RENESAS Tool News

A Note on Using
the High-performance Embedded Workshop

Please take note of the following problem in using the High-performance Embedded Workshop:

- On loading load modules created in the Intel HEX format

1. **Versions Concerned**

   The High-performance Embedded Workshop V.2.0--V.4.00.03
   (The High-performance Embedded Workshop is bundled with the software products such as compilers that it manages.)

2. **Description**

   If address records* of segments are contained in a load module created in the Intel HEX format, the load module cannot be loaded into the correct physical addresses of the memory on the target MCU.

   * To check for the address record of a segment, follow these steps:

   (1) Open the load module by the text editor.

   (2) If the seventh and eighth characters next to the colon (:) at the left end of a line are 0 and 2 respectively, the line represents the address record of a segment. (The combination of the seventh and eighth characters represent a record type.

3. **Conditions**

   This problem occurs if the product concerned is used together with the following software products:

   (1)   The simulator debugger included with the C/C++ compiler package V.7.0B--V.9.00 Release 03 for the SuperH RISC engine family

   (2)   The simulator debugger included with the C/C++ compiler package V.5.0--V.6.01 Release 01 for the H8, H8S, and H8SX families

(3)　The emulator software for the E10A-USB emulators (HS0005KCU01H and HS0005KCU02H)

(4)　The E8 emulator software

(5)　The E7 emulator software

(6)　The E6000H emulator software (High-performance Embedded Workshop version only)

(7)　The E6000 emulator software (High-performance Embedded Workshop version only)

(8)　The E10A emulator software (High-performance Embedded Workshop version only)

(9)　The E10T emulator software (High-performance Embedded Workshop version only)

(10)　The emulator software for the E10T-USB emulator HS0005TCU01H

(11)　The emulator software for the E200F emulators (R0E0200F0EMU00 and R0E0200F1EMU00)

4. Examples
:02000002F000FD
:100A0000112233445566778899112233445566770D

The first line above represents the address record of a segment; the seventh and eighth characters represent record type 02.
The second line represents a data record of type 00.
Though the data having this data record should be loaded from address 0xF0000 (*1) + 0x0A00 (*2) = 0xF0A00, it is actually loaded from address 0x0A00 (*2) in error.

*1.　　A physical address represented by the address record of a segment

*2.　　An offset address given in a data record

5. Workaround
Don't load any load module involved in this problem into the target but re-create it in the Motorola S format and then load it.

6. Schedule of Fixing the Problem

We plan to fix this problem in the next release of the product.

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