Renesas Ready Ecosystem Partner Solution

SEGGER SystemView

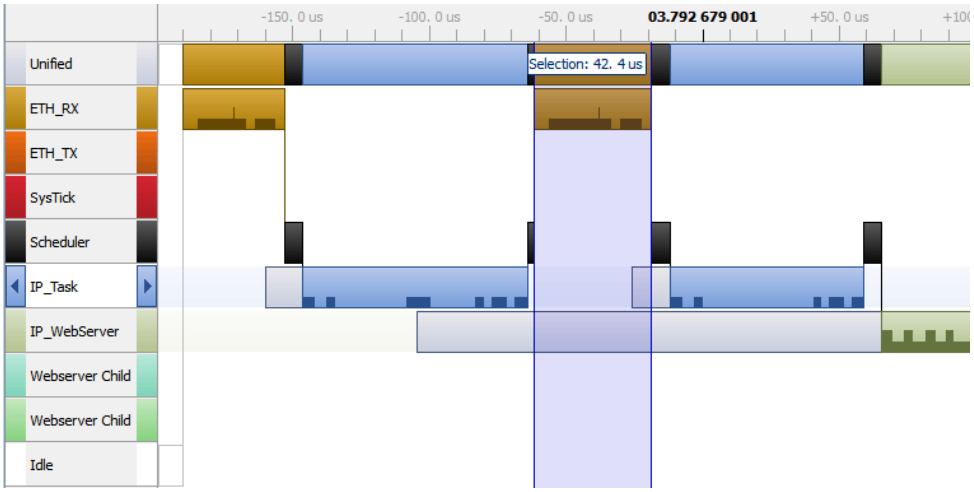
Solution Summary

SEGGER's SystemView is a real-time recording and visualization tool tailored for analyzing and profiling embedded systems. It offers comprehensive insights into runtime behavior, surpassing traditional debuggers by capturing and visualizing data such as tasks, interrupts, timers, and API calls. It is compatible with RA, RX MCUs and RZ MPUs and RISC-V MCUs/MPUs, as well as Renesas Synergy™ Platform MCUs.

Features/Benefits

- DataPlot Window visualizes variables, sensor data, and custom metrics alongside recorded events, offering synchronized views for precise debugging and optimization
- Broad compatibility enables operation with any CPU, RTOS, or bare-metal system
- J-Link, SEGGER RTT (Real-Time Transfer), IP, and UART connection versatile recording methods enable monitoring of systems with multiple CPU cores on a single chip

Diagrams/Graphics



Target Markets and Applications

- Energy-saving IoT appliance
- Healthcare
- Home appliance
- Industrial controls
- Smart come

www.segger.com/development-tools/systemview/

2025.09

At SEGGER, we provide a comprehensive suite of tools and software solutions for every stage of creating embedded systems. Our portfolio is organized into five categories perfectly aligning with the workflow of the development process.

Create—Laying the groundwork

Every project requires a solid foundation. SEGGER's efficient software libraries are used to create the application and serve as the building blocks for composing code.

Build—Turning ideas into reality

Once the application code is created, it must be transformed into machine-executable instructions. SEGGER's Embedded Studio, a complete IDE with a flexible toolchain, optimizes speed and resource usage, often lowering project costs.

Debug—Perfecting the application

The debugging process ensures applications are ready for final development steps. SEGGER's market-leading debug and trace probes provide accurate insights, helping optimize the application during test runs.

Verify—Ensuring quality and reliability

No project is complete without thorough verification. SystemView reveals the true runtime behavior of an application, helping developers in ensuring systems perform as intended with powerful profiling and analysis tools.

Program—Delivering the final product

During verification, programming is used to transfer the application to the target hardware and to test it. Once the application is finalized, it is deployed to the intended hardware. Together, the application and hardware become the final product.

Contact us: www.segger.com