

RENESAS TOOL NEWS on September 1, 2004: RSO-M3T-CC32R-040901D

## C Compiler Package M3T-CC32R Upgraded to V.4.30 Release 00

We have upgraded the M3T-CC32R C-compiler package from V.4.20 Release 1A to V.4.30 Release 00:

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### 1. Descriptions of Upgrade

#### 1.1 Functions Introduced

The following functions have been introduced:

- (1) 64-bit integer arithmetic function library:  
Various types of operations can be performed between 64-bit integers expressed using the LONG64 structure as inputs and outputs in a dynamic range of 64 bits.
- (2) Enhanced functions for base registers:
  - \* When the symbols for making a base register effective are selected, all of them can be specified in a collective manner for each section.
  - \* Local symbols can also be output when access control files are generated by the map generator.
- (3) New function in the linker:  
The improved linker can generate map files if link errors arise.
- (4) New function in the map generator:  
Map files can be generated in the csv symbol map format as well as the previous ones.
- (5) Improved function in the load module converter:  
A change has been made in outputting the lines of the data records S1, S2, and S3; that is, they are output in address order in the Motorola S format.
- (6) An option "-warn\_suppress\_nested\_comment":

This option suppresses the warning for the nesting of comments.

(7) Extended number of symbols:

The maximum number of symbols at compiling C-language programs has been extended from 10,000 to 40,000 if the -XX option not used.

## 1.2 Problems Fixed

The following known problems have been fixed:

- (1) Problem on statements or expressions in parallelism where only the types of operators for the operations of type float are different from each other  
For details, see RENESAS TOOL NEWS "A Note on Using Cross-Tool Kit M3T-CC32R" issued on November 16, 2003
- (2) Problem on the same two or more indirection references that use pointer variables and are made before and after a function call  
For details, see RENESAS TOOL NEWS "A Note on Using Cross-Tool Kit M3T-CC32R" issued on December 16, 2003
- (3) Problem on displaying a value less than 0.5 by using a formatted output function such as printf  
For details, see RENESAS TOOL NEWS "A Note on Using Cross-Tool Kit M3T-CC32R" issued on January 1, 2004
- (4) Problem on floating constants with an exponent part  
For details, see RENESAS TOOL NEWS "A Note on Using Cross-Tool Kit M3T-CC32R" issued on February 1, 2004
- (5) Problem on rebuilding standard libraries in the Windows version  
For details, see RENESAS TOOL NEWS "A Note on Using Cross-Tool Kit M3T-CC32R V.4.20 Release 1" issued on February 1, 2004
- (6) Problem on the power functions (powf5, powf, and pow) in the standard library  
For details, see RENESAS TOOL NEWS "A Note on Using C-Compiler Package M3T-CC32R" issued on May 1, 2004
- (7) Problem on making a change to a variable by using a bit field  
For details, see RENESAS TOOL NEWS "A Note on Using C-Compiler Package M3T-CC32R" issued on May 1, 2004
- (8) Problem on reading out data in memory using pointers  
For details, see RENESAS TOOL NEWS "A Note on Using C-Compiler Package M3T-CC32R" issued on August 1, 2004

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

### 2.1 Online Upgrade (without Charge)

Upgrading procedure varies according to the version of your product.

- (1) For the customer who is using M3T-CC32R V.1.00  
Release 4 or later  
(with the license ID possessed)  
Please download the upgraded product from **HERE**.
- (2) For the customer who is using M3T-CC32R V.1.00  
Release 1, 2, or 3  
Fill in the appended "Free-of-Charge M3T-CC32R License  
ID Application Form" and send it by e-mail or FAX to your  
local Renesas Technology sales office or distributor.  
We will inform you of your license ID by return. Then,  
download the upgraded product by using it from the Web  
page shown in (1)above.

#### NOTICES:

- Only the customer who has already sent their  
registration can apply for their License ID free of  
charge.
- Your newly obtained license ID is not a temporary  
one for this online upgrade. Keep it carefully for later  
use.
- The W95E version has been renamed to the WIN  
version since V.4.20 Release 1A.
- Because the publication of the IBE version has been  
discontinued since V.1.00 Release 4, please upgrade  
your product to the WIN version, if necessary.

### 2.2 First Ordering

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

Product Type: M3T-CC32R

Version No.: V.4.30

Release No.: Release 00

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

#### NOTICE:

In the M3T-CC32R is bundled the M3T-PD32RSIM emulator debugger. If you are using a partner-made C-compiler package and need a simulator debugger only, please provide the following information for your local Renesas Technology sales office or distributor:

Product Type: M3T-PD32RSIM

Version No.: V.2.10

Release No.: Release 1A

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

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