RENESAS Tool News

A Note on Using E8a Emulator Software - With performing single-step execution in 740 E8a Emulator Debugger -

Please take note of the following problem in using the emulator software for the E8a on-chip debugging emulator:

- With performing single-step execution in 740 E8a Emulator Debugger (when MCUs of the 740 family targeted)

1. Product and Versions Concerned

E8a Emulator Software
V.1.00 Release 00 and V.1.00 Release 00A

2. Description

If the line containing the BBC or BBS instruction of the 740 MCU family is single-stepped in the 740 E8a Emulator Debugger included in the product concerned, the program may not halt at the next instruction to be executed but continue running (single-step execution not ended).

3. Conditions

This problem may occur if the following conditions are all satisfied:

(1) The 740 E8a Emulator Debugger included in the product concerned is running.

(2) In the program exists the BBC or BBS instruction used in the ZERO PAGE BIT RELATIVE addressing mode, and a bit stored in memory addresses 80h to FFh is used as a branch condition.

(3) The instruction in (2) above is single-stepped.

Example:

```
-----------------------------------------------------------------
BBC 0, 80h, 0E123h  ; Bit 0 in address 80h used as a branch condition
BBS 0, FFh, 0E123h  ; Bit 0 in address FFh used as a branch condition
-----------------------------------------------------------------
```

4. Workaround

If step execution not ended, press the Stop button of High-performance
Embedded Workshop.
NOTICE:
If the Stop button pressed, the program may not halt at the instruction
to be executed next to the BBC or BBS instruction, but halt at the address
whose instructions were executed at that time.

5. Schedule of Fixing the Problem

This problem has been resolved in E8a Emulator Software V.1.01 Release 00,
which will be released on and after February 6. So use the latest version.
For details of V.1.01 Release 00, see RENESAS TOOL NEWS Document No.
080201/tn4, published on the same date, on the Web page at
   http://tool-support.renesas.com/eng/toolnews/080205/tn4.htm
This site will be opened from February 5 on.