Outline

We are revising the CC-RL compiler from V1.02.00 to V1.03.00.

1. Product and Versions to Be Updated

CC-RL V1.00.00 to V1.02.00

2. Description of Revision

The following points are to be upgraded. 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 URLs below.

These documents will be released on July 21.

- CS+ RL78 Compiler CC-RL V1.03.00 Release Notes
  https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ut3810
- RL78 Compiler CC-RL V1.03.00 Release Notes
  https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ut3815

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 doubled, from 41 to 82.

2.3 Enhancing the Security of Dynamic Memory Management [Professional edition]

A feature has been added for the detection of illicit operations in the release of heap space.

2.4 Addition of an Option

The –O pipeline option for pipeline optimization has been added.

2.5 Addition of Built-in Functions

We have added built-in functions that generate bit-manipulation instructions in the output.

2.6 Problems Fixed

The problems regarding the points below are fixed.

Renesas Tool News document number 151216/tn5

  External labels defined after conditional assembly control instructions (CCRL#006)

  For details of the problem, refer to the URL below.
  https://www.renesas.com/search/keyword-search.html#genre=document&q=151216tn5

Renesas Tool News document number 160216/tn2

  Designating a member of a packed structure or union in an initializing declaration (CCRL#007)

  For details of the problem, refer to the URL below.
  https://www.renesas.com/search/keyword-search.html#genre=document&q=160216tn2
1. Writing an instruction operand in ways which are not included in the list of instruction operations (CCRL#008)
2. Outputting code which overwrites a register for interrupt handlers (CCRL#009)

For details, refer to the URL below.
https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ts0037

1. Scope of optimization (CCRL#010)

For details of the problem, refer to the URL below.
https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ts0058

2.7 Other Modifications

(1) Correction of debugging information
A problem with C and assembly source code not being displayed correctly during debugging has been corrected.

(2) Correction of an internal error
A problem which led to an internal error in compilation has been corrected.

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 July 21.

3.2 Downloading the Installer
Download the installer from the following URL and install the product:
http://www.renesas.com/cs+ download
The program will be available from July 21.

4. How to Purchase the New Software
To check the price or order the product, contact your local Renesas Electronics marketing office or distributor with the product name and name for ordering.

You can check the product names and names for ordering at the URL below.
http://www.renesas.com/rl78_c
Revision History

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