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
  __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
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

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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