RENESAS Tool News

The Simulator Debugger for the SuperH RISC engine MCU Family Revised to V.9.10.00

We have revised the simulator debugger for the SuperH RISC engine family of MCUs from V.9.09.00 to V.9.10.00.
This simulator debugger is included in the C/C++ compiler package for the SuperH RISC engine MCU family.
For overviews of the simulator debugger, see:
  https://www.renesas.com/sh_sim
The above URL is one of our global sites.

1. Descriptions of Revision

1.1 Improvements Made

(1) In the break data function, the following conditions have been introduced as data-comparison options:
- greater than the specified value
- less than the specified value
- greater than or equal to the specified value
- less than or equal to the specified value
- within the range between the specified values
- out of the range between the specified values

(2) You can connect the simulator debugger with, and disconnect it from, High-performance Embedded Workshop by clicking the Connect button and the Disconnect button on the toolbar, without switching between session files.

(3) In the simulators for the SH-2A, SH-4A and SH4AL-DSP cpu cores, which are included in the simulator debugger, interrupt functions can be stepped out.

1.2 Made Compatible with Windows 7

The simulator debugger has been made compatible with the 64-bit and 32-bit editions of Windows 7.

1.3 Problem Fixed

Fixed has been the problem that if date is written to address 0x04000000, the content in address 0x00000000 is also rewritten to the same value when any of the following simulators for the SH-4 CPU core is used:
- SH-4 Functional Simulator
- SH-4 Functional Simulator (Little endian)
- SH-4 (SH7750R) Functional Simulator
- SH-4 (SH7750R) Functional Simulator (Little endian)

2. How to Update Your Simulator Debugger

Online update is available free of charge. Note, however, that to update your simulator debugger, you must have installed High-performance Embedded Workshop V.4.07.00 or later. If not, install the High-performance Embedded Workshop in advance. High-performance Embedded Workshop V.4.07.00 can be downloaded from:
   https://www.renesas.com/hew_download
The above URL is one of our global sites.

Then update your simulator debugger in either of the following ways:
(1) Use AutoUpdate Utility. This service will be provided from
    June 10 on.

(2) Download the update program of the product from:
    https://www.renesas.com/sh_sim_download
    Then execute it. This Web site will be opened from June 7.
    The above URL is one of our global sites.

Note that the simulator debugger only is updated in either of the above ways: none of the other components of the compiler package are.