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

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.

[Disclaimer]
The past news contents have been based on information at the time of publication. Now changed or invalid information may be included. The URLs in the Tool News also may be subject to change or become invalid without prior notice.

© 2010-2016 Renesas Electronics Corporation. All rights reserved.