
[Upgrade to revision]

R20TS0123EJ0100

Rev.1.00

C/C++ Compiler Package for RX Family V2.06.00

Jan. 16, 2017

Outline

We will be revising the CC-RX compiler from V2.05.00 to V2.06.00.

1. Product and Versions to Be Updated

CC-RX V2.00.00 to V2.05.00

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 Note at the URL below.

These documents will be released on January 20.

- CS+ RX Compiler CC-RX V2.06.00 Release Note

<https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ut3944>

- RX Compiler CC-RX V2.06.00 Release Note

<https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ut3943>

2.1 Improved Optimization

We have improved the performance in the generation of code.

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 110.

2.3 Change to the Specification of the Optimizing Linkage Editor Option -map/-list

The -map option enables the optimization of access to external variables. In the past, when the section address was out of the available address range at the first build in which the -map option was specified, it was treated as an error, the build processing was terminated, and the external symbol allocation information file was not created. The specification has been changed in this revision so that even in the situation above, the product continues build processing as far as possible (without assuming an error) and outputs the external symbol allocation information file. The optimization of access to external variables with the -map option has become applicable by this specification change.

Additionally, a change has been made so that when the -map and -list options are specified simultaneously, the symbol information is output to a link map file.

2.4 Change to the Specification of the Optimizing Linkage Editor Option -subcommand

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

2.5 Method for Authenticating Licenses

The method for authenticating licenses has been changed. To use CC-RX V2.06.00 or later, install V2.00.00 or later of License Manager.

Refer to section 3, for details of installation.

2.6 Problems Fixed

The problems regarding the points below have been fixed.

- RENESAS TOOL NEWS, Document No. R20TS0073EJ0100

1. Programs which Include Loops that should be Iterated More than Once (No. 39)
2. Passing an Argument of a Function by Using the Stack (No. 40)

For more information on these problems, refer to the URL below.

<https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ts0073>

- RENESAS TOOL NEWS, Document No. R20TS0122EJ0100

1. Updating of Values of Array Elements, Structure Members, or Union Members Not being Reflected (No. 41)

For more information on the problem, refer to the URL below.

<https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ts0122>

- RENESAS TOOL NEWS, Document No. R20TS0127EJ0100

1. The Loop That Has the Operation Expression of Which Result is Decrement by One (No.42)

For more information on the problem, refer to the URL below.

<https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ts0127>

2.7 Other Modifications

- (1) Output of bit-manipulation instructions

In CC-RX V2.05.00 or earlier, the compiler output bit-manipulation instructions by automatic discrimination in accordance with the optimization level and the contents of source programs. In V2.06.00, users can control such output. For details of the output conditions, refer to the user's manual.

- (2) Correction of the application target of `-noconst_copy`

The problem with not performing constant propagation for the initial value of local variables (when the `-noconst_copy` option is specified) has been fixed.

- (3) 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 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/rx-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/rx-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/rx_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/>

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