RENESAS Tool News

Release of RL78 Family C Compiler Package V1

We have released the following two types of V1 of the RL78 family C compiler package.

- RL78 Family C Compiler Package (with IDE) V1

- RL78 Family C Compiler Package (without IDE) V1

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1. Outline of the Product
   We have released a new CC-RL compiler that will dramatically enhance the performance of code for products of the RL78 family.

   This product is provided in two types of package: one includes an integrated development environment (IDE) and the other does not. Also, standard and professional editions of the product are available. The professional edition supports checking against MISRA-C:2004 rules.

   - RL78 Family C Compiler Package (with IDE) V1
     This package includes the CS+ (see "Note 1" below) IDE and can be used in combination with CS+ or from the command line (when not in combination with the IDE).

     This product incorporates the components listed below.
     - CC-RL compiler
     - Assembler
     - Optimizing linkage editor
     - CS+ integrated development environment (including a simulator)

     Note 1: For an outline of CS+, see the URL below.
        https://www.renesas.com/cs+

   - RL78 Family C Compiler Package (without IDE) V1
     This package can be used in combination with the e2 studio (see "Note 2" below) or from the command line (when not in combination with the IDE).

This product includes neither an IDE nor a simulator.

This product incorporates the components listed below.
- CC-RL compiler
- Assembler
- Optimizing linkage editor

Note 2: Supported by e2 studio V4.0 and later.

For an outline of the e2 studio, see the URL below.
https://www.renesas.com/e2studio

For information on the RL78 family C compiler package, see the Web pages
at the URL below.
The information was posted on April 16.
Web site for the C Compiler Package for RL78 Family:
https://www.renesas.com/rl78_c
News Releases:
https://www.renesas.com/about/press-center/news/2015/news20150416.html

2. Features
The RL78 family C compiler package offers the following features.

- Enhanced execution speeds of output code and reduced ROM sizes
(compared to the current CA78K0R compiler) realized through
Renesas' latest compiler optimization techniques
- Support for 64-bit variables: double (RL78-S3 core only) and long long
- Inline expansion of functions
- Acquisition of the addresses of sections (by __sectop and __secend
operators)
- Control of the output of warnings
- Merging string literals
- Compiler option for specifying include files
- Qualification of external variables as volatile
- Checking against MISRA-C:2004 rules (professional edition only)
- Support for porting from other compiler

3. Downloading the Evaluation Edition
Before purchasing the product, you can evaluate its performance and
functionality by using the evaluation edition. To do so, download the
evaluation edition from the Web page at the URL below.
https://www.renesas.com/tool_evaluation
The installer will be available on this page from April 20.

Even if you have a license for V1 of the CA78K0R or CA78K0 RL78 C

compiler (conventional C compiler for RL78, 78K family), the restrictions on the evaluation edition of V1 of the RL78 family C compiler package (CC-RL) will not be lifted, since the latter is a new product with significantly enhanced capabilities.
If you wish to lift the restrictions, please purchase the commercial edition of V1 of the RL78 family C compiler package (CC-RL).

4. Ordering
When ordering, please contact your local Renesas Electronics marketing office or distributor.