

Nuclei Studio IDE now with SEGGER's emRun runtime library for RISC-V

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SEGGER and Nuclei System Technology, a China-based RISC-V processor IP and solution company, announce that the Nuclei Studio IDE now comes integrated with SEGGER's emRun runtime library. As a result of this cooperation, executables produced by the Nuclei toolchain using emRun are both smaller and faster.

[emRun](#) is a complete C runtime library for use with any toolchain. Written from the ground up specifically for embedded devices, it is designed to provide high chip performance with the smallest possible memory footprint. In many cases, the reduced code size makes it possible to use smaller microcontrollers and less on-chip memory, which can lead to significant cost savings.

Included in emRun is [emFloat](#), a complete, fully optimized and verified floating-point library for embedded systems. emFloat's arithmetic routines are hand-coded in assembly language and optimized for small code size and high execution speed.

"This is another great step forward for RISC-V and for SEGGER in China," says Guowei (Lionheart) Chen, Executive Director & General Manager, SEGGER Microcontroller China Co., Ltd. "We believe we have the ideal components for Silicon Vendors, especially small and mid-sized companies, that want to start with a perfect, affordable solution. We are proud to be jointly enhancing the RISC-V ecosystem with Nuclei."

Huaqi Fang, Software Director of the CoreTech department at Nuclei, says: "SEGGER has made a huge and lasting contribution to the development of the RISC-V ecosystem and is one of the key players broadening RISC-V usage. The integration of the emRun library will help Nuclei Studio to progress and to provide more possibilities, especially in embedded MCU scenarios. It provides excellent code size and performance, both in terms of efficiency and cost. With the continuous development of the RISC-V ecosystem and more iterative upgrades of our software platform, we also look forward to more cooperation opportunities between the two parties in the future."

emRun's value and performance has been widely proven as part of SEGGER's [Embedded Studio IDE](#), which can also be used to easily evaluate this performance, free of charge.



For more information on emRun, please visit:

www.segger.com/emrun

About Nuclei System Technology

Founded in 2018, Nuclei System Technology is one of the first companies in China to build an ecosystem based on the RISC-V open instruction set architecture and take the lead in industrialized applications. Starting from scratch, the company has put out a number of series of RISC-V CPU IP products and related solutions, covering various applications from low power consumption to high performance need. While maintaining the rapid growth of business and revenue, a positive cycle of technology has formed, and a portfolio of heavyweight industry customers and field application cases has been built, covering 5G communications, industrial control, artificial intelligence, automotive electronics, and the Internet of Things. Including storage, MCU, network security and other fields, nearly 100 customers have officially authorized the use of Nuclei products.

For more details, please visit: www.nucleisys.com

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About SEGGER

SEGGER Microcontroller GmbH has three decades of experience in Embedded Systems, producing cutting-edge [RTOS and Software Libraries](#), J-Link and J-Trace [debug and trace probes](#), a line of [Flasher In-System Programmers](#) and [software development tools](#).

SEGGER's all-in-one solution [emPower OS](#) provides an RTOS plus a complete spectrum of software libraries including communication, security, data compression and storage, user interface software and more. Using emPower OS gives developers a head start, benefiting from decades of experience in the industry.

SEGGER's professional embedded development software and tools are simple in design, optimized for embedded systems, and support the entire embedded system development process through affordable, high-quality, flexible and 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, Shanghai and the UK, plus distributors on most continents, making SEGGER's full product range available worldwide.

For more information on SEGGER, please visit www.segger.com.

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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