Dassault Systèmes Announces Isight 5.6 for Simulation Automation and Design Optimization

Latest Release Accelerates Design Space Exploration with Smarter Optimization and Open Integration Enhancements

VÉLIZY-VILLACOUBLAY, France and PROVIDENCE, R.I., USA, December 19, 2011 — Dassault Systèmes (Euronext Paris: #13065, DSY.PA), a world leader in 3D and Product Lifecycle Management (PLM) solutions, today announced the availability of Isight 5.6, the market-leading open desktop solution for simulation process automation and design optimization from SIMULIA, the Dassault Systèmes brand for realistic simulation. Isight 5.6 includes enhancements in optimization, modeling and simulation integration, and postprocessing.

Isight provides designers, engineers and researchers with an open system for integrating design and simulation models—created with various CAD, CAE and other software applications—to automate the execution of hundreds or thousands of simulations. Isight allows users to save time and improve their products by optimizing them against performance or cost metrics through statistical methods such as Design of Experiments (DOE) or Design for Six Sigma.

“Isight has features and add-ons that allow us to integrate all of the different codes and interfaces used for our physics subroutines,” said Cosimo Chiarelli, head of the Aeromechanics and Propulsion unit in Business Segment Space Infrastructure and Transportation at Thales Alenia Space Italia in Turin. “It played a key role in helping us unify our processes and saved a considerable amount of time in our design optimization process.”

Among the new features for design optimization, Isight 5.6 provides a reliability analysis technique for importance sampling that allows users to compute and sample around the most probable point of failure in a design. When compared to sampling around the mean value point, importance sampling requires orders of magnitude fewer evaluations for the same accuracy in predicting the probability of failure or success. This is especially important in the verification of high-reliability systems, such as jet turbines or automotive brakes.

“Many customers, such as Thales Alenia Space, are gaining significant business benefits from using Isight as a tool for virtual product verification and validation,” said Alex Van der Velden, director, SIMULIA, Dassault Systèmes. “For example, when designing a space vehicle, one rarely has the luxury of using full-scale physical prototypes to iteratively optimize both the vehicle and its reentry trajectory. Virtual testing supported by simulation automation and design exploration technology is critical in helping manufacturing companies achieve the right performing design, faster and with less physical testing.”

Isight 5.6 also enhances several components, which are the building blocks of simulation process flows. The latest release includes updates to the Abaqus component to support multiple Abaqus/CAE cases by providing users with the option to parse all detected input files and create

output parameters for multiple analyses. Improvements to the Data Matching component enable the definition and matching of multiple data sets within multiple ranges.

Isight 5.6 delivers a number of postprocessing enhancements, including new options in the approximation viewer for overlay constraints graphs to perform quick trade-off studies by relaxing constraints, showing or hiding constraint boundaries, and viewing constraint violations using a floor projection graph.

For additional product information, visit: http://simulia.com/products/isight.html or http://www.3ds.com/products/simulia/portfolio/.

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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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