



Zuken and SiSoft unite to provide multi-gigabit design and analysis solutions

19 August 2014 – Munich, Germany and Westford, MA, USA – Zuken and SiSoft™ have united to deliver solutions for complex high-speed designs and multi-gigabit applications.

By integrating SiSoft's advanced signal integrity solutions for state-of-the-art, high-speed digital system design with Zuken's 3D multi-board, system-level platform, the two companies will provide a combined design and verification flow. The companies will initially focus on integration between Zuken's CR-8000 tool suite and SiSoft's Quantum Channel Designer® and Quantum-SI™ tools.

"We see high-speed interfaces, such as PCI-Express, IEEE802.3, DDR3 and DDR4, continue to expand in applications across industries such as smartphone/tablet, automotive, defense/mil-aero, telecom, computer, and storage. At the same time, design teams are struggling to meet stringent timelines using disconnected tools. Our collaboration with SiSoft will help design teams manage their work concurrently and intelligently," said Humair Mandavia, Executive Director of the SOZO Center, Zuken's R&D facility in Silicon Valley.

"SiSoft's IBIS-AMI models provide plug-and-play simulation of serializer/deserializer (SerDes) behavior using commercial EDA tools," said Barry Katz, President and CTO of SiSoft. "They include conventional analog and algorithmic (compiled code) components which support both statistical and time-domain channel simulations running orders of magnitude faster than traditional SPICE models (up to 1 million bits/minute). This allows designers to explore large design spaces during pre-route analysis and perform comprehensive post-route validation," he adds.

Integration support for CR-8000 and CR-5000

The increased need for active equalization circuitry in multi-gigabit serial links, and the growing utilization of DDR2, DDR3 and DDR4 parallel bus technology, are driving the requirement to integrate timing, signal integrity and crosstalk analysis. The Zuken/SiSoft combination provides true high-speed design closure for system, FPGA and ASIC designs. SiSoft's tools support the mixed use of transistor-level HSPICE, IBIS and IBIS-AMI models for signal integrity simulations.

Quantum Channel Designer and Quantum-SI tools will exchange accurate geometry and electrical information with both CR-8000 Design Force and CR-5000 Board Designer. The Zuken/SiSoft flow supports analysis and verification to help reduce input errors and eliminate geometric approximations. With this combination, the user will be able to analyze specific sections of the board, specific nets, or the entire design.

For more information see www.zuken.com/cr-8000

* SiSoft is a trademark of "Signal Integrity Software, Inc.

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For a downloadable Word document and press images visit the press kits area of the press center www.zuken.com/presskits.

Words = 373

Captions

Image: Z0421-Zuken-Mandavia1

Caption: Humair Mandavia, Executive Director of Zuken's SOZO Center, USA

Image: Z0421-Zuken-Katz2

Caption: Barry Katz, President and CTO of SiSoft

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About SiSoft

SiSoft provides award-winning EDA simulation software, methodology training and consulting services for system-level high-speed design. Quantum Channel Designer is the Industry's Premier Channel Simulator for the design and analysis of multi-gigabit serial links and a DesignVision Award Winner. Quantum-SI is the leading solution for integrated signal integrity, timing and crosstalk analysis of high-speed parallel interfaces. SiSoft's software products automate comprehensive pre- and post-route analysis of high speed interfaces, detailing a design's operating voltage and timing margins. Design Space Exploration lets designers explore hundreds of design tradeoffs automatically, quickly optimizing designs for cost, reliability and performance www.sisoft.com

About Zuken

Zuken is a global provider of leading-edge software and consulting services for electrical and electronic design and manufacturing. Founded in 1976, Zuken has the longest track record of technological innovation and financial stability in the electronic design automation (EDA) software industry. The company's extensive experience, technological expertise and agility, combine to create world-class software solutions. Zuken's transparent working practices and integrity in all aspects of business produce long-lasting and successful customer partnerships that make Zuken a reliable long-term business partner.

Zuken is focused on being a long-term innovation and growth partner. The security of choosing Zuken is further reinforced by the company's people—the foundation of Zuken's success. Coming from a wide range of industry sectors, specializing in many different disciplines and advanced technologies, Zuken's people relate to and understand each company's unique requirements. For more information about the company and its products, visit www.zuken.com