eSOL's eCROS Real-Time OS-Based Software Platform Extends CPU Support to ARM® Cortex™-R Series

Tokyo, Japan. November 07, 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 the ARM® Cortex™-R processor series.

Incorporating eSOL's eT-Kernel real-time OS, the core of eCROS, ensures proven real-time capability and high reliability in the ARM Cortex-R processor series-based systems, which are designed to meet the requirements of demanding real-time applications including automotive, factory automation, industrial equipment, and hard disk drives (HDDs). With Cortex-R processor series support, eSOL now offers complete solutions for all Cortex (Cortex-A, Cortex-R and Cortex-M) processors.

eSOL plans to release eCROS for Cortex-R series—including CPU support for Cortex-R4 and Cortex-R5—in the fourth quarter of 2012. eSOL will demonstrate eCROS support for Versatile™ CoreTile development boards for ARM Cortex-R4 at booth D-17 at the Embedded Technology 2012 Conference and Exhibition November 14-16 in Yokohama, Japan.

 "We welcome eSOL's eCROS real-time OS-based software platform support for ARM Cortex-R processor series," said Richard York, Director of Embedded Processor Products, ARM. "eSOL is one of ARM's strategic partners with deep expertise and knowledge of ARM processors. The adoption of Cortex-R series processors in markets such as automotive and industrial will be strongly supported by eSOL's comprehensive OS solutions for software developers."

The cost-effective ARM Cortex-R processor series offers superior energy savings in demanding real-time applications with strict response time requirements such as HDD controllers, wireless baseband processors, and electrical control units for automotive equipment.

Software developers working with the Cortex-R processor series can now take advantage of eSOL's highly reliable, proven eCROS with its eT-Kernel, the eBinder development tools, middleware (including network protocol stacks, and file systems with USB stacks), all supported by professional services. The eT-Kernel ensures high reliability, utilizing the Cortex-R processor-series' lockstep mechanism to produce fault-tolerant systems. Developers can set the respective cores on a dual-core Cortex-R5 CPU to run independently or build asymmetric multiprocessing (AMP) systems by installing two eT-Kernels on each core.

"eSOL's enhanced real-time OS solution for ARM Cortex-R processor series-based systems will satisfy software developers who demand stringent real-time capability in automotive, FA and industrial equipment systems," said Nobuyuki Ueyama, Executive Vice President of eSOL. "eCROS has supported various ARM cores including ARM Cortex-A9 MPCore™, Cortex-A8, and the ARM11 and ARM9 families. We believe eCROS is ideal for fault-tolerant systems that make excellent use of the ARM Cortex-R processor series' lockstep function."

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.

For more information, please visit http://www.esol.com/