

SEGGER introduces J-Scope, data visualization for J-Link

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SEGGER announces J-Scope, their new data visualization software for the industry standard J-Link family of debug probes. J-Scope is an application to analyze and visualize data on a microcontroller in real-time, while the target is running. It provides a real-time, accurate representation of the sampled variables enabling the engineer to better understand the embedded application.



J-Scope is based on the newly introduced J-Link HSS (High Speed Sampling) feature, which makes it possible to continuously sample variables at extremely high speeds without affecting the real-time nature of the embedded device. Using the standard debug interface, it does not require any extra resources on the target such as memory, CPU time or extra pins.

The periodic sampling is done autonomously by the J-Link. This allows considerably higher sampling rates and more precise timing than other debug probes. J-Scope uses this feature to read the target variable data and display both the value and an oscilloscope-like trace.

Examples of where HSS and J-Scope can be used is in monitoring network stack loads, or monitoring a 3-phase 50 Hz signal on a motor control application.

“The release of J-Scope makes it possible to display and analyze real-time behavior in a unique new way. A number of our clients have asked for this feature. Previously, those who needed to monitor variables have had to rework their application and attempt to use other communication interfaces to transmit this data with varying success. Having HSS available through the debug probe and also open through the J-Link SDK makes monitoring variables a lot easier” says Alexander Gruener, SEGGER J-Link Product Manager.

J-Scope supports all CPUs with some form of background memory read, including most Cortex-M CPUs, and Renesas RX. More information on J-Scope can be found at <http://www.segger.com/j-link-j-scope.html>

J-Scope is available free of charge as a part of the J-Link Software and Documentation Pack version 4.90a and later, and can be downloaded at <http://segger.com/jlink-software.html>

About J-Link

The SEGGER J-Link is the most popular family of debug probes on the market. It is tool chain independent and works with free GDB-based tool chains such as emIDE and Eclipse, as well as commercial IDEs from: Atmel, Atollic, Coocox, Cosmic, Freescale, IAR, KEIL, Mentor Graphics, Microchip, Python, Rowley, Renesas, Tasking and others. With the J-Link family, investments in the debug probe are preserved when changing compiler or even CPU architecture.

J-Link supports multiple CPU families, such as ARM 7, 9, 11, Cortex-M, Cortex-R, Cortex-A as well as Renesas RX100, RX200, RX600 and Microchip PIC32; there is no need to buy a new J-Link or new license when switching to a different yet supported CPU family or tool-chain. SEGGER is also continuously adding support for additional cores, which in most cases, only requires a software/firmware update. Unlimited free updates are included with even the baseline model of the J-Link family. SEGGER is excited to continue advanced development of its cutting edge embedded tool solutions to be utilized with pretty much any development environment you choose. All J-Links are fully compatible to each other, so an upgrade from a lower-end model to a higher-end model is a matter of a simple plug-and-play.

Full product specifications are available at: <http://segger.com/jlink.html>

The J-Link-Software is available at: http://segger.com/download_jlink.html

U.S. On-Line Web Shop: <http://shop-us.segger.com>

Online Shop (Europe, Asia, Africa): <http://shop.segger.com>



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About SEGGER

SEGGER Microcontroller develops and distributes hardware and software development tools as well as software components for embedded systems. An "embedded system" is one in which a microprocessor and associated components are incorporated into a device helping to accomplish difficult and complex tasks in products such as cell phones, medical instruments, instrument clusters, measurement instruments, satellite radios, digital cameras etc.

SEGGER was founded in 1997, is privately held, and is growing steadily. Based in Hilden with distributors in all continents and a local office in Massachusetts, SEGGER offers its full product range worldwide.

SEGGER software products include: embOS (RTOS), emWin (GUI), emFile (File System), emUSB (USB host and device stack) and embOS/IP (TCP/IP stack). With the experience in programming efficiently on embedded systems, SEGGER created highly integrated, cost-effective programming and development tools, such as the Flasher (stand-alone flash programmer) and the industry leading J-Link/J-Trace emulator.

SEGGER cuts software development time for embedded applications by offering affordable, high quality, flexible and easy-to-use tools and software components allowing developers to focus on their applications. Find out more at <http://www.segger.com>.

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