[Upgrade to revision]

C Compiler Package for RH850 Family V1.05.00

Outline

We will be revising the CC-RH compiler from V1.04.00 to V1.05.00.

1. Product and Versions to Be Updated

CC-RH V1.00.00 to V1.04.00

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 Note at the URL below.

This document will be released on January 20.
https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ut3936

2.1 Support for the Half-Precision Floating-Point Format [Professional edition]

The half-precision floating-point format has been supported. This allows the size of data in applications which contain a large amount of floating-point number data to be reduced.

2.2 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 82 to 103.

2.3 Improved Optimization

We have improved the performance in the generation of code.

2.4 Addition of the Compiler Option of -g_line

The compiler option of -g_line, which improves the accuracy of the source debugging information when the optimization is applied, has been newly added.

2.5 Expansion of the #pragma inline_asm Directive

An expansion has been made so that the .public pseudo instruction can be coded in the function specified by the #pragma inline_asm directive.

2.6 Change to the Specification of Built-in Function __stcw

The return type of the built-in function __stcw has been changed from void type to long type.

2.7 Change to the Specification of Linkage Option -subcommand

The -subcommand option can now be specified in a subcommand file.

2.8 Change to the Specification of Linkage Option -map/-list

A change has been made in the specification of the -map option and -list option so that the application range of the optimization of access to external variables is expanded.

2.9 Method for Authenticating Licenses

The method for authenticating licenses has been changed. To use CC-RH V1.05.00 or later, install V2.00.00 or later of License Manager.

Refer to section 3 for details of installation.

2.10   Problems Fixed

The problems regarding the points below have been fixed.

- RENESAS TOOL NEWS, Document No. R20TS0027EJ0100

    1. Built-in Function __stcw ( ) (No. 10)

For details of the problem, refer to the URL below.
https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ts0027

- RENESAS TOOL NEWS, Document No. R20TS0066EJ0100

    1. Programs which Include Loops that should be Iterated More than Once (No. 12)

For details of the problem, refer to the URL below.
https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ts0066

- RENESAS TOOL NEWS, Document No. R20TS0103EJ0100

    1. Updating of Values of Array Elements, Structure Members, or Union Members Not being Reflected (No. 13)

For details of the problem, refer to the URL below.
https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ts0103

- RENESAS TOOL NEWS, Document No. R20TS0126EJ0100

    1. The Loop That Has the Operation Expression of Which Result is Decremented by One (No.14)

For details of the problem, refer to the URL below.
https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ts0126

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 January 20.)

Note that if you update the product by the above procedure, V2.00.00 of License Manager is also installed.

When you use floating licenses, you also need to download V2.00.00 of Floating License Server from the URL below to install the program.
https://www.renesas.com/rh850-c-download

3.2   Downloading the Installer of the Product from Our Web Site

Download the installer from the following URL and install the product.
(This program will be available from January 20.)
https://www.renesas.com/rh850-c-download

Also download V2.00.00 of License Manager from the URL above to install the program.

When you use floating licenses, you also need to download V2.00.00 of Floating License Server 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 ordering model name.

For product pricing, make inquiries in the same manner.

You can check for product names and ordering model names at the URL below.

https://www.renesas.com/rh850_c

Revision History

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

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■Inquiry

http://www.renesas.com/contact/