

A Note on Using C Compilers M3T-NC308WA and M3T-NC30WA

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 displaying the values of arguments passed to a function
-

1. Products and Versions Concerned

M3T-NC308WA V.5.10 Release 1

for the M32C/80 and M16C/80 series MCUs

M3T-NC30WA V.5.10 Release 1

for the M16C/60, M16C/30, M16C/20, and M16C/10 series MCUs

2. Description

The values of arguments passed to a function through a register may not correctly be displayed in the emulator debugger or simulator debugger. However, codes are created correctly.

3. Conditions

The conditions under which this problem occurs are as follows:

In the M3T-NC308WA

The type of the first argument of a function is `_Bool`, `char`, `int`, or near pointer. (The arguments of these types are all passed to functions through registers.)

In the M3T-NC30WA

The type of the first argument of a function is `_Bool`, `char`, `int`, or near pointer; or that of the second argument is `int` or near pointer. (The arguments of these types are all passed to functions through registers.)

4. **Example**

In the program shown below, the value of argument i cannot correctly be displayed in the debugger.

```
-----  
void func(int i, char c) // 1st argument is of type int  
{  
:  
}
```

5. **Workaround**

This problem can be circumvented by performing the following steps:

- (1) Add storage class "register" to the argument displayed incorrectly.
- (2) Select the -fER/-fenable_register option at compilation.

```
-----  
void func(register int i, char c)  
{  
:  
}
```

6. **Schedule of fixing the Problem**

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

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