

Synopsys and X-FAB Team to Accelerate Analog Mixed-Signal IC Design

Comprehensive Design Kit for X-FAB's 0.6-Micron Process Improves Quality and Speeds Time to Market

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Synopsys, Inc. (NASDAQ: SNPS), a world leader in semiconductor design software, and X-FAB Semiconductor Foundries AG, one of the world's leading independent analog mixed-signal semiconductor foundries, today announced that the two companies have collaborated to deliver a Foundry Technology Kit (FTK) for Synopsys' analog mixed-signal design flow supporting X-FAB's 0.6-micron CMOS process (XC06). The comprehensive design kit provides the infrastructure, components, and an efficient path from design to physical implementation, thus reducing time-to-market and risk.

With the FTK, designers using the X-FAB process can accurately simulate their designs with Synopsys products and capabilities: specifically, the HSPICE® simulator, physical implementation features in the Cosmos™ custom design system, Hercules™ physical verification and the Star-RCXT™ 3D parasitic RC extractor. The FTK is a comprehensive design kit that includes SPICE models, technology files, schematic symbols, p-cells, DRC/LVS runsets and parasitic RC extraction files.

"X-FAB and Synopsys have teamed to give our customers access to a complete, validated tool flow for our XC06 process," said Dr. Jens Kosch, chief technical officer at X-FAB. "This provides them with a tested path from design to physical implementation and helps ensure that their designs get to market as quickly as possible."

XC06 is a single poly, double or triple metal n-well CMOS process with very flexible combinable modules that include a wide variety of medium- and high-voltage MOS transistors, passive elements, and embedded EEPROM and Flash blocks. The XC06 0.6-micron process typically is used in applications such as industrial, automotive and telecommunication products.

"Synopsys collaborates with our foundry partners to deliver qualified design flows for our analog mixed-signal customer base," said Edmund Cheng, vice president of marketing, Silicon Engineer Group at Synopsys. "Our continuing efforts with X-FAB will deliver additional FTKs in the future and broaden our joint solutions in this growing market."

Availability

The Synopsys/X-FAB FTK is available now from X-FAB.

About X-FAB

X-FAB is a leading pure-play foundry that specializes in analog mixed-signal applications. With its three manufacturing sites in Germany, the U.K., and the U.S., X-FAB has a combined capacity of more than 28,000 8-inch equivalent wafer starts per month. When manufacturing silicon wafers for analog mixed-signal ICs, X-FAB combines leading-edge CMOS and BiCMOS process technologies with world-class technical support during IC development throughout the entire product development cycle. Visit X-FAB online at: <http://www.xfab.com/>.

About Synopsys AMS

Synopsys offers a complete front-to-back custom IC design flow and the industry's most comprehensive analog mixed-signal simulation products. With Cosmos, designers can efficiently capture and implement their custom blocks using advanced schematic-driven layout capabilities that can significantly increase productivity over traditional layout methodologies. Along with the industry-leading golden HSPICE, NanoSim®, HSPICE®, and VCS® simulators, designers can quickly and accurately design and verify their ICs with the flexibility of simulating design abstractions in any combination of Verilog, SPICE, Verilog-A and Verilog-AMS. At the back end of the design flow, the Hercules physical verification suite provides high performance physical verification for any hardware configuration with its distributed processing technology and Star-RCXT provides highly accurate 3D parasitic RC extraction.

About Synopsys

Synopsys, Inc. is a world leader in 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:

Madelyn Miller	Thomas Hartung
Synopsys, Inc.	X-FAB Semiconductor Foundries AG
650-584-8832	+49-361-427-6160
madelynm@synopsys.com	thomas.hartung@xfab.com

Melissa Chanslor	Sarah Miller
Edelman	ThinkBold Corporate Communications
650-968-4033	231-264-8636
melissa.chanslor@edelman.com	sarah@thinkbold.com

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CONTACT: Madelyn Miller of Synopsys, Inc., +1-650-584-8832, or madelynm@synopsys.com; or Melissa Chanslor of Edelman, +1-650-968-4033, or melissa.chanslor@edelman.com, for Synopsys, Inc.; or Thomas Hartung of X-FAB Semiconductor Foundries AG, +49-361-427-6160, or thomas.hartung@xfab.com; or Sarah Miller of ThinkBold Corporate Communications, +1-231-264-8636, or sarah@thinkbold.com, for X-FAB Semiconductor Foundries AG

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

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