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## A Note on Using the C Compiler Packages for the M16C Family of MCUs --With Using Options to Optimize Jump Instructions at Linking--

Please take note of the following problem in using the C compiler packages-- M3T-NC308WA and M3T-NC30WA--for the M16C family of MCUs:

- With using options to optimize jump instructions at linking
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### 1. Products and Versions Concerned

- The C compiler package--M3T-NC308WA--for the M32C series\*  
V.5.20 Release 1 through V.5.41 Release 01
- The C compiler package--M3T-NC30WA--for the M16C series\*\*  
V.5.30 Release 1 through V.5.43 Release 00

\*The M32C series is the generic name of the M32C/80 and M16C/80 series.

\*\*The M16C series is the generic name of the M16C/60, /30, /20, /10, /Tiny, and R8C/Tiny series.

### 2. Description

Using some types of options to optimize jump instructions at linking may cause the distances of jumps to be outside the specified range; that is, incorrect jumps be performed. At this time, any of the following error and warning messages will be dispatched:

- (1) "Value is out of range" (Assemble error)
- (2) "8-bits signed value is out of range" (Link warning)
- (3) "16-bits signed value is out of range" (Link warning)

### 3. Conditions

This problem may occur if any of the following options is used:

- (1) Compiler option -Oglb\_jmp(-OGJ)

(2) Assembler option -JOPT

(3) Linker option -JOPT

**NOTICE:**

If any error or warning message is dispatched when you are using none of the above options, it is independent of this problem.

#### **4. Workaround**

Do not use any of the options listed in Section 3.

#### **5. Schedule of Fixing the Problem**

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

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