

RENESAS TOOL NEWS on April 1, 2004: RSO-M3T-NC8C-040401D

R8C/Tiny-only Free-version Compiler M3T-NC8C Upgraded to V.5.30 Release 1

We have upgraded the R8C/Tiny-only Free-version Compiler M3T-NC8C from M3T-NC30WA V.5.20 Release 1 to V.5.30 Release 1.

NOTE:

The product name of R8C/Tiny-only Free-version Compiler has been changed from M3T-NC30WA to M3T-NC8C on and after April 1, 2004.

R8C/Tiny-only free-version compiler M3T-NC8C was integrated into the evaluation version of C compiler package M3T-NC30WA for M16C series.

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.
- * -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_jmp (-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 of Compiler 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.

1.3 Problems of Integrated Development Environment High-performance Embedded Workshop Fixed

The following known problems have been fixed:

- (1) On using build options

For details, see RENESAS TOOL NEWS "A Note on Using Integrated Development Environment High-performance Embedded Workshop" issued on March 16, 2004.

- (2) On scanning the dependencies of header files on an assembler source file

For details, see RENESAS TOOL NEWS "A Note on Using Integrated Development Environment High-performance Embedded Workshop (On the File Dependencies Function)" issued on November 1, 2003.

- (3) 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 October 16, 2003.

2. How to Upgrade Your Product

Inform Tool Technical Support of the purpose of upgrading.

Tool Technical Support: csc@renesas.com

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