RENESAS Tool News

CubeSuite+ CA78K0R Compiler Revised to V1.70

We have revised CubeSuite+ CA78K0R Compiler from V1.60 to V1.70.

1. Descriptions of Revision

1.1 Increase in the Number of symbols for the Linker

The maximum value for "Number of symbols
(local + public + internally generated)" of the linker was increased.

  Before change: 65,535
  After change: 2,147,483,647

1.2 Enhancement of Function for the RL78-S1 Core

The function for checking instructions in assembly when microcontrollers
with the RL78-S1 core are specified as the target was enhanced.

1.3 Problems Fixed

Nine problems reported in RENESAS TOOL NEWS Document No. 140128/tn1.

- Problem with incorrect code being output for the processing of
  multiple casts of floating-point constants
- Problem with incorrect code being output for processing of
  the near/far qualifier for array pointers
- Problem with incorrect code being output from multiplication,
  division, remainder arithmetic, and indirect reference expressions
- Problem with the assert function not operating normally
- Problem with return of an error when a one-bit-wide bit field is
  used in a conditional expression
- Problem with the conversion of character strings by the strtol and
  strtoul functions producing incorrect numerical values
- Problem with incorrect address reference being made in the case of
  reference to a symbol resolved by the assembler for the RL78-S1 core
- Problem with incorrect code being output for the CALL directive
- Problem with the BR and CALL directives producing errors

For details of these problems, see at:
https://www.renesas.com/search/keyword-search.html#genre=document&q=140128tn1

2. Updating Your Product and Ordering Revised Product

2.1 Updating

Online updating is available free of charge. To update either your commercial edition or evaluation edition of CubeSuite+, use either of the following methods.

If you are using the common program of CubeSuite+ V1.03.00 or earlier, please download and install the evaluation edition of CubeSuite+ V2.01.00 from the following URL:
  https://www.renesas.com/cs+_download
The above URL is one of our global sites.

(1) Use Update Manager
    On the Start menu, select Programs and then Renesas Electronics CubeSuite+ to start the Update Manager.
    This service will be available on and after February 1.

    Note: If your CubeSuite+ has been launched with the
        rapid startup enabled, exit the CubeSuite+ once,
        and then run the Update Manager.
        If the CubeSuite+ is resident in the notification area
        of Windows (system tray) due to rapid startup,
        an error occurs with the following message:

        M0120001
        Installation is suspended because "CubeSuite+W.exe" is
        running.
        It will be resumed next time you start the tool.
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(2) Download the installer of the product from our Web site
    Download CubeSuite+ CA78K0R compiler V1.70 from the following URL:

     https://www.renesas.com/cs+_download
    Then install it.
    The above program will be published on February 5.
    The above URL is one of our global sites.

2.2 Ordering

When ordering, please contact your local Renesas Electronics marketing offices or distributor.

After purchase, update the CubeSuite+ CA78K0R compiler to V1.70 using Method in Article 2.1 above.