

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

Please take note of the following problem in using the M3T-NC308WA and M3T-NC30WA C-compiler packages:

- On an inline function that returns a value of type `_Bool`

1. Products and Versions Concerned

- (1) C Compiler packages for the M16C/60, M16C/30, M16C/Tiny, M16C/20, M16C/10, and R8C/Tiny series of MCUs
M3T-NC30WA V.5.10 Release 1 through V.5.30 Release 1
- (2) C Compiler packages for the M32C/80, and M16C/80 series of MCUs
M3T-NC308WA V.5.00 Release 1 through V.5.20 Release 1

2. Description

If a source file is compiled in which an inline function that returns a value of type `_Bool` is called, a system error will arise.

2.1 Conditions

This problem occurs if the following conditions are all satisfied:

- (1) An inline function that returns a value of type `_Bool` is declared.
- (2) After this definition, the above inline function is called.
- (3) Option `-Ofoward_function_to_inline(-OFFTI)` is not used at compilation.

2.2 Example

```
-----  
inline _Bool sub(void)    // Condition (1)  
{
```

```
    return 1;
}

void func(void)
{
    _Bool ret;
    ret=sub();           // Condition (2)
}
-----
```

3. **Workaround**

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

- (1) Use the -OFFTI option at compilation.
- (2) Declare no inline function having a return value of type _Bool.
- (3) Define the return value of the inline function as of type other than _Bool.

4. **Schedule of Fixing the Problem**

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

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