RENESAS Tool News

The E200F Emulator Software Specific to the R0E0200F0EMU00M Revised to V.1.03 Release 00

The emulator software specific to the E200F emulator R0E0200F0EMU00 has been revised to V.1.03 Release 00. The R0E0200F0EMU00 emulator is used for the SH7780 and SH-Mobile series, SuperH RISC engine family of MCUs.

1. **Product and Versions Concerned**

   The E200F emulator software V.1.00 Release 00, V.1.01 Release 00, and V.1.02 Release 00 specific to the R0E0200F0EMU00 emulator are concerned. The R0E0200F0EMU00 emulator is used for the SH7780 series (SH-4A CPU-cored) and SH-Mobile series (SH4AL-DSP CPU-cored), SuperH RISC engine family.

2. **Descriptions**

   2.1 Integrated Development Environment Included

   The High-performance Embedded Workshop V.4 has been included with the software package, so the emulator software is supported by the AutoUpdate utility of the High-performance Embedded Workshop.
   For this utility, see RENESAS TOOL NEWS "The High-performance Embedded Workshop, an Integrated Development Environment, Provided with the AutoUpdate Utility" (No. RSO-HEW_1-050301D), issued on March 1, 2005.

   2.2 Emulation Memory Supported

   Emulation memory is available when the external bus trace unit (optional) is used. This function enables the user to use the memory in the external bus trace unit instead of the 4-megabyte memory continuously mapped

on the user system. If emulation memory used, the maximum number of traceable cycles is 8192 (otherwise 262,144).

How to set emulation memory is as follows:

(1) Invoke the High-performance Embedded Workshop and you see the Function select dialog box. Then Select "Emulation Memory (4M,Trace 8192 cycles)" in the Bus Board Mode setting list.

(2) In the High-performance Embedded Workshop, open the Setup menu and select the Emulator -> Memory Resource command. The Memory Mapping dialog box appears.

(3) Out of the items of memory mapping information in the dialog box, select the ones you want to change, and set the beginning address, bus width, and attribute of the area used as emulation memory.
For details, see Section 5.1.8 "Changing the Memory Map Setting" in "SH-4A, SH4AL-DSP E200F Emulator User's Manual Rev.3.00."

2.3   Coverage Function Supported
The Coverage function collects the code coverage information (CO coverage) on the user-designated address area and displays the results.

How to set the Coverage function is as follows:

(1) Invoke the High-performance Embedded Workshop and you see the Function select dialog box. Then Select "Coverage (4M)" in the Main board mode setting list and close the dialog box.

(2) The Coverage Acquisition Range Setting dialog box opens automatically. Then type the beginning address of the address area on which you want to collect coverage information into the Coverage acquisition start address text box.
For details, see Section 5.11 "Acquiring Code Coverage" in "SH-4A, SH4AL-DSP E200F Emulator User's Manual Rev.3.00."

3. **How to Update Your Product**

Free-of-charge online update is available.

The procedure is as follows:

(1) Download the update program (a ZIP file) from the Software Download Site.

(2) Decompress the downloaded ZIP file to obtain the install program (a setup.exe file) and execute it.

4. **Notice**

If the install program is executed in the system where the High-performance Embedded Workshop V.4.00.01 or earlier resides, it will be updated to V.4.00.02.