

CS+ CC-RX Compiler Revised to V2.03.00

We are revising the CS+ CC-RX Compiler from V2.02.00 to 2.03.00.

1. Description of Revisions

1.1 Improved Optimization

This will improve the performance in the generation of code.

1.2 Handling Re-entrance for the Standard Library

A version of the C standard library which is handled as re-entrant can be created by designating the `-reent` option for the library generator (`lbgrx`).

Creating three low-level functions for the generated C standard library allows the handling of functions of the standard library for the C programming language other than `rand` and `srand` as re-entrant.

1.3 Response in the Form of Inhibiting the Output of Data

by the `.OFFSET` Directive for the Creation of Empty Spaces

We have amended the facility (`-create_unfilled_area` option) to inhibit the output by included `.OFFSET` directives of invalid data (03H) in empty spaces within S-record (`~.mot`) and HEX (`~.hex`) files.

1.4 Addition of Predefined Macros

We will add the following predefined macros.

- C/C++ compiler

`__CCRX__`: This indicates that the code is for compilation by `ccrx` as C/C++ source code.

- Assembler

`__ASRX__`: This indicates that the code is for handling by `asrx` as assembly-language source code.

`__RENESAS__`: This means the assembler is from Renesas Electronics Corporation.

1.5 Changing the Order of the Output of Variables Which are Allocated in

the const Area

We will change the order of the output of variables to sections, when variables with and without initial values are mixed in the area to which those of type const are allocated.

Refer to the following web page for the details.

https://www.renesas.com/rx_c

CC-RX V2.03.00 RX Family C/C++ Compiler User's Manual

11.4.3 V.2.03 and Later Versions (Compatibility with Versions between 1.00 and 2.02)

(1) Const-type Static Variables without Initial Values

1.6 Problems Fixed

(1) The following problems, of which we informed you in RENESAS TOOL NEWS Document No. 141116/tn1, will be fixed:

- Aggregates having initial values (RXC#034)

For details of this problem, see the following page:

<https://www.renesas.com/search/keyword-search.html#genre=document&q=141116tn1>

(2) The following problems, of which we informed you in RENESAS TOOL NEWS Document No. 150201/tn5, will be fixed:

- Point to note regarding static aggregates and unions within a function having initial values of address constant expression. (RXC#035)
- Point to note regarding the use of both judgment of a match and greater or less than for variables (RXC#036)

For details of these problems, see the following page (we intend to publish the information on or shortly after February 5).

<https://www.renesas.com/search/keyword-search.html#genre=document&q=150201tn5>

2. Updating Your Product and Ordering the Revised Product

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

2.1 For CS+ V3.00.00 or Later

(1) Use the update manager

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

This service will be available from February 5.

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

```
-----  
M0120001  
Installation is suspended because "CS+W.exe" is  
running.  
It will be resumed the next time you start the tool.  
-----
```

(2) Download the installer

Download and install CS+ CC-RX V2.03.00 from the following URL:

https://www.renesas.com/cs+_download

The above program will be available from February 5.

2.2 For CubeSuite+ V2.00.00 to 2.02.00

(1) Use the update manager

Update your program by using the method in 2.1 (1) above.

(2) Download the installer

Please download and install the evaluation edition of CS+ V3.00.00, then download and install CS+ CC-RX V2.03.00 from the following URL:

https://www.renesas.com/cs+_download

The above program will be available from February 5.

Since CC-RX V1 for CubeSuite+ and CC-RX V2 for CS+ are different products, you will need to acquire license keys for both of them.

If you do not have product edition of the V2 C/C++ compiler package for the RX family (with IDE), you cannot use the commercial edition of V2 even if you have a license for V1. You can only use it as the evaluation edition. Note that you can still use V1 after you have updated to CC-RX V2 for CS+.

2.3 Ordering

When checking prices or ordering, please contact your local Renesas Electronics marketing office or distributor.

Product name: C/C++ Compiler Package for RX Family (IDE) V2

Order type name: RTCRX0000CL02WDR with medium

RTCRX0000CL02WNR license-only, no media

After purchasing the product, use the method under 2.1 to update the

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