Hyperstone Selects Synopsys VCS for Verification of Leading Safety-Critical Industrial Memory Card Controller SoCs

Industry-Leading VCS the Only Verification Technology Capable of Meeting Highest Reliability and Capacity Verification Requirements

KONSTANZ, Germany and MOUNTAIN VIEW, Calif., Nov. 26, 2013 /PRNewswire/ -- Hyperstone, a fabless semiconductor and microprocessor design company, and Synopsys, Inc. (Nasdaq:SNPS), a global leader providing software, IP and services used to accelerate innovation in chips and electronic systems, today announced that Hyperstone has selected Synopsys as the provider of high-quality, reliable verification tools for its safety-critical designs. Hyperstone's complex system-on-chips (SoCs) target industrial, automotive and medical applications where the highest quality and reliability are required. For Hyperstone, Synopsys' industry-leading VCS® functional verification solution uniquely fulfilled the technology needs for this level of quality and reliability.

"Our new S8 SD 3.0 and eMMC 4.4 industrial flash memory card controller is designed to deliver the highest level of reliability and data retention when using innovative sub-20-nm multi-level cell flash technologies. Tying state-of-the-art error-correction code to our proven hyReliability™ firmware architecture ensures the highest levels of endurance and reliability that our customers are used to," said Axel Mehnert, vice president of marketing at Hyperstone. "Our mission is enabling future NAND flashes and advanced technologies to be fit for use, especially within industrial, ruggedized applications. This requires the robust verification and analysis provided to us uniquely by Synopsys' VCS functional verification solution. No other technology had the capacity, performance, advanced verification features and reliability to verify such complex designs."

"SoCs used in safety-critical and industrial markets are growing in size and complexity, requiring high-reliability, high-capacity and high-performance verification technology," said Rohit Vora, vice president of R&D in Synopsys' Verification Group. "We continue to collaborate with industry leaders in this space, such as Hyperstone, to offer unique verification technology targeted for this growing market."

About Hyperstone

Hyperstone, a fabless semiconductor and microprocessor design company, was founded in 1990 and is based in Konstanz, Germany. Together with subsidiaries inTaiwan, USA and with other worldwide partners, Hyperstone serves a global customer base. Hyperstone is a member of the CML Microsystems Plc group, traded on the London Stock Exchange. Hyperstone research and development is based in Germany and Taiwan. Industry-leading partners provide world-class wafer subcontracting, packaging, and testing services. Hyperstone's success is based on its proprietary 32-Bit RISC processor, optimized for flash handling applications.

Hyperstone's products include microcontrollers for Serial-ATA and Parallel-ATA Solid State Disks (SSD), Disk-on-Module (DoM), Disk-on-Board (DoB), embedded Flash solutions such as eMMC, and Flash cards such as CF, SD & microSD. Flash controller firmware is supplied complementary to the controllers and customized for each flash and application. Hyperstone is one of the pioneers in the flash memory controller business and owns several patents for flash handling, including wear leveling algorithms and microprocessor design.

About Synopsys

Synopsys, Inc. (Nasdaq:SNPS) accelerates innovation in the global electronics market. As a leader in electronic design automation (EDA) and semiconductor IP, Synopsys delivers software, IP and services to help engineers address their design, verification, system and manufacturing challenges. Since 1986, engineers around the world have been using Synopsys technology to design and create billions of chips and systems. Learn more at www.synopsys.com.

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