

emCompress-ToGo – New software brings compression to even the smallest Embedded Computer System

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SEGGER announces SMASHv2, a new lossless compression algorithm tailored to resource constrained systems, boosting performance of Embedded Systems. The software allows both compression and decompression on any Embedded System, in real time, even with no work RAM available. In comparison to SMASHv1, SMASHv2 delivers even better compression, easier use (only one parameter for compression) and smaller code.



“More storage, more bandwidth resulting in higher transmission speeds, less cost. This software can make almost every Embedded System even more efficient. Before we developed it, I did not even think it was possible.” says Rainer Herbertz, Senior Software Engineer at SEGGER. “Before emCompress-ToGo, most microcontroller-based applications could not utilize compression because available algorithms required too much memory or computing power. Those days are over.”

emCompress-ToGo has the performance, efficiency and flexibility to be used for various purposes, such as:

- Storing firmware images or FPGA bitstreams compressed with SMASHv2 to significantly reduce ROM requirements
- Allowing wireless updating through compression
- Reducing the size of stored data for data loggers, and thus the required bandwidth for transferring the data to the processing servers
- Compressing streams of data

One algorithm fits all: Great compression rates are achieved even on small blocks of data. The API is very flexible, with compression and decompression directly to and from memory or via application-provided functions. The compressor requires only about 1 KB of ROM, decompression about half of that. Trial versions for Windows as well as any Cortex-M based target system are available for download.

All code has been developed by and can be licensed from SEGGER. It is not encumbered by any Open Source license.

For more information, please go to:

<https://www.segger.com/products/compression/emcompress/emcompress-togo/>

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About SEGGER

SEGGER Microcontroller is a full-range supplier of software, hardware and development tools for embedded systems. The company offers support throughout the whole development process with affordable, high quality, flexible and easy-to use tools and components. SEGGER offers solutions for secure communication as well as data and product security, meeting the needs of the rapidly evolving Internet of Things (IoT). The company was founded by Rolf Segger in 1992, is privately held, and is growing steadily. Headquartered in Germany with US offices in the Boston area as well as Silicon Valley and distributors on every continent, SEGGER offers its full product range worldwide. For additional information, visit: www.segger.com

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