IBM posts SPEC CPU2006 scores for x3650 M3

x3650 M3 delivers outstanding processor performance for compute-intensive applications

February 15, 2011 ... IBM® today announces SPEC® CPU2006 benchmark scores for the IBM System x® 3650 M3 server using the six-core Intel® Xeon® Processor X5690 and the quad-core Intel Xeon Processor X5687.

The x3650 M3 delivered competitive scores using two Intel Xeon X5690 processors (3.46GHz, 256KB L2 cache per core and 12MB L3 cache per processor—2 processors/12 cores/24 threads), 48GB of DDR3 PC3-10600R memory, and SUSE Linux® Enterprise Server 11 x64. (1)

The x3650 M3 delivered competitive scores using two Intel Xeon X5687 processors (3.60GHz, 256KB L2 cache per core and 12MB L3 cache per processor—2 processors/8 cores/16 threads), 48GB of DDR3 PC3-10600R memory, and SUSE Linux Enterprise Server 11 x64. (2)

The scores in the following table are the first SPEC CPU2006 results published for these x3650 M3 processor models.

SPEC CPU2006 Benchmark	Six-Core Intel Xeon Processor X5690 – 3.46GHz	Quad-Core Intel Xeon Processor X5687 – 3.60GHz
SPECint®2006	45.7	46.7
SPECint_base2006	42.8	43.7
SPECint_rate2006	413	322
SPECint_rate_base2006	386	305
SPECfp®2006	62.2	64.7
SPECfp_base2006	58.8	60.3
SPECfp_rate2006	269	235
SPECfp_rate_base2006	262	227

The IBM System x3650 M3 servers are 2-socket, 2U rack systems that feature power-optimized, high performance with the latest Intel Xeon 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.

Results are current as of February 15, 2011. 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 http://www.spec.org/cpu2006/results/.

(1) The x3650 M3 model using the Intel Xeon Processor X5690 is planned to be generally available March 15, 2011. The x3650 M3 as configured for this benchmark will be available March 15, 2011.

(2) The x3650 M3 model using the Intel Xeon Processor X5687 is planned to be generally available March 15, 2011. The x3650 M3 as configured for this benchmark will be available March 15, 2011.