

IBM posts SPEC CPU2006 scores for System x3455

IBM System x™ 3455 achieves competitive scores for a system using two AMD Opteron™ processors

May 20, 2008 ... The IBM® System x3455 server excels at compute-intensive applications and is ideal for clients requiring large memory addressability and out-standing cluster performance at an affordable price. The highly manageable, ultrathin 1U, rack-optimized platform includes dual-socket, quad-core AMD Opteron 2300 Series processors with HyperTransport technology. An integrated memory controller in each processor reduces latency for faster memory access.

The x3455 server is an energy-efficient system for high-performance computing. With the introduction of the newest AMD processors, the x3455 server features Dual Dynamic Power Management (DDPM) technology for optimum power consumption and increased performance. DDPM's separate power planes for processing cores and memory controller means cores can operate at reduced power consumption levels while the memory controller continues to run at full speed. In addition, the memory controller can operate at a higher frequency for increased bandwidth and performance.

The x3455 system, configured with two Quad-Core AMD® Opteron processors Model 2360 SE (2.5GHz with 512KB L2 cache per core and 2MB shared L3 cache—2 processor/8 cores/8 threads), has demonstrated competitive performance on the SPEC CPU2006 benchmark suite.

The scores in the following table are the first SPEC CPU2006 results published for the x3455 using the Quad-Core AMD® Opteron processor Model 2360 SE. (1) These results were achieved using SUSE Linux® Enterprise Server 10 SP1 x64.

SPEC CPU2006 Benchmark	x3455 – Quad-Core AMD Opteron Processor Model 2360 SE (2.5GHz, 4 x 512KB L2 Cache)
SPECint2006	15.2
SPECint_rate2006	106
SPECint_rate_base2006	91.9
SPECfp2006	15.7
SPECfp_rate2006	90.1
SPECfp_rate_base2006	82.4

Results are current as of May 20, 2008. 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) Planned availability for the IBM System x3455 using the Quad core AMD Opteron processor Model 2360 SE is July 7, 2008.

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