

RENESAS TOOL NEWS on June 16, 2007: 070616/tn2

The C/C++ Compiler Package for the M32R MCU Family Revised to V.5.01 Release 00

We have revised the C/C++ compiler package--M3T-CC32R--for the M32R MCU family from V.5.00 Release 00 to V.5.01 Release 00.

1. Descriptions of Revision

1.1 Functions Introduced

The following three items of ISO standard ISO/IEC 9899:1999(ANSI C99) have been introduced:

(1) Designation

This item directly selects the elements that the initializing expression in an array or structure initializes.

(2) `_Pragma` operator

This item puts `#pragma` preprocessor directives on lines under the same condition as calling function-type macros.

(3) Macros with the variable number of arguments

This item defines the function-type macros in which the number of arguments is variable.

1.2 Problems Fixed

The following eight problems have been fixed:

(1) With compiling programs in C/C++ containing inline functions

For details see RENESAS TOOL NEWS Document No. 070416/tn4, published on April 16, 2007.

(2) With compiling programs written in C/C++ language that contain asm functions with the `-cs` option selected

For details see RENESAS TOOL NEWS Document No. 070316/tn3, published on March 16, 2007.

(3) On comparing a pointer with an integer of 0 using the `!=` operator

For details see RENESAS TOOL NEWS Document No. 060416/tn5,

published on April 16, 2006.

(4) On re-linking a relocatable load module file

For details see RENESAS TOOL NEWS Document No. n060316/tn3, published on March 16, 2006.

(5) On constant expressions of integers containing a shift operator whose right operand is an unsigned integer type

For details see RENESAS TOOL NEWS Document No. n060301/tn5, published on March 1, 2006.

(6) With some of the objects in an array being not defined using a class template

(7) With performing a multiplication or remainder operation of the minimum value of a long-type variable by a constant of negative 1 (resulting in an application error of the opt.exe file)

(8) With masking members of a union by bits ranging from 0x80000000 to 0xffffffff (resulting in internal errors)

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

2.1 Free-of-Charge Update

Free-of-charge online update is available if you are using M3T-CC32R V.5.00 Release 00. So download the installer of the product's update program from the Web site, and execute it.

This site will be opened from June 20 on.

2.2 First Ordering

If you place an order for the product, please supply the following items of information to your local Renesas Technology sales office or distributor (for the price of the product, also contact them):

Product Type: The C/C++ compiler package for the M32R family
(M3T-CC32R)

Version No.: V.5.01

Release No.: Release 00

Host OS: Windows XP or Windows 2000

3. How to Purchase the Product

When You are Using a Partner-Made Cross-Tool

When you are using a partner-made cross-tool, you are able to purchase the simulator debugger M3T-RD32RSIM only.

If you place an order for this, please supply the following items of information to your local Renesas Technology sales office or distributor:

Product Type: The simulator debugger for the M32R family

(M3T-PD32RSIM)

Version No.: V.3.01

Release No.: Release 00

Host OS: Windows XP or Windows 2000

*The M3T-PD32RSIM simulator debugger is bundled with M3T-CC32R, so if you are using M3T-CC32R, you need not purchase M3T-PD32RSIM.

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