

RENESAS TOOL NEWS on August 1, 2005: RSO-E10A-USB-050801D

The E10A-USB Emulator Software Revised to V.2.00 Release 03

We have revised the emulator software for the E10A-USB emulator from V.2.00 Release 01 to V.2.00 Release 03.

(The E10A-USB emulator, whose type names are HS0005KCU01H and HS0005KCU02H, emulates the SuperH RISC engine, H8S, and H8SX families of MCUs.)

1. Product Concerned

The emulator software V.2.00 Release 01 and earlier for the E10A-USB emulator (HS0005KCU01H and HS0005KCU02H)

2. Descriptions of Revision

2.1 MCUs Concerned

The MCUs in the SH7206 group, SH7200 series, SuperH RISC engine family are concerned with this revision.

2.2 Problems Fixed

The four problems encountered when MCUs in the SH7200 group, SH7200 series, SuperH RISC engine family are targeted for debugging have been resolved.

For details, see RENESAS TOOL NEWS NO. RSO-E200F_2-050401D, "A Note on Using the E200F and E10A-USB Emulators for the SH-2A Series of MCUs" issued on April 1, 2005.

and RENESAS TOOL NEWS NO. RSO-E200F_2-050616D, "Notes on Using the E200F and E10A-USB Emulator Software Packages" issued on June 16, 2005.

3. A Problem Arising in the SH7206 Group Targeted for Debugging

If you use PC breakpoints (software breaks), enable the user stack using the SH2A_SBSTK

command before setting PC breakpoints. Otherwise, the contents of the R0 register may be set to incorrect values when PC break events are triggered.

If enabled, the user stack consumes memory 4 bytes more than if not when a PC break occurs. So set the value R15 of the stack pointer appropriately in advance.

As the user stack is disabled by default, enable it as shown in Example below. For details of the SH2A_SBSTK command, see the help file.

Example of enabling the user stack:

```
-----  
>SH2A_SBSTK enable  
-----
```

4. How to Update Yours

Free-of-charge online update is available. The procedure is as follows:

- (1) Download the update program from **HERE**.
- (2) Decompress the downloaded ZIP file to obtain the install program (setup.exe file). Then execute it.
- (3) For the E10A-USB, set up the emulator software (execute the Setup Tool for E10A-USB Emulator program).

5. Notices

- (1) The install program obtained in 4-(2) above cannot change the device group you are using to another one.
- (2) If the install program is executed in the system where the High-performance Embedded Workshop V.4.00.00 or earlier resides, it will be updated to V.4.00.01.

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