

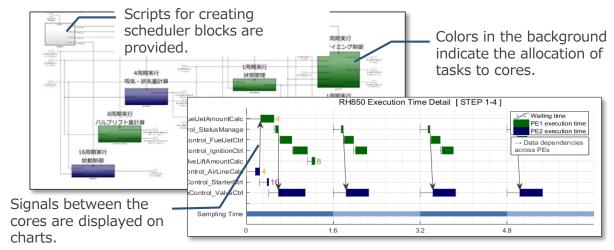
RH850 Model-Based Development Environment Multi-Rate Control (Leading Presentation)

Embedded Target for RH850 Multicore



Outline of the Presentation

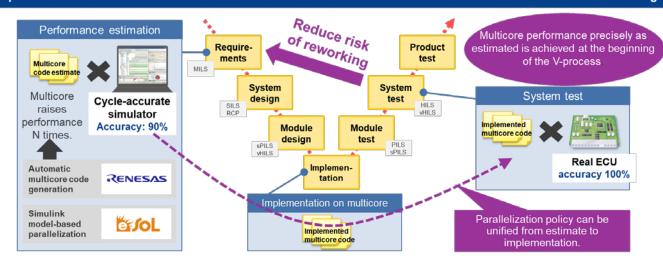
- This tool significantly reduces the burden of developing multicore software to handle multi-rate control.
- It conforms with the *de-facto* standard JMAAB control modeling guidelines for automotive modelbased development.
- Overall operational verification of ECUs in which multiple systems are combined is also possible.



Related Product

• Cycle-accurate simulator for RH850/P1H-C devices in the CS+ integrated development environment (released in the summer of 2018)

Acquire accurate estimate based on MCU information with multicore MBD environment: Reduce risk of reworking



Supporting Software Development for Multi-Rate Control

Multicore Model-Based Environment

Using a Simulink model to verify the execution of multicore RH850 devices prevents the need for reworking in the form of returning to previous processes.

Features

- Automatic creation of multicore code, even for multi-rate control
 Even for multi-rate control models with multiple control periods,
 automatically structuring parallel code in a PILS environment can
 significantly reduce the burden of multicore software development.
- Designing multicore performance at the beginning of the V-process

 The provided Simulink scheduler block, conformant with the JMAAB guidelines, simplifies the evaluation of MCUs with single task systems.
- Verifying the overall operation of ECUs in which multiple systems are combined
 Multicore execution is visualized with the acquisition of accurate

Solutions

Multicore execution is visualized with the acquisition of accurate execution times by running systems with multiple control periods in a highly accurate simulator.

