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A Note on Using the E7 Emulator Software --On Single-Step Execution of "for" Statements--

Please take note of the following problem in using the E7 emulator software:

- On single-step execution of "for" statements

1. Versions Concerned

V.2.0.01, V.2.0.02, V.2.1.00, and V.2.3.01

2. Description

Consider that a "for" statement in the C source level is converted to the assembly level, and in the "for" statement exist such C source lines that the information on the top line of a loop body is not output to the *.x30 load module file in the assembly level. If those C source lines are executed in step-in or step-over mode in the High-performance Embedded Workshop, the execution does not terminate, so that the High-performance Embedded Workshop cannot be managed further.

NOTE:

This problem arises only when any of the R8C/Tiny series MCUs is emulated.

Example 1: A portion of the MIX display in the C Source window of the debugger

```
-----  
x = 0;  
for(i=0; ;i++); <== If this line step-executed,  
                  the problem arises.  
0000E024 MOV.W   #0H,-2H[FB] ; Line information of  
                  "for" statement outputted.  
0000E027 ADD.W   #1H,-2H[FB] ; No line information  
0000E02A JMP.B   0E027H      ; Jump to address 0E027h  
-----
```

Example 2: A portion of the MIX display in the C Source window of the debugger

```
-----  
y = 0;  
z = 1;          <== If this line step-executed,  
                the problem arises.  
0000E01B MOV.W  #1H,-2H[FB] ; Line information of  
                the "z = 1;" statement  
for(;;);  
0000E01E JMP.B  0E01EH      ; No line information;  
                looping in this address  
-----
```

3. Workaround

In the C source level, don't execute the C source lines concerned in step-in or step-over mode.

4. Schedule of Fixing the Problem

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

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