NEC's rich heritage in mainframe computing, the NEC Express5800/A1080a enterprise server also has the reliability, availability and serviceability (RAS) features required to meet the increasing demands of business-critical applications. NEC is committed to providing mission critical database system solutions with NEC Express5800 enterprise server products.

Performance Results

Throughput	3141.76 tpsE
Price/performance	\$768.92 USD/tpsE
General availability date	June 24, 2010

Measured System

Database server	NEC Express5800/A1080a-E
Processor	Intel® Xeon® processor X7560
Number of processors	8
Number of processor cores enabled	64
Number of processor threads enabled	128
System memory	1024GB
Data storage	NEC Storage D3-10
Operating system	Microsoft® Windows Server® 2008 R2 Datacenter Edition
Database	Microsoft® SQL Server® 2008 R2 Datacenter Edition

About NEC Corporation of America

Headquartered in Irving, Texas, NEC Corporation of America is a leading provider of innovative IT, network and communications products and solutions for service carriers, Fortune 1000 and SMB businesses across multiple vertical industries, including Healthcare, Government, Education and Hospitality. NEC Corporation of America delivers one of the industry's broadest portfolios of technology solutions and professional services, including unified communications, wireless, voice and data, managed services, server and storage infrastructure, optical network systems, microwave radio communications and biometric security. NEC Corporation of America is a wholly-owned subsidiary of NEC Corporation, a global technology leader with operations in 30 countries and more than \$42 billion in revenues. For more information, please visit www.necam.com.

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