eSOL's eCROS Real-Time OS-Based Software Platform Now Supports Freescale's Vybrid™ Devices

Ensures high real-time capability, reliability, and Linux compatibility on the Vybrid controller solution system

Freescale Technology Forum Americas 2012, San Antonio, Texas. June 20, 2012 – eSOL, a leading developer of real-time embedded software solutions, today announced that its eCROS real-time OS-based integrated software platform now supports Vybrid devices from Freescale Semiconductor. Freescale's Vybrid controller solution devices integrate an ARM® Cortex™-A5 applications core with an ARM Cortex™-M4 microcontroller core. eSOL will demonstrate eCROS for Vybrid controller solutions at the eSOL demonstration pedestal, #1014, at the Freescale Technology Forum Americas 2012, June 18-21 in San Antonio, Texas. eCROS for Vybrid devices is scheduled for release in the third quarter of 2012.

eCROS supports an ARM Cortex-A5 core on Vybrid devices. The eT-Kernel real-time OS, the core of eCROS, enables easy reuse of Linux software assets on Vybrid devices, reducing application development time and cost. The eT-Kernel RTOS also provides Vybrid controller solutions with high real-time capability and reliability. The eCROS platform is used in a wide variety of embedded systems including automotive, aerospace, industrial, and consumer devices.

Vybrid devices are asymmetrical multi-core processors that can combine rich applications requiring high-resolution graphical displays (such as human-machine interfaces and

multimedia functions) and connectivity with real-time determinism. These types of functions used to require multiple devices. A Vybrid device also incorporates a variety of peripheral controllers such as Ethernet and USB communication interfaces, display controllers, and an OpenVG graphical processing unit. Vybrid devices are designed for use in building automation, industrial equipment, medical devices, and appliances, and they are compatible with Freescale's ARM core-incorporated i.MX applications processors.

"eSOL is a strategically important real-time OS vendor for Freescale in the Vybrid ecosystem," said John Weil, Segment Marketing & Operations manager for Freescale's Industrial Microcontroller & Multi-market business. "We expect much of the high real-time capability and reliability of eT-Kernel to meet a wide variety of requests from developers. eSOL's advanced technical skills and the eCROS software provides developers a seamless solution across our Vybrid and i.MX ARM core-based processor portfolios, resulting in significant software development savings for our mutual customers."

"eCROS for Vybrid controller solutions was developed based on wide experience supporting various ARM cores including ARM Cortex-A9 MPCore, ARM Cortex-A8, ARM11/9 and by working closely with Freescale," said Nobuyuki Ueyama, Executive Vice President of eSOL. "eCROS allows Vybrid controller solution developers to create applications with fast real-time response and high reliability, while making the best use of the features and performance of an ARM core."

eSOL also intends to support the ARM Cortex-M4 and peripheral controllers on Vybrid devices in response to market needs.

eCROS benefits

- The eT-Kernel RTOS consists of four scalable profiles including a POSIX-compliant RTOS with high Linux compatibility. As a result, developers are able to select the appropriate RTOS depending on the scale and features of each application.
- The eBinder IDE, tightly coupled with eT-Kernel, facilitates development of high-quality applications. The eBinder IDE provides development tools and functions including the ARM genuine compiler, and includes development from build, configuration, and debug to system-level verification.
- eCROS also includes middleware components and professional services.

About eSOL

eSOL is a leading embedded software developer that enables customers to accelerate development of applications based on high-end embedded processors, including multi-core. eSOL's advanced, scalable, multi-profiled real-time operating systems are tightly integrated with development tools and middleware components to create flexible development platforms used by OEMs and ODMs worldwide in competitive vertical markets such as automotive, consumer electronics, industrial and medical equipment, and aerospace. Founded in 1975, eSOL is based in Tokyo, Japan.
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