

## A Note on Using C compilers M3T-NC308WA and M3T-NC30WA --On Declaring Parameters in Function Definitions--

Please take note of the following problem in using the M3T-NC308WA and M3T-NC30WA C compilers (with an assembler and integrated development environment):

- On declaring parameters in function definitions

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### 1. Products and Versions Concerned

M3T-NC308WA V.5.10 Release 1

for the M32C/80 and M16C/80 series

M3T-NC30WA V.5.10 Release 1 and V.5.20 Release 1

for the M16C/60, M16C/30, M16C/Tiny, M16C/20, M16C/10, and R8C/Tiny series

### 2. Description

If no identifier (the name of a parameter) is specified at declaring a parameter in a function definition, compiling such a source file causes an application error to arise.

#### 2.1 Conditions

This problem occurs if the following three conditions are satisfied:

- (1) A function with a parameter passed via a register is defined.
- (2) No identifier is appended to the parameter in (1) in a function definition.
- (3) None of the optimizing options -O, -O1, -O2, -O3, -O4, -O5, -OR, and -OS is selected.

#### 2.2 Example

-----  
int func(int); /\* The 1st parameter is of type int,

so passed via a register \*/

```
int func(int)    /* Conditions (1) and (2) */
{
    return 0;
}
-----
```

### 3. Workaround

Specify an identifier at declaring a parameter in a function definition.

```
-----
int func(int);    /* The identifier of a parameter is unnecessary
                  in a function declaration */
int func(int i)   /* The identifier "i" of a parameter is
                  necessary in a function definition */
{
    return 0;
}
-----
```

NOTICE: In ANSI C, no identifier can be omitted at declaring a parameter in every function definition except "void" with no parameter. In this case of exception, no identifier can be appended.

### 4. Schedule of Fixing the Problem

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

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