

SEGGER releases compression system tailored for embedded devices

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SEGGER is announcing the launch of emCompress, a compression tool for embedded systems to reduce the required storage on the target for boot images, HTML files or other static data. emCompress automatically picks the best algorithm for the memory available. It reduces flash memory sizes, costs and data transmission time.

The main application for compression is to reduce the amount of space needed for static data. Examples for static data are FPGA images which are copied to the FPGA during startup, firmware images which are copied from data memory to run in instruction RAM, firmware updates which are sent to the device in compressed form, and language packs for different languages or HTML pages.

To achieve the reduction of memory needs, the data is compressed on a PC and either linked to the application or stored in the permanent memory of the target device.

Decompression takes place on the target side, whenever it is needed and with little RAM used. Meanwhile the compressed version is stored in the flash of the target. The ROM consumption of emCompress is tiny, compared to the additional space that is available to the development engineer for new firmware features.

emCompress is capable of reducing highly redundant data, such as HTML pages, to no more than 10% of the original size - it offers a unique group mode, which boosts compression ratios when compressing many small files such as HTML content for embedded web servers.

The SEGGER solution concentrates on the restricted RAM resources available for decompression in embedded systems. Thus, emCompress is delivered with numerous compression algorithms that can be parameterized to tune decompressor RAM. Decompression can be done into memory or in streamed mode.

emCompress comes with the compression application to run on Windows and the source code for all decompressors. It is written in ANSI C and is both compiler and target independent. emCompress can be licensed with a one-time payment tailored to commercial requirements.

More information on emCompress is available here:

<https://www.segger.com/emcompress.html>

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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 emSecure, a unique software to generate and verify digital signatures, and the TLS-solution emSSL, SEGGER is also offering software for the growing field of data and product security.

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 www.segger.com.

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