

Notes on Using C-Compiler Package M3T-NC308WA

Please take note of the following problems in using the M3T-NC308WA C-compiler package, which is used for the M32C/90, M32C/80, and M16C/80 series of MCUs:

- On using assembler directive commands ".ID" and ".PROTECT"
 - On using assembler options "-mode60" and "-mode60p"
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1. Problem on Using Assembler Directive Commands ".ID" and ".PROTECT"

1.1 Version Concerned

M3T-NC308WA V.5.20 Release 1

1.2 Description

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

- (1) Command option "-U" in the LN308 linkage editor
- (2) The STK viewer
- (3) The Map viewer
- (4) The UTL308 utility, which declares SBDATA and the SPECIAL page functions
- (5) The inspector functions in the TM (an integrated development environment)

1.3 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 LMC308 load module converter.
- (2) Delete assembler directive command ".PROTECT" and use command option "-protect1", "-portect2", or "-protectx" of the LMC308.
- (3) Use a fixed value as a value set by an assembler directive command:

Example: Case where assembler directive command
".PROTECT" used

```
-----  
-----  
    .org 0FFFFFFCh  
    RESET:  
    .lword start | 0ff000000h ; at the ROM code protect  
control  
  
                ; address,FFH is set as a fixed value.  
-----  
-----
```

1.4 Schedule of Fixing the Problem

This problem has already been fixed in the M3T-NC308WA V.5.20 Release 02.

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2. Problem on Assembler Options "-mode60" and "-mode60p"

2.1 Versions Concerned

M3T-NC308WA V.1.00 Release 1 through V.5.20 Release 02

2.2 Description

If assembler option "-mode60" or "-mode60p" is put in the assembler source program, the following instructions are not replaced with those for the M32C/90, M32C/80, and M16C/80 series of MCUs with no warning messages being provided:

- o SMOVB
- o SMOVF
- o RMPA

2.3 Workaround

If the above instructions are put in the assembler source program, check their functions performed in the M32C/90, M32C/80, and M16C/80 series of MCUs to use them.

The reason is that the registers used at the execution of the above instructions in the M32C/90, M32C/80, and M16C/80 series of MCUs are different from those used in the M16C/60, M16C/30, M16C/20, M16C/10, M16C/Tiny, and R8C/Tiny series, so, the results of operations or transfers that the user is expecting may not be obtained.

Therefore, rewrite the above instructions to meet the related functions of the M32C/90, M32C/80, and M16C/80 series of MCUs.

2.4 Schedule of Fixing the Problem

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

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