

A Note on Using C Compilers M3T-NC308WA, M3T-NC30WA, M3T-NC79WA, and M3T-NC77WA

Please take note of the following problem in using the M3T-NC308WA, M3T-NC30WA, M3T-NC79WA, and M3T-NC77WA C compilers (with an assembler and integrated development environment):

- On defining structure-type arrays

1. Products and Versions Concerned

M3T-NC308WA V.1.00 Release 1 through V.5.00 Release 1
for the M32C/80 and M16C/80 series MCUs

M3T-NC30WA V.1.00 Release 1 through V.5.00 Release 2
for the M16C/60, M16C/30, M16C/20, and M16C/10 series MCUs

M3T-NC79WA V.2.00 Release 1 through V.4.10 Release 1A
for the 79xx series MCUs

M3T-NC77WA V.3.00 Release 1 through V.5.20 Release 4
for the 77xx series MCUs

2. Description

Writing an expression that references an element of a structure-type array may result in incorrect code being generated.

Note:

In the M3T-NC77WA V.3.00 Release 1 through V.3.20 Release 4, the error message "[Error(ccom):xxx.c,line 12] incomplete struct get by []" is displayed; no error messages are displayed in the other compilers.

3. Conditions

This problem occurs if the following four conditions are satisfied:

- (1) A structure-type array is defined.
- (2) A structure is defined.
- (3) The definition in (1) precedes the one in (2).
- (4) In the program exists an expression referencing an element of the array defined in (1).

4. Example

```
-----  
struct AAA a[10];    /* Conditions (1) and (3) */  
  
struct AAA {        /* Condition (2) */  
    int a;  
    int b;  
};  
  
int gi;  
  
void smp(int i)  
{  
    gi = a[i].b;    /* Condition (4) */  
}
```

5. Workaround

Define the structure in Condition (2) in advance of defining the structure-type array in Condition (1).

```
-----  
struct AAA {  
    int a;  
    int b;  
};  
  
struct AAA a[10];  
-----
```

6. Schedule of Fixing the Problem

For the M3T-NC308WA and M3T-NC30WA, this problem has been fixed both in V.5.10 Release 1.

For the M3T-NC79WA and M3T-NC77WA, we plan to fix it in our next release of them.

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