

## 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 the division and remainder operations between constants

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### 1. Products and Versions Concerned

The M3T-NC308WA V.5.00 Release 1 and V.5.10 Release 1  
for the M32C/80 and M16C/80 series

The M3T-NC30WA V.5.00 Release 1 through V.5.20 Release 1  
for the M16C/60, M16C/30, M16C/Tiny, M16C/20, M16C/10, and R8C/Tiny series

### 2. Description

A division or remainder operation between constants may results in an error.

#### 2.1 Conditions

This problem occurs if the following three conditions are satisfied:

- (1) In the program exists an expression containing a division or remainder operation between constants.
- (2) Either the dividend or the divisor of the division or remainder operation is of type signed long long or unsigned long long.
- (3) The upper 32 bits of the dividend is neither 0 nor 0xffffffff.

#### 2.2 Example

```
-----  
long long l;
```

```
main()
```

```
{  
  l = 9000000000000000LL/9000000; /* Conditions (1), (2), and (3) */  
}
```

---

### 3. Workaround

Replace the expression of the division or remainder operation with its result.

```
-----  
long long l;  
  
main()  
{  
  l = 100000000; /* Replaced with the result of division */  
}
```

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### 4. Schedule of Fixing the Problem

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

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