

RENESAS TOOL NEWS on February 1, 2014: 140201/tn2

C/C++ Compiler Package for SuperH RISC engine Family Revised to V.9.04 Release 02

We have revised the C/C++ compiler package for SuperH RISC engine family of MCUs from V.9.04 Release 01 to V.9.04 Release 02.

For an overview of the C/C++ compiler package for SuperH RISC engine family, visit the Web site at:

<https://www.renesas.com/shc>

The above URL is one of our global sites.

1. Product to Be Updated

C/C++ Compiler Package for SuperH RISC engine family V.9

2. Descriptions of Revision

2.1 High-performance Embedded Workshop

The High-performance Embedded Workshop included in the compiler package has been updated from V.4.09.00 to V.4.09.01. For details of the update, see RENESAS TOOL NEWS Document No. 120616/tn2 on the Web page at:

<https://www.renesas.com/search/keyword-search.html#genre=document&q=120616tn2>

2.2 Problems Fixed

The following problems have been fixed:

(1) Four problems reported in RENESAS TOOL NEWS Document No. 140201/tn1

They are as follows:

- Problem with accessing the multiple array elements using the same subscript (SHC-0090)
- Problem with using instruction scheduling and intrinsic functions (SHC-0091)
- Problem with inlining a function which has a static variable of the structure type or the union type within a function (SHC-0092)
- Problem with using the standard library function strcpy() (SHC-0093)

For details of these problems, see:

<https://www.renesas.com/search/keyword-search.html#genre=document&q=140201tn1>

- (2) The problem that the C4098 internal error may arise.
- (3) The problems arising in the standard library functions.
 - (3-1) When a character string that is not intended to represent an integer and has L, l, U, or u as its first letter is passed as the first parameter of strtoul(), strtoull(), strtol(), or strtoll(), the initial L, l, U, or u is not recognized as part of the string.
 - (3-2) When the results of the fabs() or fabsf() function are not correct if -endian=little is used with a program which includes a call of the fabs() or fabsf() function.
- (4) The problem where a linkage error might occur when the abs16=bss, abs20=bss, or abs28=bss option is used.
- (5) The problem reported in RENESAS TOOL NEWS Document No. 111213/tn1
 - With selecting build optionsFor details of the problem, see:
<https://www.renesas.com/search/keyword-search.html#genre=document&q=111213tn1>
- (6) The problem reported in RENESAS TOOL NEWS Document No. 120216/tn6
 - With selecting build optionsFor details of the problem, see:
<https://www.renesas.com/search/keyword-search.html#genre=document&q=120216tn6>

2.3 Change of Specifications for the Optimizing Linkage Editor

The specifications were changed so that the optimization (optimize=register) of saving and restoring register data is not activated when the -optimize, -optimize=speed, or -optimize=safe option of the optimizing linkage editor is used.

Make sure to use the -optimize=register option when you wish to enable the optimization of saving and restoring register data in V.9.04 Release 02.

When you wish to use the -optimize=register option in the High-performance Embedded Workshop, select the Other from the drop-down list of the Category under the Link/Library tab in the SuperH RISC engine Standard Toolchain dialog box and then directly enter the option in the User defined options text box.

3. Updating Your Product and Ordering Revised One

3.1 Updating

Online updating is available free of charge. To update yours, use either of the following:

- (1) Use AutoUpdate Utility. This service will be available on and after February 3.
- (2) Download the updating program of the product from the Web site at: https://www.renesas.com/shc_download
Then execute it. The program will be published on this site on February 5.
The above URL is one of our global sites.

3.2 Ordering

When you place an order for the product, supply the following items of information to your local Renesas Technology marketing office or distributor:

Product type: C/C++ compiler package for SuperH RISC engine family

Version No.: V.9.04

Release No.: Release 02

Host OS: Windows(R) 8, Windows(R) 7, Windows Vista(R), and Windows(R)

XP

NOTICE: The 64-bit editions of Windows Vista(R)
and Windows(R) XP are excluded.

For the price of the product, also contact the above marketing office or distributor.

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