PrimeYield LCC Enables Litho-Clean Tapeout for LG Electronics HDTV Application Chipset

PrimeYield LCC Successfully Reduces Litho-Induced Design Respins

MOUNTAIN VIEW, Calif., March 3 /PRNewswire-FirstCall/ -- Synopsys, Inc. (NASDAQ: SNPS), a world leader in software and IP for semiconductor design and manufacturing, today announced that LG Electronics (LGE) has successfully discovered and fixed lithography hotspots in its HDTV application chipset using Synopsys' PrimeYield LCC (lithography compliance checker). The HDTV application chipset, a high-volume design on TSMC 65nm technology, is intended for use in high-definition television. PrimeYield LCC enables designers to avoid having to either respin their designs due to missing litho hotspots or rely on a post-tapeout foundry service that could take one to four weeks to perform the litho verification.

To accurately flag critical hotspots, PrimeYield LCC utilizes encrypted manufacturing information from the foundry. Using this information together with Synopsys' production-proven Proteus optical proximity correction (OPC) technology, PrimeYield LCC creates a "virtual fab" to provide fast and accurate results on the designer's desktop. In addition to flagging litho- hotspot results in a format similar to design rule checking (DRC), PrimeYield LCC provides correction guidance to the Synopsys IC Compiler place-and-route solution.

This auto-correction link between PrimeYield LCC and IC Compiler was the key to LG Electronics' selection of PrimeYield LCC. According to Woo-Hyun Paik, vice president of LG Electronics, System IC Business Unit, "As a longtime customer, we're familiar with the benefits of Synopsys' physical design products. With PrimeYield LCC, we were able to extend those benefits into manufacturing to deliver a zero-defect design to the foundry."

"PrimeYield LCC extends DRC by performing accurate and foundry-qualified lithography checks," said Antun Domic, Synopsys senior vice president and Implementation Group general manager. "The successful use of PrimeYield LCC for high-volume chips such as the LGE HDTV application chipset is a testament to the tool's value in avoiding litho-induced design respins."

About LG Electronics

LG Electronics, Inc. (KSE: 066570.KS) is a global leader and technology innovator in consumer electronics, home appliances and mobile communications, employing more than 82,000 people working in over 110 operations including 81 subsidiaries around the world. With 2007 global sales of USD 44 billion, LG is comprised of four business units -- Mobile Communications, Digital Appliance, Digital Display and Digital Media. LG is the world's leading producer of mobile handsets, flat panel TVs, air conditioners, front-loading washing machines, optical storage products, DVD players and home theater systems. For more information, please visit http://www.lge.com/.

About Synopsys

Synopsys, Inc. (NASDAQ: SNPS) is a world leader in electronic design automation (EDA) software for semiconductor design. The Company delivers technology-leading system and semiconductor design and verification platforms, IC manufacturing and yield optimization solutions, semiconductor intellectual property and design services to the global electronics market. These solutions enable the development and production of complex integrated circuits and electronic systems. Through its comprehensive solutions, Synopsys addresses the key challenges designers and manufacturers face today, including power management, accelerated time to yield and system-to-silicon verification. Synopsys is headquartered in Mountain View, California, and has more than 60 offices located throughout North America, Europe, Japan and Asia. Visit Synopsys online at https://www.synopsys.com/.

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