# IBM posts SPECpower_ssj2008 score for System x3650 M4

*IBM System x3650 M4 demonstrates an improvement of 47.9% in power efficiency over previous-generation 2-processor score*

August 21, 2012 ... IBM® today announces a SPECpower® benchmark result for the IBM System x®3650 M4 server. Demonstrating exceptional performance per watt, the x3650 M4 server achieved a Performance to Power Ratio of 4,661 overall ssj_ops/watt on the SPECpower_ssj®2008 benchmark.

Using the new Intel® Xeon® Processor E5-2660, the x3650 M4 has demonstrated that it can deliver outstanding performance and reduce energy consumption. Compared to its previous-generation 2-processor score of 3,152 overall ssj_ops/watt, the x3650 M4's new score represents a power-efficiency improvement of 47.9%. (1)

The x3650 M4 was configured with the Intel Xeon Processor E5-2660 (2.2GHz, 20MB L3 cache per processor—16 cores/2 chips/8 cores per chip) and 24GB of PC3L-10600E (6 x 4GB) memory and ran IBM J9 Java™7 Runtime Environment and Microsoft® Windows® Server 2008 R2 Enterprise Edition Service Pack 1. (2)

The IBM System x3650 M4 is the IBM flagship, two-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.

Result referenced is current as of August 7, 2012, and has been submitted to SPEC® for review. Upon successful review, the result will be posted at http://www.spec.org. View all published results at http://www.spec.org/power_ssj2008/results/power_ssj2008.html.

(1)The x3650 M3 was configured with the Intel Xeon Processor X5675 (3.06GHz, 256KB L2 cache per core, 12MB L3 cache per processor – 12 cores/2 chips/6 cores per chip) and 16GB of PC3L-10600E (4 x 4GB) memory and ran IBM J9 Java 6 Runtime Environment and Microsoft Windows Server 2008 R2 Enterprise Edition. The score was published April 25, 2011.

(1) The x3650 M4 model using the Intel Xeon Processor E5-2660 is planned to be generally available at announce. The x3650 M4 as configured for this benchmark will be available at announce.