SEGGER Embedded Studio V5 minimizes code size

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The newly released Embedded Studio V5 for Arm processors comes with SEGGER's Compiler, Linker, and Runtime and Floating-Point libraries. All components are designed from the ground up for Embedded Systems and work seamlessly to generate extremely small programs.

A program which blinks an LED (a "blinky") on a typical Cortex-M microcontroller can be written in C or C++, with a total size of less than 100 bytes. Terminal output (printf) can be done in real time using RTT, SWO, or semihosting with host-side formatting, keeping even the standard "Hello world" program to no more than a few hundred bytes.

Like SEGGER's SystemView and Ozone, Embedded Studio can be used on Windows, Linux and macOS in keeping with the SEGGER cross-platform philosophy.

"This new version of Embedded Studio is groundbreaking. I have never seen a toolchain that produces such small programs, especially out-of-the-box, created by the project generator. Our compiler uses clang with a new code generator developed by SEGGER. In balanced optimization mode, it produces code that is as small as it is fast. Our linker, startup code, Runtime library, debugger, everything is tuned to get the most out of a microcontroller." said Rolf Segger, founder of SEGGER. "Version 5 outperforms even my own expectations."

Embedded Studio can be downloaded without registration and used free of charge for educational and non-commercial purposes, as well as evaluated without code size, feature, or time limit, on all platforms.

For more information about Embedded Studio or to download and use it, please go to: https://www.segger.com/embeddedstudio

For more information on a blinky in less than 100 bytes, please see the SEGGER blog article: Every byte counts – the 100-byte blinky challenge.

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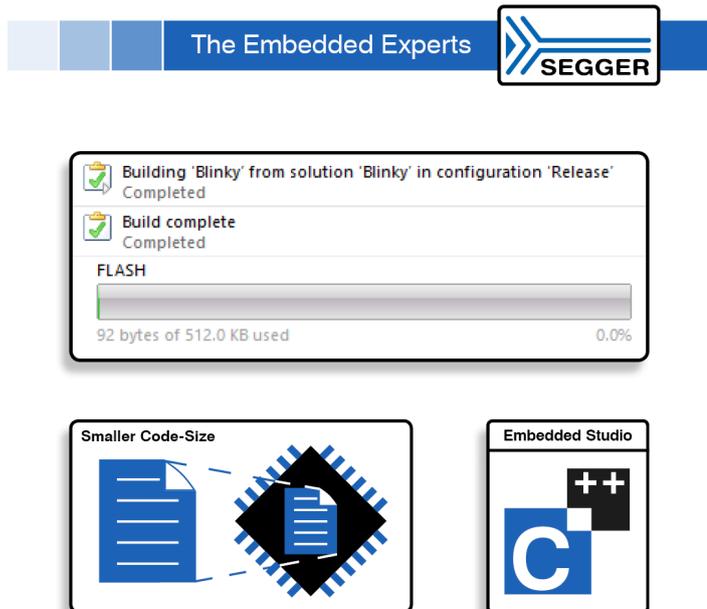
About SEGGER

SEGGER Microcontroller has over twenty-five years of experience in Embedded Computer Systems, producing state-of-the-art software libraries, and offering a full set of hardware tools (for development and production) and software tools.

SEGGER provides an RTOS plus a complete spectrum of software libraries including communication, security, data compression and storage, user interface software and more. Using SEGGER software libraries gives developers a head start, benefiting from decades of experience in the industry.

SEGGER's professional software libraries and tools for Embedded System development are designed for simple usage and are optimized for the requirements imposed by resource-constrained embedded systems. The company also supports the entire development process with affordable, high-quality, flexible, easy-to-use tools.

The company was founded by Rolf Segger in 1992, is privately held, and is growing steadily. SEGGER also has a U.S. office in the Boston area and branch operations in Silicon Valley and the UK, plus distributors on most continents, making SEGGER's full product range available worldwide.

Why SEGGER?

In short, SEGGER has a full set of tools for embedded systems, offers support through the entire development process, and has decades of experience as the Embedded Experts.

In addition, SEGGER software is not covered by an open-source or required-attribution license and can be integrated in any commercial or proprietary product, without the obligation to disclose the combined source.

Finally, SEGGER offers stability in an often volatile industry making SEGGER a very reliable partner for long-term relationships.

For additional information please visit: www.segger.com

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