IBM System x3650 delivers leadership x86 two-processor results for Fluent benchmark

November 14, 2006 ... IBM® today announced that the IBM System x™ 3650 has delivered leading single-node performance for an x86 two-processor server running the Fluent standard benchmark. These are the first Fluent benchmark results published for the x3650 using the Quad-Core Intel® Xeon® Processor X5355. (1) The complete Fluent results for the x3650 can be viewed at: www.fluent.com/software/fluent/fl5bench/flbench_6.3.x/fullres.htm

Improved Fluent performance can result in quicker simulations by industry users, which can accelerate the development and delivery of better, more efficient products to the marketplace.

For the benchmark, the single-node x3650 system was configured with the Quad-Core Intel Xeon Processor X5355 (2.66GHz, 8MB L2 cache, 1333MHz FSB) and twelve 1GB FBD DDR2-5300 memory. The x3650 ran Red Hat® Enterprise Linux® AS release 4 (Nahant Update 4) and Parallel FLUENT 6.3.24 (64bit).

The x3650 is part of the System x rack-optimized server line. These two-socket servers deliver Intel Xeon quad-core power and excellent server function. With a compact 2U footprint, the rack-optimized System x3650 server helps save valuable rack space and resources. It is packed with highly integrated, advanced server features designed for compute-intensive, Web-based, or enterprise network applications, where space is a primary consideration.

About Fluent and the Fluent Benchmarks

Since its inception in 1983, Fluent has established itself as a global leader among commercial computational fluid dynamics (CFD) vendors, becoming the largest supplier of CFD software in the world. In May 2006, Fluent became a wholly owned subsidiary of ANSYS, Inc., the world's largest independent supplier of computer-aided-engineering (CAE) simulation software and solutions.

The Fluent Benchmarks can be used to compare performance of different hardware platforms running the FLUENT flow solver. The broad physical modeling capabilities of FLUENT have been applied to industrial applications ranging from air flow over an aircraft wing to combustion in a furnace, from bubble columns to glass production, from blood flow to semiconductor manufacturing, from clean room design to wastewater treatment plants. The ability of the software to model in-cylinder engines, aero-acoustics, turbo-machinery, and multiphase systems has served to broaden its reach.

Results are current as of November 14, 2006. For information about the industrial uses of Fluent, go to: http://www.fluent.com/solutions/index.htm

(1) Planned availability for the x3650 model using the Quad-Core Intel Xeon Processor X5355 (2.66GHz, 2 x 4MB L2 cache, 1333MHz FSB) is January 2007.