RENESAS Tool News

RENESAS TOOL NEWS on January 1, 2006: RSO-E8-060101D

The Emulator Software for the E8 Emulator Revised to V.2.06 Release 00

We have revised the emulator software for the E8 on-chip debugging emulator from V.2.04 Release 00 to V.2.06 Release 00.

1. Descriptions of Revision

1.1 Supported MCUs Increased

Eleven members of the M16C/6N group, M16C/60 series of MCUs have been added to the support line. They are as follows:
M306N4FC, M306N4FG, M306N5FC,
M306NKFH, M306NMFH, M306NKFJ, M306NMFJ,
M306NLFH, M306NNFH, M306NLFJ, and M306NNFJ

1.2 High-performance Embedded Workshop Updated

The High-performance Embedded Workshop included with the revised software has been updated from V.4.00.02 to V.4.00.03.
For details of the revision of the IDE to V.4.00.03, see RENESAS TOOL NEWS No. RSO-HEW-051001D, issued on October 1, 2005.

1.3 Emulator Debuggers Improved

The emulator software includes the following emulator debuggers:

- R8C/Tiny E8 emulator debugger V.2.02.00
- M16C/Tiny, M16C/62P E8 emulator debugger V.1.02.00
- H8 Tiny/Super Low Power E8 emulator debugger V.1.01.01
- M32C/80 E8 emulator debugger V.1.01.00

These emulator debuggers have been improved as described below.

1.3.1 In the R8C/Tiny E8; M16C/Tiny, M16C/62P E8; and M32C/80 E8 Emulator Debuggers

(1) User programs are downloaded into target systems much faster.

(2) Step execution is also performed at higher speed.

(3) The time-out period has been reduced.

1.3.2 In the H8 Tiny/Super Low Power E8 Emulator Debugger

The minimum value that can be typed into the System Clock dialog box* has been changed from 2 to 1 MHz. This change is only applied to the case where any of the following is selected as the target MCU:

H8/38076RF, H8/38086RF, H8/38327F, and H8/38347F

* After you switch to the session for using the E8 emulator in the High-performance Embedded Workshop, select the Connect command from the Debug menu; then the Select Emulator mode, the Power Supply, and the System Clock dialog box open in this order.

1.4 Problems Fixed

The following problems have been fixed.

1.4.1 In All the Emulator Debuggers (in those listed in Section 1.3)

Problem: When object files written in the IEEE695 format are loaded into the E8 or E7 emulator, and inline functions in these files are stepped over by the emulator, the High-performance Embedded Workshop may be shut down abnormally.

For details, see RENESAS TOOL NEWS No. RSO-E7-051116D, issued on November 16, 2005.

1.4.2 In the R8C/Tiny E8 Emulator Debugger

Problem: When the debugger is invoked in the

"Does not download emulator firmware" mode with any member of the R8C/15 or R8C/17 series selected as the target MCU, the user program cannot properly be loaded into the target system, and the further operations become impossible.

1.4.3 In the H8 Tiny/Super Low Power E8 Emulator Debugger
Problem: When any member of the H8/36077F group is targeted for debugging, a verification error arises if the value placed in the RCCR register is changed in the Memory or Command window of the High-performance Embedded Workshop.

1.4.4 In the M32C/80 E8 Emulator Debugger
Problem: If a value in memory is referenced or a write is made to memory during execution of the user program, the content of the A0 register is replaced with a wrong value.

2. How to Update Your Software

Free-of-charge online update is available. If you are using the software, download the update program from the download site, then execute it.

NOTICE*
If the update program is executed in the system where the High-performance Embedded Workshop V.4.00.02 or earlier resides, it will be updated to V.4.00.03.
