

***NEC Express5800/A1160 Scalable HA Server Achieves  
World Record Java Virtual Machine Performance  
among x86-based servers***

*~ Result also beats other 16-socket servers ~*

**Tokyo, March 17, 2009** - NEC Corporation today announced that the "NEC Express5800 Scalable HA Server" achieved world record performance for x86-based servers on the SPECjbb(R)2005 benchmark(\*1) powered by Intel Xeon(R) X7460 processors, Oracle JRockit(R) 6 and Red Hat(R) Enterprise Linux 5.3.

The NEC Express5800/A1160(\*2) delivers 2,150,260 SPECjbb(R)2005 bops. This is the world record among all x86-based servers. This is also the world record for 16 socket servers and beats the previous record by 40 percent. (\*3)

The NEC Express5800/A1160 features state of the art NEC server technology with an up to 4 box scalable building block structure powered by the Intel(R) Xeon(R) processor 7400 series and high speed interconnect "HSI technology." It also has the advanced reliability, availability, and serviceability (RAS) features that draw on NEC's rich heritage in mission-critical computing both in mainframe class and high-end Intel(R) Architecture server products.

"We are proud of this new world record. We believe that this further proves NEC's advanced server technology, integrated with powerful Oracle JRockit software, demonstrates the full potential of Xeon-based platforms," said Yukio Ito, senior vice president, NEC Corporation. "The NEC Express5800/A1160 server is an ideal choice for customers who want to consolidate their middleware applications on a single industry-standard server with the advanced reliability that meets increasing demands of business critical applications."

"Performance is critically important to our customers and Oracle is committed to ensuring that our solutions perform to exceptional standards," said Juan Loaiza, senior vice president, Systems Technology, Oracle. "Industry benchmarks such as this showcase the extreme speed of Oracle JRockit and Oracle's family of Java runtime solutions, key components of Oracle Fusion Middleware. Oracle JRockit with the NEC Express5800/A1160 is a combination well-suited for demanding application environments."

NEC is committed to providing the NEC Express5800 Scalable HA Server products as robust server consolidation platforms for both application servers and backend single mission-critical database systems solutions as well.

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Performance Results

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SPECjbb2005 bops	2,150,260
Number of JVM	16
SPECjbb2005 bops/JVM	134,391
Availability	May, 2009 (*4)

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## Measured System

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Server	NEC Express5800/A1160
Processor	Intel(R) Xeon(R) processor X7460 (2.66GHz/16MB L3 cache)
Number of processors	16
Number of processor cores	96
Number of processor threads	96
System Memory	256GB
OS	Red Hat(R) Enterprise Linux 5.3
JVM	Oracle JRockit(R) 6

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### About NEC Corporation

NEC Corporation is one of the world's leading providers of Internet, broadband network and enterprise business solutions dedicated to meeting the specialized needs of a diversified global base of customers. NEC delivers tailored solutions in the key fields of computer, networking and electron devices, by integrating its technical strengths in IT and Networks, and by providing advanced semiconductor solutions through NEC Electronics Corporation. The NEC Group employs more than 150,000 people worldwide. For additional information, please visit the NEC website at: <http://www.nec.com>

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### Notes

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(1) SPECjbb (Java Server Benchmark) developed by the Standard Performance Evaluation Corporation, is a benchmark for evaluating the performance of server side Java. SPECjbb2005 evaluates the performance of server side Java by emulating a three-tier client/server system.

(2) A 4-box configuration was used for this benchmark.

(3) Source: The Standard Performance Evaluation Corporation

The competitive benchmark results stated in this press release reflect results published on [www.spec.org](http://www.spec.org) as of February 25, 2009. For the latest SPECjbb2005 benchmark results, visit <http://www.spec.org/osg/jbb2005>.

- NEC, NEC Express 5800/A1160 (16 chips, 96 cores, 96 threads), 2,150,260 SPECjbb2005 bops, 134,391 SPECjbb2005 bops/JVM

- IBM, IBM Power 595 (16 chips, 32cores, 64 threads), 1,530,343 SPECjbb2005 bops, 95,646 SPECjbb2005 bops/JVM

(4) Availability as configured with the combination with specific software products used in this benchmark. The NEC Express 5800/A1160 is now generally available to customers.

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