Mentor Graphics®

Update Information Sheet

Thank you for ordering this Mentor Graphics Analog/Mixed-Signal product.

The AMS 2002.1 release includes ADVance MS 1.6_1, Eldo 5.8_1, Artist Link 4.1_3 and supporting utilities and libraries. AMS 2002.1 delivers significant improvements in performance, features and reliability over its predecessor. Here are the highlights:

- Eldo now supports correlation coefficients for parameters used in statistical analysis. Compatibility with legacy Hspice® and Spectre® netlists has improved. More flexibility is provided for the creation of waveforms, such as scattered plots, graphical templates and contour plots. Eldo uses a new mechanism to read device model libraries, significantly reducing load time. New device models available include the Philips MOS model 11, BSIM4.2.1, and a beta version of BSIM4.3.0.

- Eldo RF provides new options and algorithms to significantly speed up 3 and 4 tone analyses. The sweep analysis increment can now vary dynamically, depending on the ease of convergence. Eldo RF is now able to provide an estimation of the accuracy of the results, particularly for the high-order harmonics. A new modulation format, HPSK, is supported for WCDMA applications. Load-pull contours are now supported. The modulated steady-state analysis now supports oscillators, allowing the study of their initial transient phase.

- ADVance MS now uses a new simulation results database that unifies analog and digital data in a single, compact and efficient representation. Waveforms refresh faster and you can add and remove traces during simulation. A new algorithm for analog/digital interconnect uses a single analog node for each net, regardless of its complexity. Interconnect can now include *out* and *inout* scalars and vectors at the analog/digital boundary. VITAL packages make it easier to integrate VHDL synthesis output. ADMS has been extended with the new CommLib QuickStart source code libraries in VHDL-AMS and Verilog-A.

- ADVance CommLib has been extended with new A/D architectures for modern pipeline, flash and two-stage converters. There is a new model for balanced differential amplifier opamps, more digital functions exhibiting analog effects, and more PLL building blocks.

- The CommLib Behavioral Model Calibration extension is now available to all CommLib licensees. CommLib BMC automatically fits the parameters of a CommLib model to match the characteristics of a user's transistor level circuit.

- Artist Link has been expanded to support Corner Case and Monte Carlo interfaces. Dedicated forms help the user to setup and organize these complex simulations in a flexible way. The setups can be easily saved, edited and reloaded. A new interface for the ODI-based integration allows sweeping multiple parameters or design variables.

Read the release notes included with the product documentation to learn about these features and other enhancements. Use Acrobat Reader to load the *Analog/Mixed-Signal Simulators and Libraries Bookcase* from *$anacad/documentation/anacad_doc.pdf*. Look for the Release Notes near the top of the list.

Note Many AMS 2002.1 products require a new set of license features to replace the license features you used in previous releases. Please call your local sales office (see list at www.mentor.com/region/sales_offices.html) to obtain your new license file. The new license file will be backwards compatible with older AMS releases.

AMS 2002.1 reflects hundreds of improvements in response to the wide range of real customer experience and feedback we have received over the past 6 months. We think you will find it more useful than ever.

Henry Y. Chang,
AMS Marketing Director

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