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Media Alert

Xilinx Developer Forum (XDF)

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Lynx shows hypervisor infrastructure for certifiably safe and secure system development

SAN JOSE, Calif., Oct. 2, 2018 (Xilinx Developer Forum) – Lynx Software Technologies, a world leader in the embedded software market is addressing IIoT and automotive designers at the Xilinx Developer Forum (XDF). Lynx provides solutions for achieving the security integral to the safety development of certifiable critical systems on Xilinx Zynq UltraScale+ devices, providing a pathway to mixed criticality capabilities on the breakthrough Xilinx adaptive compute acceleration platform (ACAP). Lynx will demonstrate this capability live at XDF.

 "Lynx is your high assurance system partner providing hypervisor infrastructure for certifiably safe and secure system development on the exciting platforms that Xilinx is bringing to market," says Simon George, director of system software and solution marketing, Xilinx. "Adaptive platforms need safe and secure separation to achieve certifiability. At XDF, Lynx will be showing how to achieve demonstrable separation in mixed criticality system designs that integrate adaptive system capabilities. These capabilities are critical to the delivery of the next-generation of automotive, IIoT and other designs."

Lee Cresswell, vice president of worldwide sales at Lynx Software Technologies added, "We are excited about the new Adaptive Platforms emerging from Xilinx. In order to be fully applied to critical infrastructure and automotive applications, they will need safe and secure separation to achieve safety certifiability. Lynx demonstration at XDF will show clearly that these challenges can be resolved with the right hypervisor infrastructure."

Lynx will be demonstrating its revolutionary hypervisor infrastructure for distributed on-chip system management on the Zynq UltraScale+ MPSoC using the use case of an industrial

application. It consists of three compute elements all hosted and securely partitioned on the LynxSecure separation kernel -- an Operator Workstation, a Robotic Controller, and a "Prove-It" Workstation. The Operator Workstation architecture is securely partitioned, isolating trusted design tools from internal and external threats. The Robotic Controller features a robust partitioned real-time architecture and actuates the directly attached robotic arm, conveyor belt, and image recognition system. As opposed to traditional RTOS-based platforms, all robotic controls are implemented in independent bare-metal applications in order to minimize attack vectors and reduce non-deterministic behavior. The "Prove-it" Workstation inspects real-time behavior of the robotic control system and serves as a malicious endpoint on the network to simulate attacks, evidencing the resiliency of the robotic controller design.

LynxSecure is the multi-core software infrastructure selected by Bosch and ETAS for next generation Adaptive Autosar systems and it's widely used in avionics, autonomous vehicle and train control systems.

About Lynx Software Technologies
Through precision engineering, Lynx Software Technologies develops advanced kernel technology that empowers innovative companies to create the safest, most secure systems in the world. Lynx is committed to providing the highest levels of safety and security in its Virtualization and RTOS products. The LynxOS®-178 RTOS is the first and only time- and space-partitioned, FAA-accepted Reusable Software Component (RSC). The latest product in the portfolio, the award-winning LynxSecure offers a secure separation kernel and embedded hypervisor that forms a platform for the development of highly secure systems. Since it was established in 1988, Lynx Software Technologies has created technology that has been successfully deployed in thousands of designs and millions of products made by leading automotive, communications, avionics, aerospace, medical, and transportation companies. Lynx headquarters are located in San Jose, CA.

For more information, visit www.lynx.com.

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