[Upgrade to revision]

C/C++ Compiler Package for RX Family V2.08.00

Outline

We will be revising the CC-RX C/C++ compiler package for the RX family from V2.07.00 to V2.08.00.

1. Products and Versions to Be Updated

CC-RX V2.00.00 to V2.07.00

2. Items Revised

The major revision point is 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.

These documents will be available from January 22.

CS+ RX Compiler CC-RX V2.08.00 Release Note
https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ut4229

RX Compiler CC-RX V2.08.00 Release Note
https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ut4230

2.1 Improved Optimization

Optimization such as improvement of code generation for bit operation and elimination of redundant sign extension has been improved.

2.2 Addition of Function to Detect Illegal Indirect Function Calls [Professional edition]

A function to detect indirect function calls to illegal addresses is now supported. This function is useful for improving the security and quality of programs.

2.3 Support for Current Consumption Tuning Solution

The -insert_nop_with_label option to generate objects for the CS + and e^2 studio current consumption tuning solution has been added. This function is supposed to be used through CS+ or e^2 studio and is not directly used by users.

This solution allows you to easily measure dynamically changing current consumption in a user system by simply using the E2 emulator.

2.4 Addition of the Message Level Control Function

The -no_warning option to suppress warning level and information level messages has been added.

2.5 Function to Fix the Record Length of Hex Files

A link option to match the output addresses of an Intel expanded hex file (.hex) and Motorola S type file (.mot) with the specified alignment and perform output with the fixed record length has been added. Since a hex file is always output with a constant record length, efficiency in tasks such as comparison of hex files is improved.

2.6 Extended Upper Limit of Memory Usage

The amount of memory on the host PC that CC-RX can use has been expanded. This expansion allows for building of projects larger than previously possible.

	V2.07.00 or earlier	V2.08.00 or later
32-bit OS	2 G bytes	3 G bytes
64-bit OS	2 G bytes	4 G bytes

2.7 Problems Fixed

The following problems have been fixed.

- RENESAS TOOL NEWS, Document No. R20TS0213EJ0100

　1. Using a goto Statement to Move to a Label in a switch Statement (CCRL#045)

For details about the problem, refer to the following URL:

https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ts0213

- RENESAS TOOL NEWS, Document No. R20TS0264EJ0100

　1. Loop Statements with Loop-Control Variables in Which Constants are Used as the Condition for Ending the Loop (CCRX#048)

For details about the problem, refer to the following URL:

https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ts0264

2.8 Other Modifications

- Correction of an internal error

　A problem which led to an internal error in the compiler when building has been fixed.

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 22.

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/rx-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.
This program will be available from January 22.
https://www.renesas.com/rx_c_download

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

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

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Jan. 16, 2018	-	First edition issued