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PRESS RELEASE

Enea Unveils Integrated Linux Solution for Xilinx UltraScale+ at Xilinx Developer Forum

Accelerated Linux simplifies development of high-performance real-time applications

Stockholm, Sweden, and San Jose, Calif., Oct. 2, 2018 (Xilinx Developer Forum) - Enea (NASDAQ OMX Nordic: ENEA) has announced an extended version of its Accelerated Linux, fully integrating all processing units on the Xilinx UltraScale+ range of devices, at the Xilinx Developer Forum (XDF) 2018. XDF connects software developers and system designers to the deep expertise of Xilinx engineers, partners, and industry leaders.

The solution adds a software level integration to the UltraScale+ System-on-Chip (SoC), providing the means to efficiently control, communicate and transfer large amounts of data between applications running on the different processing units. This greatly simplifies software projects and reduces the time spent on platform development.

Accelerated Linux vastly improves Linux' real-time characteristics by using a high-performance real-time executive running side-by-side with Linux on the ARM Cortex-A53 cluster. Linux and the real-time domain are integrated through high speed IPC, big data transfer between domains, and access to shared resources such as file systems. Building on this framework, the extended solution showcased at XDF takes advantage of the open source OpenAMP project for communication between Accelerated Linux and FreeRTOS running on the ARM Cortex-R5s. It also allows access to the FPGA on the SoC.

"The UltraScale+ SoC from Xilinx is a very capable and flexible device that needs a sophisticated runtime environment to efficiently connect the different processing units. This solution shows our deep expertise in embedded real-time solutions and our capability to deliver complete high-performance solutions also for very complex systems," said Adrian Leufvén, SVP OS Business Unit Enea.

"With demands on enhanced performance, greater flexibility and scalability, and shorter time-to-market, the availability of integrated solutions that simplify application development is a must," said Simon George, Director of System Software and SoC Solution Marketing, Xilinx. "We are very happy to have Enea support our UltraScale+ devices."

At XDF Silicon Valley, Enea will show live demonstrations of the extended Accelerated Linux, showing latency benchmarks, OpenAMP communication between Accelerated Linux and FreeRTOS, big data transfer between cores over shared memory, and program load of the FPGA.

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For additional updates from XDF, follow Xilinx on Twitter at @XilinxInc or via the hashtag #XDF2018.

Further Reading
Enea Accelerated Linux: https://www.enea.com/products/operating-systems/real-time-accelerated-linux/
Xilinx Developer Forum (XDF): https://www.xilinx.com/products/design-tools/developer-forum/silicon-valley.html

Media Contact

Erik Larsson, SVP Marketing & Communication, Enea
Phone: +33 1 70 81 19 00
E-mail: erik.larsson@enea.com

About Enea
Enea develops the software foundation for the connected society. We provide solutions for mobile traffic optimization, subscriber data management, network virtualization, traffic classification, embedded operating systems, and professional services. Solution vendors, systems integrators, and service providers use Enea to create new world-leading networking products and services. More than 3 billion people around the globe already rely on Enea technologies in their daily lives. Enea is listed on Nasdaq Stockholm. For more information: www.enea.com