MSC Software Taps NVIDIA GPUs to Accelerate the Design of Automotive, Medical, Aerospace Products

Manufacturers Can Deliver Better Products Faster by Using Marc 2012 to Accelerate Structural-Analysis Simulations by up to 6X

TOKYO -- GTC Japan -- NVIDIA today announced that MSC Software Corp., a leader in multi-discipline simulation software solutions, has released a GPU-accelerated version of the Marc 2012 Finite Element Analysis application, which speeds up a range of engineering simulations.

Engineers seeking to solve complex manufacturing and design problems can use Marc 2012, supported by NVIDIA® Tesla® GPUs, to accelerate engineering simulations by two to six times. This enables engineers to develop more realistic models and higher quality simulations, with increased productivity and faster development cycles.

"The combination of GPU acceleration and Marc's multi-physics capabilities allows engineers to better capture true nonlinear behavior, resulting in dramatic design improvements across a range of models and industries," said Ted Wertheimer, senior director of product management at MSC Software. "Marc 2012 helps engineers optimize their designs in less time, enabling them to deliver products to market faster than ever."

Andrew Cresci, general manager for ISV Strategic Alliances at NVIDIA, said: "GPU-accelerated Marc 2012 enables engineers to run more high-fidelity design simulations in a given period of time. They can identify issues faster and deliver better, higher-performing products. In the case of the auto industry, this could mean improved powertrain reliability through better thermal management, longer-lasting transmission components with the design of more rugged rubber boots and seals, and better fuel efficiency."

Marc is a powerful, general-purpose, advanced nonlinear and multi-physics solution that accurately simulates the response of a range of products under static, dynamic and multi-physics loading scenarios. It enables engineers to easily simulate complex real world behavior of mechanical systems, including automotive and aerospace components, oil and gas drilling equipment, construction machinery, and medical devices, enabling them to solve complex manufacturing and design problems within a single environment.

Marc 2012 supports single- and multi-GPU system configurations, and is available for x86-based Windows 64-bit and Linux 64-bit systems. For more information or to purchase Marc 2012, contact MSC Software.

About NVIDIA Tesla GPUs
NVIDIA Tesla GPUs are massively parallel accelerators based on the NVIDIA CUDA® parallel computing platform and programming model. Tesla GPUs are designed from the ground up for power-efficient, high performance computing, computational science and supercomputing, delivering dramatically higher application acceleration for a range of scientific and commercial applications than a CPU-only approach.

More information about NVIDIA Tesla GPUs is available at the Tesla website. To learn more about CUDA or download the latest version, visit the CUDA website. More NVIDIA news, company and product information, videos, images and other information is available at the NVIDIA newsroom. You can also follow us on Twitter (@NVIDIATesla).

About NVIDIA
NVIDIA (NASDAQ: NVDA) awakened the world to computer graphics when it invented the GPU in 1999. Today, its processors power a broad range of products from smartphones to supercomputers. NVIDIA's mobile processors are used in cell phones, tablets and auto infotainment systems. PC gamers rely on GPUs to enjoy spectacularly immersive worlds. Professionals use them to create 3D graphics and visual effects in movies and to design everything from golf clubs to jumbo jets. And researchers utilize GPUs to advance the frontiers of science with high performance computing. The company has more than 5,000 patents issued, allowed or filed, including ones covering ideas essential to modern computing. For more information, see www.nvidia.com.

Certain statements in this press release including, but not limited to, statements as to: the impact and benefits of Marc 2012 and NVIDIA Tesla GPUs; and the effects of the company's patents on modern computing are forward-looking statements that are subject to risks and uncertainties that could cause results to be materially different than expectations. Important factors that could cause actual results to differ materially include: global economic conditions; our reliance on third parties to manufacture, assemble, package and test our products; the impact of technological development and competition; development of new products and technologies or enhancements to our existing product and technologies; market acceptance of our products or our partners products; design, manufacturing or software defects; changes in consumer preferences or demands; changes in industry standards and interfaces; unexpected loss of performance of our products or technologies when integrated into systems; as well as other factors detailed from time to time in the reports NVIDIA files with the Securities and Exchange Commission, or SEC, including its Form 10-Q for the fiscal period ended April 29, 2012. Copies of reports filed with the SEC are posted on the company's website and are available from NVIDIA without charge. These forward-looking statements are not guarantees of future performance and speak only as of the date hereof, and, except as required by law, NVIDIA disclaims any obligation to update these forward-looking statements to reflect future events or circumstances.

About NVIDIA

Since 1993, NVIDIA (NASDAQ : NVDA) has pioneered the art and science of visual computing. The company's technologies are transforming a world of displays into a world of interactive discovery — for everyone from gamers to scientists, and consumers to enterprise customers. More information at http://nvidianews.nvidia.com/ and http://blogs.nvidia.com/.

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