

[Upgrade to revision]

R20TS0185EJ0100

Rev.1.00

C Compiler Package for RH850 Family V1.06.00

Jul. 16, 2017

Outline

We will be revising the CC-RH compiler from V1.05.00 to V1.06.00.

1. Product and Versions to Be Updated

CC-RH V1.00.00 to V1.05.00

2. Items Revised

The major revision points are as follows. Note that the features which are only available to users holding a registered license for the Professional edition are indicated as [Professional edition]. For details, refer to the Release Notes at the URL below.

(This information will be available from July 20.)

<https://www.renesas.com/search/keyword-search.html#genre=document&q=r20t4068>

2.1 Improvements to the Feature for Checking Source Code against MISRA-C: 2012 Rules [Professional edition]

The number of MISRA-C: 2012 rules against which source code can be checked has been increased from 103 to 111.

2.2 Synchronization Function Working When Control Registers Are Updated [Professional edition]

A function that inserts synchronization processing has been added at the points where update of RH850 control registers are detected and where multiple control registers are consecutively updated.

2.3 Improved Optimization

We have improved the performance in the generation of code.

2.4 Support for CAN Communication Time Measurement Solution

Option `-insert_dbtag_with_label` has been added, which enables CS+ to use the CAN communication time measurement solution using the E2 emulator. This option is necessary when using the CAN communication time measurement solution. However, when connected to the E2 emulator, CS+ automatically sets the option, so that the user does not have to specify it when building.

2.5 Change of the Output Format of Initial Value Data of Array Types

The format of initial value data of array types being output in the assembly source has been changed so that they are output in one line. This change reduces the analysis time during building for the shorter build time.

2.6 Adding Special Symbols

A format that can be referenced from C source codes has been added for special symbols that the linker generates at the top and end of each section.

2.7 Change of the Link Map File Specification

In the Mapping List in link map files, the ATTRIBUTE field of the reallocation attribute has been added.

If `-show=relocation_attribute` is specified, the reallocation attribute corresponding to the section is displayed.

2.8 End Record Specification of Motorola S-type Files

Linker option `-end_record` (which specifies the end record of Motorola S-type files) has been added. In versions earlier than V1.06.00, an end record was output in accordance with the entry point address. It is now possible to create Motorola S-type files with the specified end record.

2.9 Adding Numbers for Messages Being Output When Evaluation Edition Is Used

For messages output when building with an evaluation edition, No. W0561016 is appended to messages indicating remaining days of the evaluation edition, and No. W0561017 is appended to messages indicating expiry. This allows you to control these messages by -change_message. For example, you can treat them as errors when using an evaluation edition.

2.10 Change of Link Error Message

The file name is output in link error message "F0563102".

2.11 Improvement of the Method of Authenticating Licenses

The license authentication method has been improved to shorten the build time.

2.12 Problem Fixed

The problem regarding the point below has been fixed.

- RENESAS TOOL NEWS, Document No. R20TS0179EJ0100

1. Point for Caution on the #pragma pmodule Extended Language (No.15)

For details about the problem, refer to the URL below.

<https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ts0179>

2.13 Support for Windows

With the expiration of support for Windows Vista, this version does not support Windows Vista.

3. Updating Your Product

3.1 Online Updating

On the Start menu, select Programs and then Renesas Electronics CS+ to start the Update Manager.

This service will be available from July 20.

Note that if you update the product by the above procedure, V2.01.00 of License Manager is also installed.

When you use floating licenses, you also need to download V2.01.00 of Floating License Management Software from the URL below to install the program.

<https://www.renesas.com/rh850-c-download>

3.2 Download the Installer of the Product from Our Web Site

Download the installer from the following URL and install the product.

The installer will be available from July 20.

<https://www.renesas.com/rh850-c-download>

Also download V2.01.00 of License Manager from the URL above to install the program.

When you use floating licenses, you also need to download V2.01.00 of Floating License Management Software from the URL above to install the program.

4. How to Purchase the New Software

For product ordering, contact your local Renesas Electronics marketing office or distributor with the product name and orderable part name.

For product pricing, make inquiries in the same manner.

You can check for product names and orderable part names at the URL below.

https://www.renesas.com/rh850_c

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Jul. 16, 2017	-	First edition issued

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