

IBM System x3650 delivers leadership result for LS-DYNA benchmark

November 14, 2006 ... IBM® today announced a leadership result for LS-DYNA with the 3cars (3 vehicle collision) workload on the IBM System x™ 3650.

LS-DYNA is heavily used in automobile crash simulation. Improved LS-DYNA performance can result in quicker simulations by industry users, which in turn can result in delivery of better and safer products to the marketplace in less time.

The x3650 server achieved an elapsed time of 34,010 seconds, which is 1.18 times better than the previous single-node 4-core result achieved using Dual Core Intel® Xeon® processors and 1.26 times better than the best AMD Opteron™ processor-based result from a single-node 4-core published result from HP on a single-node ProLiant DL145 configured with the 2.6GHz dual core Opteron processor.

These are the first LS-DYNA results published for the x3650 using the Quad-Core Intel Xeon Processor X5355. The single-node x3650 system was configured with the Quad-Core Intel Xeon Processor X5355 (2.66GHz, 8MB advanced transfer L2 cache, 1333MHz FSB) and twelve 1GB FBD DDR2-5300 memory. (1)

LS-DYNA, developed by the Livermore Software Technology Corporation, is a general-purpose transient dynamic finite element program capable of simulating complex real world problems. It is optimized for shared and distributed memory Unix®, Linux®, and Microsoft® Windows® platforms. LS-DYNA is being used by automobile, aerospace, manufacturing and bioengineering companies.

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.

Results are current as of November 14, 2006. The scores have been submitted to TopCrunch and are available at: www.topcrunch.org/benchmark_results.sfe

(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.

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