



Dassault Systèmes Delivers New, Innovative Realistic Simulation Technology in SIMULIA's Abaqus 6.11 Release

Nonlinear Structural Optimization, Electromagnetic Analysis, and GPU-Support Highlight Latest Release of Abaqus

VÉLIZY-VILLACOUBLAY, France and PROVIDENCE, R.I., USA, May 18, 2011 — [Dassault Systèmes](#) (Euronext Paris: #13065, DSY.PA), a world leader in 3D and Product Lifecycle Management (PLM) solutions, today announced new nonlinear structural optimization, coupled multiphysics, and high-performance computing technology available in Abaqus 6.11, the leading unified FEA product suite from SIMULIA.

With new capabilities and more than 100 customer-requested enhancements, Abaqus 6.11 delivers on SIMULIA's strategic commitment to provide scalable, high-quality realistic simulation solutions. SIMULIA customers in a wide range of industries—including aerospace, automotive, consumer packaged goods, energy, and life sciences—are using Abaqus to explore the real-world physical behavior of products and materials, in order to improve performance, reliability and safety, while reducing development time and costs.

"Meeting our customers' demands to simulate the true-to-life behavior of their products drives our strategy of developing the most innovative and robust realistic simulation solutions possible," stated Pat Cadrin, director of product management, SIMULIA, Dassault Systèmes. "With Abaqus 6.11, we have delivered new capabilities that allow users to analyze a broader range of multiphysics problems, leverage the latest high performance computing technologies, and accelerate the optimization of their designs. This release clearly demonstrates our commitment to enabling our customers to be more productive and efficient, and therefore more competitive in their race-to-market."

Abaqus 6.11 marks the first release of the Abaqus Topology Optimization Module (ATOM). This add-on product enables Abaqus users to perform topology and shape optimization for single parts and assemblies, while taking into account large deformation, material nonlinearity and contact.

"We are exploring the possible uses of ATOM on different nonlinear models and customer cases," said Rob van Tol, program manager of Virtual Engineering at Sirris, a technological services company in Belgium. "We are impressed by the way ATOM has been integrated in Abaqus and we believe that nonlinear topology optimization will provide significant time and cost savings during our customer's product development process as well as enable them to be more innovative in finding the best design to meet their product's performance requirements."

Abaqus 6.11 also introduces a new electromagnetics solution technology to solve problems requiring time-harmonic eddy current analysis, such as the hardening of a bearing surface due

to induction. In addition, this release provides a new smoothed particle hydrodynamics capability for modeling violent free-surface flows, such as fluid sloshing.

Additionally, customers will benefit from improved performance in Abaqus 6.11, including support for graphics processing units (GPU). “The ability to run more design candidates while shortening engineering cycles is the future of computer-aided engineering,” said Andrew Cresci, general manager of strategic alliances in NVIDIA’s Professional Solutions Group. “CUDA-based GPU acceleration in Abaqus 6.11 can provide a 2x speed up for a range of models and industries, helping SIMULIA customers dramatically improve their workflow and deliver higher quality products to market, faster.”

For more new Abaqus 6.11 features and enhancements visit:

www.simulia.com/products/abaqus_fea.

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About SIMULIA

SIMULIA is the Dassault Systèmes brand that delivers a scalable portfolio of Realistic Simulation solutions including the Abaqus product suite for Unified Finite Element Analysis, multiphysics solutions for insight into challenging engineering problems, and SIMULIA SLM for managing simulation data, processes, and intellectual property. By building on established technology, respected quality, and superior customer service, SIMULIA makes realistic simulation an integral business practice that improves product performance, reduces physical prototypes, and drives innovation. Headquartered in Providence, RI, USA, SIMULIA provides sales, services, and support through a global network of regional offices and distributors. For more information, visit www.simulia.com.

About Dassault Systèmes

As a world leader in 3D and Product Lifecycle Management (PLM) solutions, Dassault Systèmes brings value to more than 130,000 customers in 80 countries. A pioneer in the 3D software market since 1981, Dassault Systèmes applications provide a 3D vision of the entire lifecycle of products from conception to maintenance to recycling. The Dassault Systèmes portfolio consists of CATIA for designing the virtual product - DELMIA for virtual production - SIMULIA for virtual testing - ENOVIA for global collaborative lifecycle management, EXALEAD for search-based applications- SolidWorks for 3D mechanical design and 3DVIA for online 3D lifelike experiences. For more information, visit <http://www.3ds.com>.

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