Synopsys and NXP Extend Multiyear Automotive Center of Excellence Collaboration for NXP S32 Automotive Processing Platform

New Virtualizer Design Kits Enable Automotive Tier 1 and OEM Companies to Start Software Development, Integration and Test Before Silicon

MOUNTAIN VIEW, Calif., Oct. 18, 2017 /PRNewswire/ -- Synopsys, Inc. (Nasdaq: SNPS), today announced the extension of its multiyear Center of Excellence (CoE) program with NXP and availability of Virtualizer™ Development Kits (VDKs) for NXP S32 Automotive Processing Platform. VDKs, software development kits using a virtual prototype as the embedded target, enable Tier 1 and OEM companies to start software development and integration and test months before silicon is available. The CoE collaboration combines Synopsys' VDK technology and deployment expertise with the benefits of NXP's S32 platform. VDKs for S32 platform have been deployed to NXP internal software teams, software partners and automotive Tier1 and OEM companies to accelerate software testing.

"Pre-silicon platforms like Synopsys' VDKs enable OEMs to accelerate the development and eventual deployment of new features in the car," said Matt Johnson, senior vice president and general manager Product Lines and Software, Auto MCU and Processors at NXP Semiconductors. "Extending our successful Center of Excellence in collaboration with Synopsys ensures the earliest availability of VDKs for the new S32 platform so that our internal software development, ecosystem partners and mutual customers can further accelerate their development activities."

Synopsys Virtualizer and VDKs, the industry-leading virtual prototyping solution, enable automotive companies to start software development early and increase testing throughput using a Virtual Hardware Electronic Control Unit (ECU). The newly announced NXP S32 Automotive Processing Platform is the world's first fully-scalable automotive computing architecture addressing the challenges of future car development and allowing carmakers to bring rich in-vehicle experiences and automated driving functions to market much faster. Using VDKs for NXP S32 platform, automotive Tier 1 and OEM companies can establish a Virtual Hardware ECU environment for system integration, fault and coverage testing, corner case studies and regression testing, resulting in faster development, higher software quality and increased system reliability.

"Automotive system developers, such as those using NXP's Automotive Processing Platform, need solutions to start development and test earlier," said Eshel Haritan, vice president of engineering for the Synopsys Verification Group. "Our joint collaboration ensures that carmakers and automotive suppliers have immediate access to VDKs to deploy a Virtual Hardware ECU environment and develop software for the next generation of automotive electronic systems earlier and faster."

Availability & Resources

VDKs for NXP S32 platform are available now. Contact Synopsys for more information regarding the VDKs for NXP S32 processing platform.

- Learn more about VDKs for Automotive:
  www.synopsys.com/autovdk
  Video: Synopsys Virtual HW ECUs and NXP S32 Automotive Processing Platform

About Synopsys

Synopsys, Inc. (Nasdaq: SNPS) is the Silicon to Software™ partner for innovative companies developing the electronic products and software applications we rely on every day. As the world's 15th largest software company, Synopsys has a long history of being a global leader in electronic design automation (EDA) and semiconductor IP and is also growing its leadership in software security and quality solutions. Whether you're a system-on-chip (SoC) designer creating advanced semiconductors, or a software developer writing applications that require the highest security and quality, Synopsys has the solutions needed to deliver innovative, high-quality, secure products. Learn more at www.synopsys.com.

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