

RENESAS TOOL NEWS on March 1, 2005: RSO-M3T-NC30WA\_2-050301D

## A Note on Using C-Compiler Package M3T-NC30WA --On Using Assembler Directive Commands--

Please take note of the following problem in using the M3T-NC30WA C-compiler package, which is used for the M16C/60, M16C/30, M16C/Tiny, M16C/20, M16C/10, and R8C/Tiny series of MCUs:

- On using assembler directive commands ".ID", ".PROTECT" and ".OFSREG"

### 1. Versions Concerned

M3T-NC30WA V.5.20 Release 1 through V.5.30 Release 02

### 2. Description

If assembler directive commands ".ID", ".PROTECT", or ".OFSREG" is put in the program, the following option and others cannot be used:

Note, however, that ".OFSREG" affects only the M3T-NC30WA V.5.30 Release 02.

- (1) Command option "-U" in the LN30 linkage editor
- (2) The STK viewer
- (3) The Map viewer
- (4) The UTL30 utility, which declares SBDATA and the SPECIAL page functions
- (5) The inspector functions in the TM (an integrated development environment)

NOTICE: In the M3T-NC30WA V.5.30 Release 02, assembler directive command ".OFSREG" has already been written in the section definition file sect30.inc in the ¥src30¥startup directory, where the M3T-NC30WA resides.

When the R8C/Tiny series is selected as a group to be compiled or assembled in the High-performance Embedded Workshop, or "-R8C" is selected as a parameter of any compile or assembler option, assembler directive command

".OFSREG" in the sect30.inc file becomes valid, so the above-mentioned five items cannot be used.

### 3. Workaround

This problem can be circumvented in any of the following ways:

- (1) Delete assembler directive command ".ID" and use command option "-ID" of the LMC30 load module converter.
- (2) Delete assembler directive command ".PROTECT" and use command option "-protect1", "-portect2", or "-protectx" of the LMC30.
- (3) Delete assembler directive command ".OFSREG" and use command option "-ofsregx" of the LMC30.
- (4) Use a fixed value as a value set by an assembler directive command:

Example: Case where assembler directive command ".OFSREG" used for the R8C/Tiny series

```
-----  
.lword start | 0ff000000h ; The option function select register is  
; set to FFH, a fixed value.
```

```
;  
; ID code check function  
; .id "CodeChk"  
;  
; option function select register  
;  
;.ofsreg 0FFH ; This line commented out.  
-----
```

### 4. Schedule of Fixing the Problem

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

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