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# A Note on Using the C-Compiler Package M3T-NC30WA V.5.30 Release 02

Please take note of the following problem in using the C-compiler package M3T-NC30WA V.5.30 Release 02 (this compiler package is used for the M16C/60, M16C/30, M16C/20, M16C/10, M16C/Tiny, and R8C/Tiny series of MCUs):

 On assigning a near-qualified variable of 64-bit data type to a far-qualified variable of the same type

### 1. Description

If a near-qualified variable of 64-bit data type\* is assigned to a far-qualified variable of the same type, the values in the lower 3rd and 4th bytes of an 8-byte data piece cannot be done.

\* Omission of the qualifier is interpreted as qualified to be near.

```
Example:
```

#### 2. Workaround

When assigning a near-qualified variable of 64-bit data type to a far-qualified variable of the same type, transfer the former variable 2 bytes at a time using asm functions as follows:

 If the variables to reference are auto variables or arguments, use format "\$\$," and if they are external variables, use format "\$\$" or "\$@."

```
far long long I2;

void func(long long I1)
{
   asm(" ste.w $$[FB],$@",I1,I2);
   asm(" ste.w $$+2[FB],$@+2",I1,I2);
   asm(" ste.w $$+4[FB],$@+4",I1,I2);
   asm(" ste.w $$+6[FB],$@+6",I1,I2);
}
```

## 3. Schedule of Fixing the Problem

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

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