

RENESAS TOOL NEWS on April 16, 2008: 080416/tn3

The C Compiler Package for the M16C MCU Series Revised to V.5.44 Release 00

We have revised the C compiler package--M3T-NC30WA--for the M16C MCU series* from V.5.43 Release 00 to V.5.44 Release 00.

*The M16C series is the generic name of the M16C/60, /30, /20, /10, /Tiny, and R8C/Tiny series.

1. Descriptions of Revision

For details, please see the release note included with this product.

1.1 Functions Introduced and Improved

(1) Supported MCUs increased

The following MCU groups have been added to the support line:

- In R8C/Tiny series

R8C/2E, R8C/2F, R8C/2G, R8C/2H, R8C/2J, R8C/2K, R8C/2L

R8C/32A, R8C/33A, and R8C/35A groups

- In M16C/60 series

M16C/64 and M16C/65 groups

(2) Compile option -I improved*

The maximum number of directories that can be specified with compile option -I has been extended from 50 to 256.

* The -I option specifies the directory names of the files specified using preprocessing command [directive] #include.

(3) Assembler Startup program improved

The istack section has been introduced to the Assembler Startup program to debug systems using the E100 emulator.

1.2 Problems Fixed

The following 12 known problems have been fixed:

(1) With using preprocessing command #error

For details see RENESAS TOOL NEWS Document No. 080301/tn2, published on March 1, 2008, at <http://tool-support.renesas.com/eng/toolnews/080301/tn2.htm>

(2) With compiling programs using the -R8C option

For details see RENESAS TOOL NEWS Document No. 080116/tn2, published on January 16, 2008, at <http://tool-support.renesas.com/eng/toolnews/080116/tn2.htm>

(3) With creating projects for the MCUs with 48-KB ROM

in the R8C/2D group

For details see RENESAS TOOL NEWS Document No. 071216/tn7, published on December 16, 2007, at <http://tool-support.renesas.com/eng/toolnews/071216/tn7.htm>

(4) With using the R8C/Tiny MCU series coming with large ROM such as 128 KB or more

For details see RENESAS TOOL NEWS Document No. 070916/tn1, published on September 16, 2007, at <http://tool-support.renesas.com/eng/toolnews/070916/tn1.htm>

(5) With using options to optimize jump instructions at linking

For details see RENESAS TOOL NEWS Document No. 070716/tn2, published on July 16, 2007, at <http://tool-support.renesas.com/eng/toolnews/070716/tn2.htm>

(6) With using preprocessing directive #pragma SECTION

For details see RENESAS TOOL NEWS Document No. 070716/tn3, published on July 16, 2007, at <http://tool-support.renesas.com/eng/toolnews/070716/tn3.htm>

(7) With using C-language startup files

For details see RENESAS TOOL NEWS Document No. 070701/tn4, published on July 1, 2007, at <http://tool-support.renesas.com/eng/toolnews/070701/tn4.htm>

(8) With creating projects for the R8C/24 and R8C/25 groups of MCUs

For details see RENESAS TOOL NEWS Document No. 070601/tn2, published on June 1, 2007, at <http://tool-support.renesas.com/eng/toolnews/070601/tn2.htm>

(9) With creating projects for the R8C/2A, R8C/2B, R8C/2C, and R8C/2D

groups of MCUs

For details see RENESAS TOOL NEWS Document No. 070601/tn3, published on June 1, 2007, at

<http://tool-support.renesas.com/eng/toolnews/070601/tn3.htm>

(10) With adding more than one relocatable file

For details see RENESAS TOOL NEWS Document No. 070416/tn3, published on April 16, 2007, at

<http://tool-support.renesas.com/eng/toolnews/070416/tn3.htm>

(11) With passing arguments to functions via the stack

For details see RENESAS TOOL NEWS Document No. 070316/tn5, published on March 16, 2007, at

<http://tool-support.renesas.com/eng/toolnews/070316/tn5.htm>

(12) With the IDE neglecting build error messages when a real-time OS is being used

For details see RENESAS TOOL NEWS Document No. 080301/tn1, published on March 1, 2008, at

<http://tool-support.renesas.com/eng/toolnews/080301/tn1.htm>

1.3 High-performance Embedded Workshop Updated

The revised compiler package includes High-performance Embedded Workshop V.4.04.01, the latest version. For details of this, see RENESAS TOOL NEWS Document No. 080118/tn1, published on January 18, 2008, at

<http://tool-support.renesas.com/eng/toolnews/080118/tn1.htm>

2. Restrictions

The two problems listed below remain not resolved in the revised product. We plan to fix them in the next release of the product.

(1) With performing right-shift operations

For details see RENESAS TOOL NEWS Document No. 070716/tn4, published on July 16, 2007, at

<http://tool-support.renesas.com/eng/toolnews/070716/tn4.htm>

(2) With using compile option -OSFA (-Ostack_frame_align)

For details see RENESAS TOOL NEWS Document No. 070701/tn5, published on July 1, 2007, at

<http://tool-support.renesas.com/eng/toolnews/070701/tn5.htm>

3. How to Update Your Product and Purchase the Revised One

3.1 How to Update Your Product

Free-of-charge online update is available. Download the installer of the product's update program from the Web site at http://www.renesas.com/nc30wa_download and execute it. This site will be opened from April 21 onward. The above URL is that of our global site (in English).

NOTICE:

AutoUpdate Utility cannot be used for this updating.

3.2 How to Purchase the Revised Product

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

Product Type:	C compiler package for the M16C MCU series
Version No.:	V.5.44
Release No.	Release 00
Host OS:	Windows XP or Windows 2000

For the price of the product and volume purchase discounts, contact the above sales office or distributor.

4. Note on Using SQLint, the MISRA C Rule Checker

If you use the C compiler in combination with SQLint, take note of the following problems.

- With using options "MISRA2004" and "Group definition file"

For details of this, see RENESAS TOOL NEWS Document No. 070901/tn2, published on September 1, 2007, at <http://tool-support.renesas.com/eng/toolnews/070901/tn2.htm>

- With using option -ignore_files_misra

For details of this, see RENESAS TOOL NEWS Document No. 080416/tn2, published on April 16, 2008.

<http://tool-support.renesas.com/eng/toolnews/080416/tn2.htm>

This site will be opened from May 12 onward.

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