

Synopsys Accelerates Low-Power Designs With Comprehensive Implementation and Verification Solution

UPF Compliance Will Minimize Risk and Improve Designer Productivity

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MOUNTAIN VIEW, Calif., March 29 /PRNewswire-FirstCall/ -- Synopsys, Inc. (NASDAQ: SNPS), a world leader in semiconductor design software, today announced that it is enhancing its comprehensive low-power verification and implementation solution to ensure compliance with the widely supported Unified Power Format (UPF) 1.0 Accellera standard. Proven by over 20 successful multi-voltage tapeouts, the Synopsys solution spans the entire low-power design flow from hardware/software power trade-off at the system level through simulation and static verification of low-power intent, complete low-power RTL-to-GDSII implementation and sign-off, and a comprehensive set of low-power intellectual property (IP). The enhanced solution with support for UPF 1.0 is expected to be available in the second half of 2007.

The Discovery™ Verification Platform is a comprehensive solution for low-power verification from system to RTL to transistor level. The Discovery platform enables power-aware simulation, formal equivalence checking, and static analysis of designs that use modern low-power techniques including multiple power domains, level shifters, isolation cells, and retention memory elements. The platform ensures correct functionality of power-sensitive analog, memory, and custom-digital designs through automatic detection of leakage paths, analysis of dynamic IR drop, and functional verification of complex power management circuitry.

The Galaxy™ Design Platform delivers the lowest power consumption, highest design performance and highest productivity through its complete low-power portfolio. It includes the most advanced low-power techniques, such as multi-voltage and MTCMOS power gating, as well as more commonly used techniques such as clock gating and multi-threshold libraries. In addition, it performs comprehensive dynamic and leakage power optimization and analysis throughout the synthesis, physical design and sign-off phases of the design process.

Synopsys DesignWare® IP is architected for low power consumption in both active and standby modes. This is achieved by using power-efficient transmitters, phase-locked loop (PLL) blocks and clock gating techniques. Synopsys' USB 2.0 nanoPHY, designed for the latest mobility devices, consumes half the power of previous USB implementations. The PCI Express™, Serial ATA (SATA), and XAUI high-speed serializer/deserializer (SERDES) PHY IP support low-power modes and consume significantly less power than similar IP on the market.

UPF 1.0 was created in response to customer demand for a standard that enables consistent and interoperable end-user low-power flows and methodologies. Built upon proven technologies donated to Accellera by key players in the electronic design automation (EDA) and low-power semiconductor markets, UPF delivers the long-awaited productivity gains and simplification of low-power design flows.

"Increasing our customers' market competitiveness has been a key driver for us in developing our low-power solution," said John Chilton, senior vice president of Marketing and Business Development at Synopsys. "Our Galaxy Design and Discovery Verification Platforms, complemented by a portfolio of low-power IP, offer our customers the comprehensive and advanced solution they need to quickly bring to market the most competitive low-power designs."

About Synopsys

Synopsys, Inc. is a world leader in electronic design automation (EDA) software for semiconductor design. The company delivers technology-leading semiconductor design and verification platforms and IC manufacturing software products to the global electronics market, enabling the development and production of complex systems-on-chips (SoCs). Synopsys also provides intellectual property and design services to simplify the design process and accelerate time-to-market for its customers. Synopsys is headquartered in Mountain View, California and has offices in more than 60 locations throughout North America, Europe, Japan and Asia. Visit Synopsys online at <http://www.synopsys.com/>.

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Editorial Contacts:
Sheryl Gulizia
Synopsys, Inc.

650-584-8635
sgulizia@synopsys.com

Rachel Modena Barasch
MCA, Inc.
650-325-7547
rbarasch@mcapr.com

SOURCE: Synopsys, Inc.

CONTACT: Sheryl Gulizia of Synopsys, Inc., +1-650-584-8635,
sgulizia@synopsys.com; or Rachel Modena Barasch of MCA, Inc., +1-650-325-7547,
rbarasch@mcapr.com, for Synopsys

Web site: <http://www.synopsys.com/>
