RENESAS Tool News

Note on Using Integrated Development Environment CubeSuite+ for V850 Family

When using the CubeSuite+ for the V850 family of MCUs, take note of the following problem:

- With debugger property settings

1. Products Concerned

This problem concerns the following products whose CubeSuite+ common program is V2.01.00:
- C Compiler and IDE for V850 Family
- CubeSuite+ used for the V850 family

To check to see the version number, refer to the following URL:
https://www.renesas.com/cs+_ver

2. Description

User program execution is temporarily stopped by manipulating the Memory panel, Disassemble panel, or Watch panel in some cases even if the Access by stopping execution is set to "No" in the Debug Tool Settings tab.

If the CPU is in the HALT state when execution temporarily stops, the CPU leaves the HALT state.

3. Condition

This problem occurs when the Update display during the execution function is selected or the Memory panel, Disassemble panel, or Watch panel is manipulated while the product concerned is used together with any of the following debug tools.

(1) Applicable Debug Tools
   V850E1 and V850ES cores:
      IECUBE, E1/E20 (NOTE 1), MINICUBE, and MINICUBE2

V850E2 core:
　E1/E20 (NOTE 2) and MINICUBE2

　　NOTE 1: The JTAG connection and serial connection are concerned.
　　NOTE 2: The serial connection is concerned.

　(2) Setting
　　The Access by stopping execution property value is set to "No"
　　under the Access Memory While Running category in
　　the Debug Tool Settings tab.

4. Workaround
　To avoid this problem, execute all of the following:
　(1) Close the Memory panel before starting program execution.
　(2) Do not manipulate the Disassemble panel, such as by scrolling,
　　during program execution.
　(3) Make all settings shown below under the Access Memory While Running
　　category in the Debug Tool Settings tab.
　　- Set the Access by stopping execution property value to "Yes".
　　- Set the Update display during the execution property value to "No".
　　- Set the Access by release HALT mode property value (see NOTE)
　　　to "No".

　　NOTE: The Access by release HALT mode property is displayed
　　　　　only when the target MCU is the V850E1 or V850ES core and
　　　　　the debug tool is IECUBE, E1/E20 with JTAG connection,
　　　　　or MINICUBE.

5. Schedule for Fixing the Problem
　This problem will be fixed in the next version of the CubeSuite+
　common program.