

SEGGER's Ozone offers enhanced debugging with RISC-V Semihosting

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SEGGER has expanded the capabilities of its debugger and performance analyzer, Ozone, by adding semihosting support for debugging RISC-V applications. This feature now enables RISC-V developers to use I/O to perform debugging tasks on the embedded system directly accessible by the host system, without the need for complex hardware setups.

By using the host's resources, developers can easily send debug messages, manage files, and perform input/output operations. Ozone's RISC-V Semihosting supports developers in interacting more efficiently with their target devices during development.

"The current approval of the RISC-V Semihosting specification is a significant milestone, because it establishes an official standard for how RISC-V processors can communicate with host systems during development. We are proud that Ozone already fully supports it," says Dirk Akemann, Marketing

Manager at SEGGER. "This immediate support ensures that developers working with RISC-V can take advantage of the benefits of semihosting right away."

Designed specifically for embedded applications, Ozone is known for its speed and ease of use, especially with SEGGER's J-Link and J-Trace family of debug and trace probes.

More than a simple debugger, Ozone's various features, including instruction tracing via J-Trace, live code profiling, and code-coverage analysis, make it a powerful tool for getting full system insight, obtaining verification, finding inefficiencies, and tracking down bugs.

Ozone's user interface is intuitive and fully configurable. All windows can be moved, re-sized, and docked to fit the needs of any developer. The software is available across platforms (Windows, Mac and Linux, Arm, and Intel).

More information about Ozone's RISC-V Semihosting is available on www.segger.com.

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About SEGGER

SEGGER Microcontroller GmbH, founded in 1992, has over 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. SEGGER, with headquarters in Germany, 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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