

RENESAS TOOL NEWS on March 1, 2005: RSO-M3T-NC308WA\_1-050301D

## C Compiler Package M3T-NC308WA Revised to V.5.20 Release 02

We have revised the M3T-NC308WA C-compiler package from V.5.20 Release 1 to V.5.20 Release 02. (This compiler package is used for the M32C/90, M32C/80, and M16C/80 series of MCUs.)

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### 1. Descriptions of Revision

#### 1.1 In High-performance Embedded Workshop

##### 1.1.1 Update

The High-performance Embedded Workshop included with this C compiler package has been updated to V.4.00.00. For details, see RENESAS TOOL NEWS "The High-performance Embedded Workshop, an Integrated Development Environment, Revised to Its V.4.00.00" (Document No. RSO-HEW-050126D), issued on January 26, 2005.

##### 1.1.2 Function Introduced

The linking order of relocatable files has become changeable using GUI when the High-performance Embedded Workshop is operating.

##### 1.1.3 Problems Fixed

The following known problems have been fixed:

- (1) On the tag jump function when build errors arise

For details, see RENESAS TOOL NEWS "A Note on Using Integrated Development Environment High-performance Embedded Workshop--On the Tag Jump Function--" issued on April 1, 2004.

- (2) On using the Import Makefile function

For details, see RENESAS TOOL NEWS "A Note

on Using Integrated Development Environment High-performance Embedded Workshop" issued on June 16, 2004.

- (3) On setting environmental variable TMP  
For details, see RENESAS TOOL NEWS "A Note on Using Integrated Development Environment High-performance Embedded Workshop" issued on September 16, 2004.

## 1.2 In C Compiler

The following known problems have been fixed:

- (1) On a division or remainder operation including a variable or constant of type long long  
For details, see RENESAS TOOL NEWS "A Note on Using C-Compiler Package M3T-NC308WA " issued on April 16, 2004.
- (2) On debug information  
For details, see RENESAS TOOL NEWS "A Note on Using C-Compiler Packages M3T-NC308WA and M3T-NC30WA --On Debug Information--" issued on May 16, 2004.
- (3) On selecting link option "-JOPT"  
For details, see RENESAS TOOL NEWS "A Note on Using C Compiler Packages M3T-NC308WA V.5.20 Release 1 and M3T-NC30WA V.5.30 Release 1 " issued on July 1, 2004.
- (4) On calling the same function in both cases where the controlling expression of an if statement is TRUE and FALSE  
For details, see RENESAS TOOL NEWS "A Note on Using C Compiler Packages M3T-NC308WA and M3T-NC30WA " issued on July 16, 2004.
- (5) On typing three or more successive question marks  
For details, see RENESAS TOOL NEWS "A Note on Using C-Compiler Packages M3T-NC308WA and M3T-NC30WA --On Typing Three or More Successive Question Marks--" issued on August 1, 2004.
- (6) On using options for the SQMlint (a MISRA C rule-checker)  
For details, see RENESAS TOOL NEWS "A Note on

Using C-Compiler Packages M3T-NC308WA and M3T-NC30WA --On Using Options for the SQMlint--" issued on August 1, 2004.

- (7) On reading members of bit fields in an array  
For details, see RENESAS TOOL NEWS "A Note on Using C Compiler Packages M3T-NC308WA and M3T-NC30WA --On Reading Members of Bit Fields in an Array--" issued on September 1, 2004.
- (8) On using the near or far qualifier  
For details, see RENESAS TOOL NEWS "A Note on Using C Compiler Packages M3T-NC308WA and M3T-NC30WA " issued on September 16, 2004.
- (9) On a multiplication between variables of type long long  
For details, see RENESAS TOOL NEWS "A Note on Using C Compiler Package M3T-NC308WA " issued on September 16, 2004.
- (10) On an inline function that returns a value of type `_Bool`  
For details, see RENESAS TOOL NEWS "A Note on Using C-Compiler Packages M3T-NC308WA and M3T-NC30WA " issued on October 1, 2004.
- (11) On using inline functions  
For details, see RENESAS TOOL NEWS "A Note on Using C-Compiler Packages M3T-NC308WA and M3T-NC30WA" issued on December 1, 2004.
- (12) On evaluation of elements of an array in the controlling expression of an if statement  
For details, see RENESAS TOOL NEWS "A Note on Using the M3T-NC308WA and M3T-NC30WA C-Compiler Packages --On Evaluation of Elements of an Array in the Controlling Expression of an If Statement-- " issued on December 16, 2004.
- (13) On evaluation of members of a structure in the controlling expression of an if statement  
For details, see RENESAS TOOL NEWS "A Note on Using the M3T-NC308WA and M3T-NC30WA C-Compiler Packages --On Evaluation of Elements of an Array in the Controlling Expression of an If Statement-- " issued on December 16, 2004.

- (14) On using the `-Ofoward_function_to_inline` (`-OFFTI`) compile option  
For details, see RENESAS TOOL NEWS "A Note on Using the M3T-NC308WA and M3T-NC30WA C-Compiler Packages --On Using the -OFFTI Compile Option-- " issued on December 16, 2004.
- (15) On using the tool for enhancing the Scan All Dependencies function  
For details, see RENESAS TOOL NEWS "A Note on Using C-Compiler Packages M3T-NC308WA and M3T-NC30WA --On Using the Tool for Enhancing the Scan All Dependencies Function-- " issued on February 1, 2005.
- (16) On calling a function declared to be typedef and returning a structure  
For details, see RENESAS TOOL NEWS "A Note on Using C-Compiler Packages M3T-NC308WA and M3T-NC30WA --On Calling a Function Declared to Be typedef and Returning a Structure-- " issued on February 1, 2005.
- (17) On successive statements each of which contains an operation of multiplication, addition, or subtraction between a variable of type float and a floating constant  
For details, see RENESAS TOOL NEWS "A Note on Using C-Compiler Packages M3T-NC308WA and M3T-NC30WA" issued on February 16, 2005.

### 1.3 On the Evaluation Version of the M3T-NC308WA

We are replacing the C-compiler package included with the following products with the evaluation version of the M3T-NC308WA V.5.20 Release 02 successively:

- Starter kit for the M32C/83 and M16C/80 groups (the entry version of the M3T-NC308WA included)
- Compact emulator for the M32C/84, M32C/85, and M32C/86 groups (the entry version of the M3T-NC308WA included)

Depending on the time of delivery, the product you purchased may include the entry version of the M3T-NC308WA. If so, please download the evaluation version of the M3T-NC308WA V.5.20 Release 02 from **HERE**.

Difference between the evaluation and the commercial version of the M3T-NC308WA V.5.20 Release 02

The evaluation version of the M3T-NC308WA V.5.20 Release 02 is provided with the same functionality as the commercial version except that link size will be restricted to 64 Kbytes on and after the 61st day from when you begin using the compiler.

## 2. How to Revise the Current Product and Order the Revised One

### 2.1 Online Revision (without Charge)

Download the revised product from **HERE**.

### 2.2 First Ordering

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

Product Type : M3T-NC308WA

Version No. : V.5.20

Release No. : Release 02

Host OS : Windows XP, Windows Me, Windows 98,  
Windows 2000, or  
Windows NT 4.0

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