

## A Note on Using C compiler M3T-NC30WA V.5.10 Release 1

Please take note of the following problem in using the M3T-NC30WA C compiler (with an assembler and integrated development environment) for the M16C/60, M16C/30, M16C/20, and M16C/10 series MCUs:

- On calling functions by using the indirection operator

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### 1. Description

Calling a function using the indirection operator results in incorrect code being generated.

### 2. Conditions

This problem occur if the following three conditions are satisfied:

- (1) Either of the optimizing options -OR and -OS is selected.
- (2) Immediately before the ending process of a function A, another function B is called using an indirection operator.
- (3) A pointer variable pointing to function B is declared outside of function A.

### 3. Example

```
-----  
void (*sub)(void); /* Condition (3) */  
:  
void func(void)  
{  
:  
  (*sub)(); /* Condition (2) */  
}
```

-----

### 4.

## Workaround

Place a dummy asm function immediately after calling a function using the indirection operator.

```
-----  
void (*sub)(void);  
  :  
void func(void)  
{  
  :  
  (*sub)();  
  asm();      /* A dummy asm function inserted */  
}
```

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## 5. Schedule of Fixing the Problem

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

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