

IBM posts SPECpower_ssj2008 score for x3650 M3

x3650 M3 demonstrates 51% improvement in power efficiency over previous-generation 2-processor score

March 16, 2010 ... IBM® today announces a SPECpower® benchmark result for the IBM System x® 3650 M3 server. Demonstrating exceptional performance per watt, the x3650 M3 server achieved a Performance to Power Ratio of 2,927 overall ssj_ops/watt on the SPECpower_ssj®2008 benchmark. This score is leadership for a 2-socket, 2U rack system.

Using the new Intel® Xeon® Processor X5670, the x3650 M3 has demonstrated that it can deliver outstanding performance and reduce energy consumption. Compared to its previous-generation 2-processor score of 1,929 overall ssj_ops/watt, the x3650 M3's new score represents a power-efficiency improvement of 51%. (1)

The x3650 M3 was configured with the Intel Xeon Processor X5670 (2.93GHz, 256KB L2 cache per core, 12MB L3 cache per processor—12 cores/2 chips/6 cores per chip) and 12GB of PC3L-10600R (6 x 2GB) memory and ran IBM Java™6 Runtime Environment and Microsoft® Windows® Server 2008 R2 Enterprise x64 Edition. (2)

The IBM System x3650 M3 servers are 2-socket, 2U rack systems that feature power-optimized, high performance with the latest Intel Xeon 5500 and 5600 Series multi-core processor technology with QuickPath Interconnect (QPI), a large capacity of high-performing DDR3 memory, and a leadership, energy-efficient design with integrated advanced functionality. The x3650 M3 is designed to deliver leadership virtualization and systems management for business-critical workloads.

Result referenced is current as of March 16, 2010, and has been submitted to SPEC® for review. Upon successful review, the result will be posted at www.spec.org. View all published results at http://www.spec.org/power_ssj2008/results/power_ssj2008.html.

(1) IBM System x3650 M2 with the Quad-Core Intel Xeon Processor X5570 (2.93GHz, 256KB L2 cache per core, 8MB L3 cache per processor—8 cores/2 chips/4 cores per chip) and 8GB of memory and ran IBM J9 Java Runtime Environment and Microsoft Windows Server 2008 Enterprise x64 Edition. The score was published May 15, 2009.

(2) The x3650 M3 model using the Intel Xeon X5670 processor is planned to be generally available March 31, 2010. The x3650 M3 as configured for this benchmark will be available June 16, 2010.

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