

A Note on Using the C Compiler Packages M3T-NC308WA and M3T-NC30WA

Please take note of the following problem in using the C compiler packages M3T-NC308WA and M3T-NC30WA, which are used for the M16C MCU family:

- On using the "-JOPT" option at linking
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1. Products and Versions Concerned

M3T-NC308WA V.5.20 Release 1 and V.5.20 Release 02
(for the M32C/90, M32C/80, and M16C/80 series)

M3T-NC30WA V.5.30 Release 1 and V.5.30 Release 02
(for the M16C/60, M16C/30, M16C/20, M16C/10, M16C/Tiny, and R8C/Tiny series)

2. Description

If the "-JOPT" option is used at linking, either of the following warning messages may be displayed, which tells duplication of a directive command ".ID," ".PROTECT," or ".OFSREG" even though the directive command is not duplicated.

In M3T-NC308WA

Warning (In308): Directive command '.ID' is duplicated

Warning (In308): Directive command '.PROTECT' is duplicated

In M3T-NC30WA

Warning (In30): Directive command '.ID' is duplicated

Warning (In30): Directive command '.PROTECT' or '.OFSREG' is duplicated

3. Conditions

This problem occurs if the following conditions are all satisfied:

- (1) Assembler directive command, ".ID," ".PROTECT," or ".OFSREG," is used.

- (2) In the program exists a jump instruction that can optimize the jump distance at linking
- (3) The "-Oglb_jump [-OGJ]" option of the compiler or the "-JOPT" of the assembler is selected.
- (4) The "-JOPT" option is selected in the linker.

Example:

```
-----  
_asm(" .protect 0FFH"); /* Condition (1) */  
extern void func2(void);  
  
void func1(void)  
{  
    func2();          /* Condition (2); Code jsr _func2 generated */  
}
```

4. Workaround

This problem can be circumvented either of the following ways:

- (1) Use load module converter option "-ID," "-protectx," or "-ofsregx" instead of assembler directive command ".ID," ".PROTECT," or ".OFSREG" respectively.
- (2) When ".ID," ".PROTECT," or ".OFSREG" is selected, don't use link option "-JOPT."

5. Schedule of Fixing the Problem

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

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