Tool News

A Note on Using the real-time OSes HI7000/4, HI7700/4, and HI7750/4

Please take note of the following problem in using the real-time OSes HI7000/4, HI7700/4, and HI7750/4:

- With using the shared stack function

1. Products and Versions Concerned
   (1) The HI7000/4 V1.00r1 through V.2.02 Release 01
       (for the SH-1, SH-2, SH2-DSP, SH2A, and SH2A-FPU CPU cores)
   (2) The HI7700/4 V1.00r1 through V.2.02 Release 00
       (SH-3, SH-3-DSP, and SH4AL-DSP CPU cores)
   (3) The HI7750/4 V1.00r1 through V.2.02 Release 00
       (SH-4 and SH-4A CPU cores)

2. Description
   Consider a task that shares a stack with another using the shared stack
   function. When this task returns from its entry function to close itself,
   it must perform the same operations as when the ext_tsk service call is
   made. However, a jump may be done to an incorrect address.

3. Condition
   This problem occurs if a task that is in the shared stack wait state is
   invoked and then closed. However, the problem does not occur if the task
   is invoked and closed without entering the waiting state.

4. Workaround
   End the task concerned using the ext_tsk service call.

5. Schedule of Fixing the Problem
   We plan to fix this problem in the V.2 products in the next release

of them. However, we are not going to fix it in the V.1 products.

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