

Instruction Tracing with SEGGER J-Link/J-Trace and Atollic TrueStudio

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SEGGER's J-Trace debug probe facilitates ETM instruction trace within Atollic TrueStudio (v4.1 and newer). If the target microcontroller has an internal trace buffer (ETB), this limited tracing also works when using any one of the J-Link/J-Trace models available from SEGGER.

ETM instruction trace allows the developer to look at the history of program execution. This is useful, for example, when a program crash is caused by an unexpected jump. In this case the developer can track back to where the program execution left the intended flow of the program.

"By adding instruction trace, Atollic's TrueStudio becomes one of the top players in the tool-chain market for embedded systems", says Dirk Akemann, Marketing Manager at SEGGER.

"SEGGER is the leading provider of debug probes and the combination of Atollic TrueSTUDIO and J-Trace provides engineers market-leading debugging and programming tools", says Magnus Unemyr, Atollic. "Additionally, the SEGGER debug probes enable the Atollic TrueVERIFIER unit test system, and the Atollic TrueANALYZER test quality measurement system, to test the embedded application in the target board, thus providing developers with an unrivalled tool solution for improving the software quality."



About J-Trace

J-Trace is the top model of the J-Link family adding instruction tracing capabilities using ARM's Embedded Trace Macrocell (ETM). The J-Trace models have an internal trace memory. Their direct interface to the ETM allows maximum trace frequency.

About J-Link

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

J-Link supports multiple CPU families, such as ARM 7, 9, 11, Cortex-M0, M0+, M1, M3, M4, R4, A5, A8, A9 as well as Renesas RX610, 620, 62N, 62T, 630, 631, 63N; there is typically no need to buy a new J-Link or new license when switching to a different 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. 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.

Different architectures, same debug probe!

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

The J-Link-Software is available at: http://www.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's intention is to cut 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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