

Compiler M3T-NC30WA Upgraded to V.5.20 Release 1

We have upgraded the M3T-NC30WA C compiler (with an assembler and integrated development environment) for the M16C/60, M16C/30, M16C/20, and M16C/10 series MCUs from V.5.10 Release 1 to V.5.20 Release 1.

■ On the Evaluation Version

1. Descriptions of Upgrade

1.1 Functions Introduced

The following functions introduced:

- (1) Supporting the R8C/Tiny series MCUs
- (2) Supporting the integrated development environment High-performance Embedded Workshop
- (3) Using the `-fauto_over_255` option that eliminates the limitation imposed on the size of the stack frame (equal to or less 255 bytes)

1.2 Problems Fixed

The following known problems have been fixed:

- (1) On the "MOVA" and "PUSHA" mnemonic instructions
For details, see RENESAS TOOL NEWS "A Note on Using C Compilers and Assemblers M3T-NC308WA, M3T-NC30WA, AS308, and AS30" issued on May 1, 2003.
- (2) On standard library functions `atof` and `strtod`
For details, see RENESAS TOOL NEWS "A Note on Using C Compilers M3T-NC308WA, M3T-NC30WA, M3T-NC79WA and M3T-NC77WA" issued on May 16, 2003.
- (3) On displaying the values of arguments passed to a function
For details, see RENESAS TOOL NEWS "A Note on Using C Compilers M3T-NC308WA and M3T-NC30WA" issued on June 16, 2003.

- (4) On calling functions by using the indirection operator
For details, see RENESAS TOOL NEWS "A Note on Using C compiler M3T-NC30WA V.5.10 Release 1" issued on July 1, 2003.
- (5) On using the `-Ocompare_byte_to_word` (`-OCBTW`) compile option
- (6) On the character string length of a variable which has functions as array elements
For details of items (5) and (6), see RENESAS TOOL NEWS "Notes on Using C Compilers M3T-NC308WA and M3T-NC30WA" issued on July 16, 2003.
- (7) On multiplying a scalar-type variable by an immediate value
For details, see RENESAS TOOL NEWS "A Note on Using C Compiler M3T-NC30WA" issued on July 16, 2003.
- (8) On writing assignment statements successively
For details, see RENESAS TOOL NEWS "A Note on Using C Compiler M3T-NC30WA V.5.10 Release 1" issued on August 16, 2003.
- (9) On arguments of formatted input/output functions
For details, see RENESAS TOOL NEWS "A Note on Using C Compilers M3T-NC308WA, M3T-NC30WA, M3T-NC79WA, and M3T-NC77WA" issued on August 16, 2003.

1.3 On the Evaluation-version and R8C/Tiny-only Free-version of the Product

- The Evaluation Version can be used for 4 months.
- The link size for the R8C/Tiny-only Free-version Compiler is limited to 64K bytes.

2. How to Upgrade the Current Products and Order the Upgraded Ones

2.1 Online Upgrade (without Charge)

Please download the upgraded product you want 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.5.20

Release No. : Release 1

Host OS : Windows XP, Windows Me, Windows 98, Windows 95, Windows 2000, or Windows NT 4.0

[Upgrading by CD-ROM]

Please let us know your product's license ID or Serial No. besides the above information.

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