

Synopsys Star-RCXT Extraction Solution Achieves Industry's Broadest 65-Nanometer Qualification and Usage

Star-RCXT Qualified by More Than 50 Leading Companies and Trusted on Over 125 Tapeouts

MOUNTAIN VIEW, Calif., Sept. 24 [PRNewswire-FirstCall](#)/ -- Synopsys, Inc. (NASDAQ: SNPS), a world leader in semiconductor design software, today announced that the Synopsys Star-RCXT™ parasitic extraction solution has been qualified and selected by more than 50 leading semiconductor companies to achieve silicon-accurate sign-off for System-on-Chip (SoC), ASIC, memory, custom digital and analog/mixed-signal 65-nanometer (nm) designs. Already trusted for more than 125 successful 65-nm production tapeouts, the Star-RCXT solution continues as the gold standard solution with the industry's broadest 65-nm qualification and usage.

Companies that have qualified and selected the Star-RCXT solution for use in their 65-nm sign-off and tapeout flows include Advanced Micro Devices, Inc., Altera Corporation, Analog Devices, Inc., ARM, Avago Technologies, Broadcom Corporation, Chartered Semiconductor Manufacturing Ltd., the Common Platform Technology Alliance, Fujitsu Limited, HiSilicon Technologies Co., Ltd. (former ASIC Design Center of Huawei Technologies Co., Ltd.), Hynix Semiconductor, Inc., IBM, Icera Semiconductor, Juniper Networks, Inc., LG Electronics, Marvell Technology Group, Ltd., NEC Electronics, NVIDIA Corporation, P. A. Semi, Inc., RealTek Semiconductor Corporation, Renesas Technology Corp., Samsung Electronics Company, Ltd., Solarflare Communications, Inc., Toshiba Corporation, Taiwan Semiconductor Manufacturing Company, Ltd., United Microelectronics Corporation, Virage Logic Corporation, and others.

"Our leading-edge customers at 65 nanometers are using the Star-RCXT solution on the merits of its silicon-accurate modeling of advanced process effects to achieve successful design tapeout," said Robert Hoogenstryd, director of Design Analysis and Sign-Off Marketing at Synopsys. "Reaching this milestone of more than 50 customers and over 125 production tapeout successes at 65 nanometers clearly shows that the Star-RCXT solution will continue its leadership position as 65-nm process technology transitions into mainstream production."

The Star-RCXT solution is the leading parasitic extraction solution within Synopsys' Galaxy™ Design Platform, and the only single-tool extraction solution to cover cell-based, memory, custom digital, and analog/mixed-signal designs. The Star-RCXT solution supports the advanced capabilities required by 65-nm design, including process variation-aware modeling such as selective process biasing (spacing- and width-dependent metal bias), chemical-mechanical polishing (CMP) based effects including density and width-dependent thickness variation, width-dependent temperature variation, micro-loading effect and low-K dielectric damage. With efficient memory usage, multi-CPU/multi-core distributed processing, adaptive extraction algorithms and proprietary parasitic reduction capability, the Star-RCXT solution provides extremely high performance and capacity while generating the smallest and most sub-femtofarad accurate netlist necessary to sign-off the world's largest SoC designs.

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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SOURCE: Synopsys, Inc.

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