IBM posts SPEC CPU2006 scores for quad-core x3650 M2

x3650 M2 achieves competitive scores for a 2-socket Intel processor-based system

March 30, 2009 ... The IBM System® x® 3650 M2 is a 2-socket, 2U rack server built with innovative IBM X-Architecture® that leverages Intel Quick Path Interconnect (QPI) technology. Featuring power-optimized, high-performance with the latest Intel® Xeon® 5500 Series quad-core processor technology and a leadership, energy-efficient design with integrated advanced functionality, the x3650 M2 is designed for single or multiple commercial application hosting and virtualized, non-blade environments.

In recent measurements, the x3650 M2 demonstrated competitive performance for a 2-socket Intel processor-based system on the SPEC CPU2006 benchmark suite.

For the SPECint2006 and SPECfp2006 runs, the x3650 M2 was configured with two Quad-Core Intel Xeon X5570 processors (2.93GHz, 256KB L2 cache per core and 8MB L3 cache per processor—2 processors/8 cores/16 threads), 12GB of DDR3 PC3-10600R memory, and SUSE Linux® Enterprise Server 10 x64 SP2.

For the rate runs, the x3650 M2 was configured with two Quad-Core Intel Xeon X5570 processors (2.93GHz, 256KB L2 cache per core and 8MB L3 cache per processor—2 processors/8 cores/16 threads), 24GB of DDR3 PC3-10600R memory, and Red Hat Enterprise Linux Server 5 Update 3. (1)

The scores in the following table are the first SPEC CPU2006 results published for this x3650 M2 processor model.

SPEC CPU2006 Benchmark	x3650 M2 – Quad-Core Intel Xeon Processor X5570 (2.93GHz, 256KB L2 Cache per Core, 8MB L3 Cache per Processor)
SPECint2006	35.0
SPECint_rate2006	250
SPECint_rate_base2006	234
SPECfp2006	40.0
SPECfp_rate2006	196
SPECfp_rate_base2006	190

Results are current as of March 30, 2009. The scores have been submitted to SPEC for review and will be posted on their Web site upon successful completion of the review. View all published results at www.spec.org.

(1) The x3650 M2 model using the Quad-Core Intel Xeon X5570 processor is planned to be generally available April 30, 2009.