



Core Avionics & Industrial Inc.
400 North Tampa Street, Suite 2850
Tampa, Florida 33602

CoreAVI enables Wind River VxWorks MILS with advanced OpenGL graphics supporting multiple independent levels of security in a multicore system architecture

On display at MILCOM 2014 (Military Communications Conference) to be held October 6-8, 2014 at the Baltimore Convention Center in Wind River's booth #643, CoreAVI, Curtiss-Wright, ANSYS, and Wind River demonstrate advanced graphics capabilities based on their fully integrated multicore, multiple secure partition solutions running on Wind River VxWorks MILS Platform.

Tampa, Florida, U.S. October 2, 2014. CoreAVI announces the availability of embedded OpenGL graphics drivers for Wind River® VxWorks® MILS Platform. CoreAVI's suite of OpenGL graphics drivers enables the efficient use of concurrent graphics applications, with multiple levels of security, running in guest operating systems on multicore processors. The integration of CoreAVI's OpenGL driver suite, Curtiss-Wright Defense Solutions' VPX6-187 single board computer (SBC) and XMC-715 graphics modules, and ANSYS® SCADE Display HMI tool with Wind River VxWorks MILS provides the foundation for defense, aerospace, automotive, medical and industrial manufacturers to rapidly and cost effectively deploy high assurance and multilevel secure systems.

Supported on a wide range of graphics processors, CoreAVI's suite of OpenGL graphics and video drivers enables high performance graphics in a variety of symmetric (SMP) and asymmetric (AMP) multi-processing operating system configurations. For security-critical avionics systems, CoreAVI offers complete DO-178C (up to DAL A) certification evidence and its solutions are aligned with the latest Future Airborne Capability Environment (FACE™) Technical Standard.

"Wind River VxWorks MILS enables reduction of size, weight, power through hardware consolidation, and streamlines the development of platforms using multiple levels of security and providing cross-domain capabilities. The integration with products from CoreAVI, Curtiss-Wright and ANSYS further enable multiple independent levels of security-critical video and advanced graphical applications to coexist on a single hardware platform," says Paul Chen, Senior Director of Product Management at Wind River.

"Building on a vast array of security and safety critical programs with its partners, ANSYS is proud to enhance its HMI graphics support for Wind River VxWorks MILS. Fully integrated and optimized with CoreAVI's OpenGL graphics drivers, the joint product suites are ready to be used in a wide range of security- and safety-critical systems, including RTCA DO-178C, EN50128, and IEC 61508 standards," says Vincent Rossignol, SCADE Display Product Manager at ANSYS.

"Curtiss-Wright has been working closely with Wind River, CoreAVI and Esterel to optimize performance and validate their product compatibility," said Lynn Bamford, Senior Vice President and General Manager, Defense Solutions division. "We continue to build new designs and invest in integration with our key partners to ease product certification, speed development and to collaboratively deliver solutions that require secure, deterministic and high performance for mission critical systems."

"The complete integration of proven technologies to support VxWorks MILS is the cornerstone to enabling customers with lower risk, lower costs and quicker time to market," says Lee Melatti, President of CoreAVI. "We invest and actively work with our key partners to ensure customers are provided with a complete working solution to achieve their performance, safety and security requirements."

Media Inquiries

Core Avionics & Industrial Inc.
sales@coreavi.com



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About Core Avionics & Industrial Inc.

Core Avionics & Industrial Inc. (“CoreAVI”), a Channel One company, provides “program ready” embedded graphics and video processors and advanced graphics solutions to mil-aero and high reliability embedded systems manufacturers. CoreAVI’s products include 20+ year component supply management, temperature-screened versions of the AMD Radeon™ graphics processors and embedded graphics driver support for real time operating systems and safety critical platforms. CoreAVI’s program support includes complete RTCA DO-178C / EUROCAE ED-12C Level A safety critical certification evidence for safety critical environments. www.coreavi.com

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