

Enhanced Carbon Model Studio Reduces Time to Create Models

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New Debug, Model Validation Capabilities to be Demonstrated at DAC

ACTON, Mass.--Carbon Design Systems™ today released an enhanced version of Carbon Model Studio, the leading solution for the automatic generation, validation and implementation of hardware-accurate software models, to dramatically reduce the time it takes to develop and deploy new system models.

Additional capabilities were added to Carbon Model Studio to reduce the debug time and improve the generation of Model Validation components.

Carbon Model Studio will be demonstrated during the 45th Design Automation Conference (DAC) in booth #2467 June 9-12 at the Anaheim Convention Center in Anaheim, Calif.

“Carbon kicked off 2008 with a goal to reduce the time needed to generate models,” remarks Bill Neifert, chief technical officer (CTO) at Carbon Design Systems. “We are following through on this pledge with an advanced Carbon Model Studio to give designers a way to quickly and effortlessly create models that can plug into a virtual platform environment.”

A key debug improvement provides increased visibility into complex design constructs. Carbon Model Studio offers full visibility into named and unnamed generate blocks, VHDL composite types and multi-dimensional arrays, including nested arrays and composites. In addition, Carbon Models have new application programming interface (API) calls for accessing design constructs.

With improved model validation, design teams can control the model validation generation process from inside Carbon Model Studio through a new component editor. The Model Validation component's mixed-language shadow hierarchy matches that of the original design for tighter integration into complex testbenches, assertion languages and custom validation environments.

Carbon Model Studio is the only model generation solution with integrations to a wide variety of commercial and open source virtual platforms, such as environments from CoWare, MIPS, OSCI SystemC, Synopsys and VaST. It is used by the entire design team, from system architects and software engineers to hardware designers and third-party intellectual property (IP) providers. System architects can use it for architectural analysis and profiling. Software engineers can develop and debug embedded software, firmware, drivers and diagnostics concurrent with hardware development. Carbon Models can be securely distributed to third-party partners to accelerate adoption of an IP provider's technology devices.

Pricing and Availability

Carbon Model Studio is shipping now and is available for Solaris and PC platforms running Linux and Windows. Pricing for the complete model-generation and execution solution is “use-model” dependent and starts at \$20,000.

Details can be found at: www.carbondesignsystems.com. Or, send email requests to: info@carbondesignsystems.com

About Carbon Design Systems

Carbon is the leading supplier of system-level tools to automatically create, validate and deploy software models generated from Verilog and/or VHDL descriptions. Carbon's models are used in conjunction with SystemC simulation platforms to enable architecture profiling and software validation in parallel with hardware development. Problems can be found and resolved early in the design cycle, rather than waiting for prototypes to be built or silicon to be delivered. Its solutions are based on open industry standards, including SystemC, SCML, Verilog, VHDL, OSCI TLM, MDI, CASI, CADI and CAPI. Carbon's customers are systems, semiconductor, and IP companies that focus on communications, networking, and consumer electronics. Carbon is headquartered at 125 Nagog Park, Acton, Mass., 01720. Telephone: (978) 264-7300. Facsimile: (978) 264-9990. Email: info@carbondesignsystems.com. Web site: www.carbondesignsystems.com.

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Contact:

Public Relations for Carbon Design Systems
Nanette Collins, 617-437-1822
nanette@nvc.com