

# Synopsys Delivers Unified Analog and Mixed-Signal Debug with Verdi Advanced AMS Debug Solution

Extends Verdi's Market-Leading SoC Debug Platform with Comprehensive and Automated AMS Debug Capabilities

MOUNTAIN VIEW, Calif., Feb. 23, 2016 /PRNewswire/ -- Synopsys, Inc. (NASDAQ: SNPS), today announced the availability of its Verdi® Advanced AMS debug solution. With today's mixed-signal system-on-chip (SoC) designs combining analog and digital components in complex design architectures, Synopsys' Verdi Advanced AMS debug solution enables SoC teams to seamlessly debug co-simulation of analog, digital and mixed-signal subsystems within a unified debug environment, saving valuable verification cycles, increasing overall productivity and accelerating verification closure.

Synopsys' Verdi Advanced AMS debug solution extends the capabilities of the market-leading Verdi SoC debug platform, recognized for being optimized, scalable and easy to use. Fully integrated with all Verdi debug views, Verdi Advanced AMS provides users with comprehensive hierarchical and schematic views of both the analog and digital portions of their designs. It enables seamless debug of the interfaces between analog and digital designs with dedicated interface element windows and automated tracing across analog and digital blocks. Additionally, it simplifies the painful, tedious and manual process of co-simulation setup for both initial and incremental simulation runs, with an intuitive graphical setup interface within Verdi. Current and voltage annotations across all design views, and synchronized waveform comparison enable faster analysis, while integration with Synopsys' Custom WaveView™ solution offers analog teams more advanced analog measurement and analysis capabilities in a familiar environment. Verdi Advanced AMS debug supports analog, digital or mixed-signal on-top configurations with language support for SystemVerilog, Verilog, VHDL, Verilog-A, SPICE and other industry standard modeling languages and formats, including UPF for low-power mixed-signal verification. Interoperable with all major simulation solutions including third-party as well as Synopsys' VCS® and VCS AMS solutions, Verdi Advanced AMS Debug fits easily into existing analog and mixed-signal verification flows.

"With the convergence of analog and digital designs in today's complex SoCs, SoC teams are challenged to debug these designs in a timely and effective way," said Yu-Chin Hsu, vice president of R&D in Synopsys Verification Group. "Through the addition of Verdi Advanced AMS Debug to the market-leading Verdi SoC Debug Platform, we enable these teams to address this challenge head-on and achieve accelerated time-to-market."

## Availability & Resources

Verdi Advanced AMS Debug is in limited customer availability (LCA) and is also included as part of Synopsys' Verification Compiler™ product which is available today.

For more information on Synopsys' Verdi Advanced AMS debug, visit:

- [Verdi Advanced AMS Debug](#) page
- Synopsys booth at [DVCon](#) on Feb 29 – Mar 3

## About Synopsys

Synopsys, Inc. (Nasdaq:SNPS) is the Silicon to Software™ partner for innovative companies developing the electronic products and software applications we rely on every day. As the world's 16<sup>th</sup> largest software company, Synopsys has a long history of being a global leader in electronic design automation (EDA) and semiconductor IP and is also growing its leadership in software quality and security solutions. Whether you're a system-on-chip (SoC) designer creating advanced semiconductors, or a software developer writing applications that require the highest quality and security, Synopsys has the solutions needed to deliver innovative, high-quality, secure products. Learn more at [www.synopsys.com](http://www.synopsys.com).

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