

RX Family C/C++ Compiler Package V2 (without IDE) Revised to V2.03.00

We have revised V2 the RX Family C/C++ Compiler Package (without IDE) from V2.02.00 to 2.03.00.

1. Descriptions of Revision

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

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

- Assembler

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

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

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

2.1 Updating

Download and install the stand-alone version of CC-RX V2.03.00 from the following URL.

https://www.renesas.com/rx_c_download

The above program will be available from February 5.

2.2 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: RTCRX0000CC02WRR with medium
RTCRX0000CC02WNR license-only, no media

Before purchasing, you can evaluate its performance and functionality by using the evaluation edition of this product. To do so, download the evaluation edition from the web site at:

https://www.renesas.com/tool_evaluation

The installer will be available on this site from February 5.

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