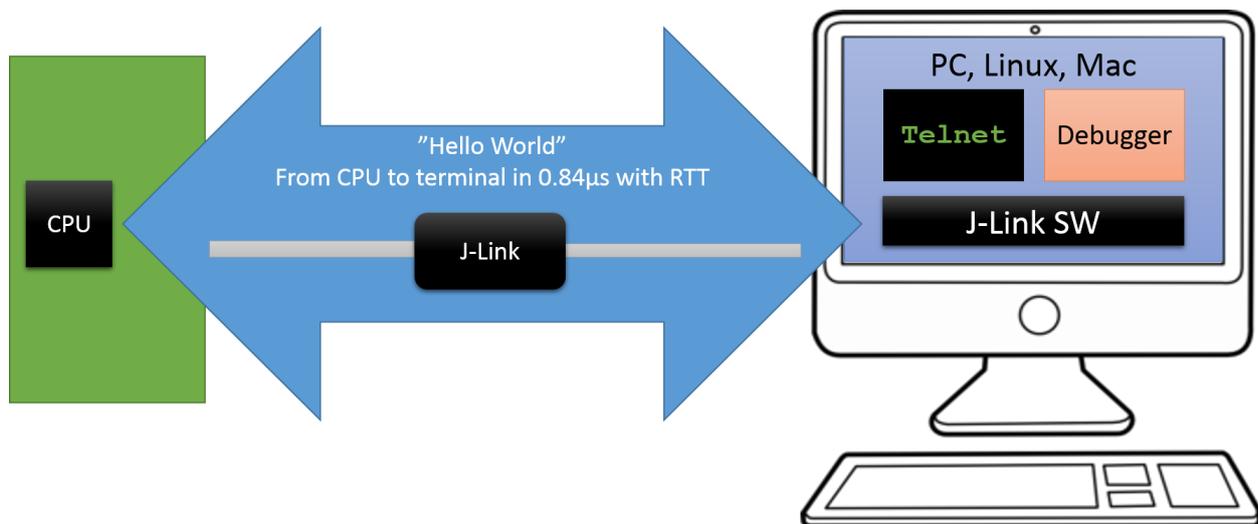


World's first real time terminal with SEGGER J-Link

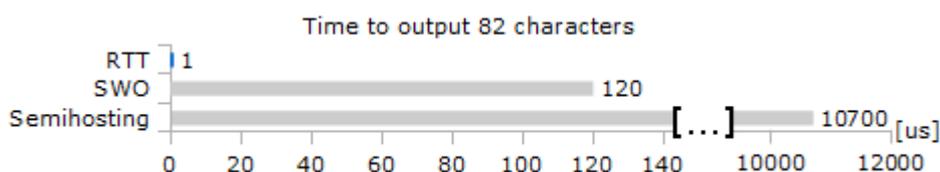
Hilden, Germany – July 30th, 2014

SEGGER announces J-Link Real Time Terminal (RTT) which speeds up bidirectional communication between the target system and the development computer by at least an order of magnitude. This new technology brings printf-style debugging and system verification functionality to any application. The only thing needed to use J-Link RTT is a CPU with a debug interface that allows background memory access; no extra pins are required.



J-Link RTT outputs messages to a host terminal without halting the target system. It takes less than a microsecond to output a typical one line text message on a Cortex-M or Renesas RX system. As this communication is bidirectional, values may also be passed in from the development computer to update the running target application.

J-Link RTT allows accurate multichannel communication in real time, using existing debug signals. The target implementation is written in ANSI C, and can be used alongside any IDE/Debugger using a simple Telnet application. It is also possible to override the standard printf() functions to take advantage of J-Link RTT. This reduces the time taken for a printf() via SWO by a factor of at least 100, and traditional breakpoint/semihosting type systems by a factor of 10000 or more.



Debug information may now be gathered while the application is performing time critical, real time tasks. Gathering debug information no longer has to affect the behavior of the target system which compounds or even masks bugs.

"Until now, verbose communication needed an additional hardware interface which was significantly slower. J-Link RTT makes this task a lot easier and, in some cases, possible for the first time," says Alexander Gruener, SEGGER J-Link Product Manager.

J-Link RTT will work with any current J-Link probe.

More information and source code download can be found here:

<http://www.segger.com/jlink-real-time-terminal.html>

More information on J-Link is available at: <http://www.segger.com/jlink.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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