Agilent Technologies Integrates Device Modeling Flow

Agilent Technologies Inc.

Agilent Technologies Inc. [1] [NYSE: A [2]] has announced shipment of the latest release of its industry-leading SPICE model extraction tool, Model Builder Program, and SPICE qualification tool, Model Quality Assurance.

MBP and MQA 2013 feature major enhancements designed to enable device modeling engineers to deliver higher-quality models to their customers. Chief among them are a fully integrated data flow across Agilent's device modeling platform and the ability to establish and enforce standard operating procedures for modeling in team environments.

"With our acquisition of Accelicon last year, we continue to expand our expertise in device modeling," says Charles Plott, director of product planning at Agilent EEsof EDA. "This expertise uniquely positions Agilent to deliver a seamless data flow from measurement to model extraction to qualification."

Key MBP Capabilities

One of MBP's new components, Model Reviewer, allows users to standardize various aspects of device modeling in team environments. Model Reviewer enables teams to standardize model extraction policies, setup of the extraction environment, data usage, parameter-range enforcement and review procedures, among other things.

"Device modeling teams are mostly concerned with model quality and team efficiency," says Xisheng Zhang, device modeling marketing manager at Agilent. "Being able to establish and enforce standard operating procedures through MBP is critical to minimizing human errors from the onset of model extraction, which significantly improves team efficiency."

Other new MBP capabilities include model extraction based on circuit-level figures of merit, built-in principal component analysis, and a GUI-based custom model extraction environment.

New MQA Features

MQA now offers full support for Agilent's GoldenGate, the industry premium RF circuit simulator, and Synopsys' FineSim tool. It also gives users the ability to benchmark SPICE libraries with various versions of a simulator, making it a breeze for simulator upgrade qualification. Additionally, a parallel-run mechanism enables MQA to deliver considerably faster performance.

"The numerous and diverse set of new capabilities in MBP and MQA reflect the

latest device modeling challenges in methodology and productivity that our customers now face," says Brian Chen, device modeling product manager at Agilent. "Having these solutions in MBP and MQA 2013, readily available at users' fingertips, goes a long way in creating the highest quality models with the best efficiency."

For more information visit www.agilent.com [1].

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