

RENESAS TOOL NEWS on March 16, 2009: 090316/tn1

## A Note on using the Simulator Debuggers for the SuperH RISC engine and the H8SX, H8S, and H8 MCU Families

Please take note of the following problem in using the simulator debuggers for the SuperH RISC engine and the H8SX, H8S, and H8 MCU families:

- With setting the clock rate for the peripheral functions

The above simulator debuggers are included with the compiler package for the SuperH RISC engine and the H8SX, H8S, and H8 MCU families respectively.

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### 1. Products and Versions Concerned

- The Simulator debugger for the SuperH RISC engine family V.9.08.00
- The Simulator debugger for the H8SX, H8S, and H8 families V.5.07.00

To see the version number of the simulator debugger you are using, perform the following procedure:

- (1) In the High-performance Embedded Workshop, open the Tools menu and select the Administration command. The Administration dialog box appears.
- (2) Out of the Registered Components list in the Administration dialog box, select the simulator debugger you are using; then click the Properties button. The Properties dialog box opens.
- (3) In the Information tab of this dialog box, the version number of yours will be shown.

### 2. Description

When you start the simulator debugger, it provides the Set Simulator dialog box. In the Set Peripheral Function Simulation tab of this dialog box, you cannot set the clock rate for the peripheral functions to any

value except 1.

When you use in the simulator debugger any session which is created in the previous version and in which the clock rate for the peripheral functions has been set to a value other than 1, this problem is irrelevant if you do not allow the Set Simulator dialog box to appear when starting the simulator debugger. (See NOTE.) However, if you allow the Set Simulator dialog box to appear and click OK, the value of the clock rate will be changed to 1. (Clicking Cancel, not OK, will maintain the original value.)

**NOTE:** If you select the Don't show this dialog box check box in the Set Simulator dialog box, the dialog box does not appear from the next time of starting the debugger.

### 3. Workaround

If you set the clock rate for the peripheral functions to a value other than 1, perform the following steps:

- (1) Enter the necessary items into the Set Simulator dialog box that appears when starting the simulator debugger and select the Don't show this dialog box check box. Then click OK.
- (2) On the View menu, select Command Line to display the Command Line window. In this window, use the P\_CLOCK\_RATE command to change the clock rate.

Explanation of the P\_CLOCK\_RATE command:

Syntax: P\_CLOCK\_RATE [<rate>]

Usable parameters: 1, 2, 3, 4, 6, 8, 12, 16, 24, and 32

If no parameter is typed, the current clock rate is displayed.

If you want to make changes to the settings of the set peripheral function simulation the next time, perform the following steps:

- (3) On the Setup menu, select Options to display the Options dialog box.
- (4) In this dialog box, select the Display Set Simulator dialog box at start up check box in the Confirmation tab; then exit the simulator debugger.
- (5) Restart the simulator debugger and perform the steps (1) and (2).

### 4. Schedule of Fixing the Problem

We plan to fix this problem in the next versions of the products,  
which are as follows:

- The Simulator debugger for the SuperH RISC engine family V.9.09.00
- The Simulator debugger for the H8SX, H8S, and H8 family V.5.08.00

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