

# RENESAS TOOL NEWS on December 1, 2006: 061201/tn3

# A Note on Using the C Compiler Package for the M16C Series

Please take note of the following problem in using the C compiler package-- M3T-NC30WA--for the M16C series: \*

- With using assembler start-up files
- With using C-language start-up files

\* The M16C series is the generic name of the M16C/60, /30, /20, /10, /Tiny and R8C/Tiny series.

# 1. With using assembler start-up files

#### 1.1 Product and Version Concerned

The C compiler package (M3T-NC30WA) for the M16C series V.5.42 Release 00

# 1.2 **Description**

If you use any assembler start-up file generated by the High-performance Embedded Workshop, the user stack pointer is not set properly.

#### 1.3 Conditions

This problem occurs when the assembler start-up file is generated by the High-perfomance Embedded Workshop, if status is set to use the user-stack on making a new workspace. The default status is to use the user-stack.

In this case, the value of \_\_STACKSIZE\_\_ defined in the nc\_define.inc file is equal to or greater than 1.

#### 1.4 Workarounds

When a new workspace is generated:

We provide you with the problem-fixed start-up file ncrt0.a30.

So, go through the following steps:

(1) Download the ZIP file.(3KB)

- (2) Decompress the ZIP file to obtain the st\_up folder.
- (3) Overwrite the previous st\_up folder that resides in the following directory\* with the one obtained in (2):

  Hew\System\Pg\Renesas\M16C\V5\_42\_0\Generate
  - \* In this directory, the High-performance Embedded Workshop has been installed; it is under C:\programFiles\Renesas\pi by default.

When a workspace has existed already:

Modify source-lines in the ncrt0.a30 according to the following cases

- The start-up file for R8C/Tiny series: Change 35 and 36 lines
- The start-up file for M16C family: Change 41 and 42 lines

# 

# 1.5 Schedule of Fixing the Problem

We plan to fix this problem in the next release of the product.

# 2. With using C-language start-up files

### 2.1 Product and Versions Concerned

The C compiler package (M3T-NC30WA) for the M16C series V.5.40 Release 00 and V.5.42 Release 00

## 2.2 **Description**

If you use any C-language start-up file generated by the High-

performance Embedded Workshop, the section for external variables with initial values may not be initialized properly.

### 2.3 Conditions

This problem occurs if the following conditions are all satisfied:

- (1) The initsct.c file is not linked at the top of the user program.
- (2) The last of a section in the file linked to the user program immediately before the initsct.c file has an odd address.

### 2.4 Workarounds

Go through the following steps to link the initsct.c file at first to the user program:

- (1) Open the Build menu and Select the Linkage Order command. You see the Linkage Order dialog box.
- (2) Check the Use custom linkage order check box.
- (3) Click "initsct.r30" in the list displayed; then press the Move to top button.
- (4) Press the OK button to close the dialog box.

# 2.5 Schedule of Fixing the Problem

We plan to fix this problem in the next release of the product.

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