

RENESAS TOOL NEWS on July 1, 2004: RSO-M3T-NC30WA_1-040701D

A Note on Using C Compiler Package M3T-NC30WA V.5.30 Release 1 --On Selecting Link Option "-R8C"--

Please take note of the following problem in using the M3T-NC30WA V.5.30 Release 1 C-compiler package for the M16C/60, M16C/30, M16C/Tiny, M16C/20, M16C/10, and R8C/Tiny series of the M16C family MCUs:

- On selecting link option "-R8C"
-

1. Versions Concerned

M3T-NC30WA V.5.30 Release 1

2. Description

If link option "-R8C" is selected, the following problems occur in the message telling the value set in the ROM code protect control address:

- (1) The message itself is incorrect.

For

Caution!! The Value of ID code protect control address is xxH
read

Caution!! The Value of ROM code protect control address is xxH

NOTE: xxH denotes the value set in the ROM code protect control address

- (2) The message may not tell the correct value. Note, however, that the code is generated correctly though the value told is incorrect.

2.1 Conditions

This problem occurs if the following two conditions are satisfied:

- (1) Link option "-R8C" is selected.
- (2) The value of the ROM code protect control address is set using such an assembler directive command as ".LWORD".

2.2 Example

Source file in assembly language:

```
-----  
.section fvector,ROMDATA  
.org 0FFFCH  
RESET:  
.lword start | 0FF000000H  
.end  
-----
```

Message displayed at invoking the ln30 linker:

```
-----  
> ln30 -R8C sample  
  
.....  
  
Caution!! The Value of ID code protect control address is 0H  
-----  
The correct value to be displayed is not "0H" but "FFH".
```

3. Workaround

When setting a value in the ROM code protect control address, use assembler directive command ".PROTECT".

Example of Modification:

Source file in assembly language:

```
-----  
.section fvector,ROMDATA  
.org 0FFFCH  
RESET:  
.lword start  
.protect 0FFH  
.end  
-----
```

4. **Schedule of Fixing the Problem**

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

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