

RENESAS TOOL NEWS on March 16, 2004: RSO-M3T-NC30WA-040316D

C Compiler M3T-NC30WA Upgraded to V.5.30 Release 1

We have upgraded the M3T-NC30WA C-compiler (with an assembler and integrated development environment) for the M16C/60, M16C/30, M16C/Tiny, M16C/20, M16C/10, and R8C/Tiny series MCUs from V.5.20 Release 1 to V.5.30 Release 1.

1. Descriptions of Upgrade

1.1 Functions Introduced

(1) The following eight command options have been added:

- * `-fno_switch_table (-fNST)`--Suppresses generation of code using a table jump for a switch statement
- * `-fmake_vector_table (-fMVT)`--Generates variable vector tables automatically.
- * `-fmake_special_table (-fMST)`--Generates special page tables automatically.
- * `-Ofoward_function_to_inline (-OFFTI)`--Performs inline expansion for all the inline functions.
- * `-Wno_used_function (-WNUF)`--Outputs a warning message when a function not yet used in the application program is detected.
- * `-Wstop_at_link (-WSAL)`--Suppresses creation of absolute module files when a warning message is output at linking.
- * `-Wundefined_macro (-WUM)`--Outputs a warning message when a symbol not yet defined as a macro is used in a `#if` statement.
- * `-Oglb_jump (-OGJ)`--Selects the most appropriate jump instruction according to the jump distance at linking

(2) Option `/E`, which enables multiple interrupts, has been added to expanded function `#pragma INTHANDLER` (`#pragma HANDLER`).

1.2 Problems Fixed

The following known problems have been fixed:

- (1) On using the link option "-U"
For details, see RENESAS TOOL NEWS "A Note on Using C Compilers M3T-NC308WA and M3T-NC30WA" issued on September 16, 2003.
- (2) On using the standard library function "strcpy"
For details, see RENESAS TOOL NEWS "A Note on Using C Compiler M3T-NC30WA V.5.20 Release 1" issued on October 1, 2003.
- (3) On the division and remainder operations between constants
For details, see RENESAS TOOL NEWS "A Note on Using C Compilers M3T-NC308WA and M3T-NC30WA" issued on October 16, 2003.
- (4) On using the enhancing patch tool of the Scan All Dependencies function
- (5) On using the Options dialog box
For details of (4) and (5), see RENESAS TOOL NEWS "Notes on Using C Compiler M3T-NC30WA V.5.20 Release 1" issued on October 16, 2003.
- (6) On linking relocatable module files with no sections
For details, see RENESAS TOOL NEWS "A Note on Using C compilers M3T-NC308WA, M3T-NC30WA, and M3T-NC79WA; and Assemblers AS308, AS30, and AS79 --On Linking Relocatable Files--" issued on November 16, 2003.
- (7) On declaring parameters in function definitions
For details, see RENESAS TOOL NEWS "A Note on Using C compilers M3T-NC308WA and M3T-NC30WA --On Declaring Parameters in Function Definitions--" issued on November 16, 2003.
- (8) On function calls using the indirection operator
For details, see RENESAS TOOL NEWS "A Note on Using C compilers M3T-NC308WA and M3T-NC30WA --On Function Calls Using the Indirection Operator--" issued on November 16, 2003.
- (9) On defining array-type variables
For details, see RENESAS TOOL NEWS "A Note on Using C Compilers M3T-NC308WA and M3T-NC30WA" issued on January 16, 2004.
- (10) On referencing members in a union
For details, see RENESAS TOOL NEWS "A Note on Using C Compilers M3T-NC308WA and M3T-NC30WA --On Referencing Members in a Union--" issued on March 1, 2004.
- (11) On using standard library function "strcpy"
For details, see RENESAS TOOL NEWS "A Note on Using C Compiler M3T-NC30WA --On Using Standard Library Function "strcpy"--" issued on March 1, 2004.
- (12) On an OR operation between a variable and a constant

For details, see RENESAS TOOL NEWS "A Note on Using C Compiler M3T-NC30WA --On an OR Operation Between a Variable and a Constant--" issued on March 1, 2004.

2. How to Upgrade the Current Product and Order the Upgraded One

2.1 Online Upgrade (without Charge)

Please download the upgraded product from **HERE**.

2.2 First ordering or upgrading by CD-ROM (with Additional Charge)

Upgrade service in CD-ROM is also available. When you place an order, please furnish the following information to your local Renesas Technology sales office or distributor:

First Ordering

Product Type : M3T-NC30WA

Version No. : V.5.30

Release No. : Release 1

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

Upgrading by CD-ROM

Please let us know your product's license ID or serial number besides the above information.

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