

SEGGER's embOSView uses J-Link debug interface for Cortex-M-targets

Hilden, Germany – July 6th, 2010 – SEGGER Microcontroller published a new version of embOS and the included profiling tool embOSView for the ARM Cortex-M0/M1/M3/M4 platforms. The kernel information and profiling data for embOSView can now be captured through the J-Link

via JTAG or SWD similar to the solution via DCC for ARM7/9-targets. embOSView not only uses the same debug interface as the debugger, but it also can run in parallel.

In contrast to SWO or UART based solutions, embOSView can be used with any Cortex-M-hardware using the existing debug connection. Therefore the target hardware can be designed with a minimal pin count for the debug connection.

Compared with SWO based kernel view solutions, using the JTAG/SWDconnection has the benefit of a bidirectional connection. Therefore embOSView only communicates with the target, if absolutely necessary.

📸 embOSView V3.8.	2g							
<u>File View Setup</u>	<u>Trace</u> <u>W</u> indow	2						
Task list							-	• *
P Id	Name	Status	Data	Timeout	Stack	CPULoad	Run count	Time slice
40 0x20009C28 30 0x20009BE4 20 0x20009BA0 10 0x20009924	IP_RxTask IP_Task IP_WebServer Webserver Child	Wait Event object Wait Event object Wait Event object Wait Event object	0x20009438 0x20009030 0x20008778 0x200067F0	5 (326155)	272 / 1024 @ 0x20009074 556 / 2048 @ 0x20008874 328 / 4096 @ 0x20007874 2252 / 2680 @ 0x20006384		21535 76535 31999 598	0/2 0/2 0/2 0/2
		Y	PU load vs. time		2232 / 2000 @ 022000304	13.33 %		
System variable								• *
LibMode OS_Time OS_NumTasks OS_Status OS_pActiveTask OS_pCurrentTask SysStack IntStack TraceBuffer	3 200 / 512 @ 0x200	7/LDP 26086 4 0.K. 0000 0000 ≡	RxTask 2_Task 2_Webserver 2_Webserver Chil					
🔀 Terminal								
			Bu	tec: 68200 / 1	83947 Packets: 6752 / 6752		(Mem) SWD	coocdi 1000

embOSView is delivered as part of embOS, the highly efficient, easy to use RTOS from SEGGER. embOS is a high-performance real time OS that has been optimized for minimum memory consumption in both RAM and ROM, as well as high speed and versatility. It supports fully nested interrupts for zero interrupt latency and an unlimited number of tasks without the need for compile-time configuration. embOS is a priority-controlled multi-tasking system, designed as an embedded operating system for real-time applications for all popular CPUs. It provides a migration path with identical APIs across all platforms.

"We constantly strive to improve our products. Allowing the use of embOSView via the JTAG/SWD-connection gives our customers the possibility to create a more cost effective hardware without sacrificing debugging options", says Dirk Akemann, Marketing Manager at SEGGER.

embOS is provided as full source code and comes with a simple licensing model without royalties. Full product specifications and a trial version are available at: http://www.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, has been profitable since its inception, 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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