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A Note on Using the C Compiler Package for the M16C Series of MCUs

Please take note of the problem described below in using the C compiler package for the M16C series of MCUs.

1. Product and Versions Concerned

C compiler package for the M16C series* (M3T-NC30WA)
V.5.42 Release 00 and V.5.43 Release 00

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

2. Description

If you compile programs using the -R8C option, the following error may arise at linking:

```
Warning(ln30) : 'rom_FE' data exceed 0FFFFH
```

3. Conditions

This problem occurs if the following conditions are both satisfied:

- (1) Option -R8C is valid because you selected the R8C/Tiny Series in the CPU Series list box and 64KB or Less in the setting of ROM size when the workspace was created using High-performance Embedded Workshop.
- (2) Any of the following mathematical functions is used:
acosf, asinf, atan2f, atanf, cosf, coshf
expf, log10f, logf, powf, sinf, sinhf
sqrtf, tanf, and tanhf

4. Workaround

Re-arrange the rom_FE section so that it can fall within the ROM area specified for the MCU group selected at creating the project.

5. Schedule of Fixing the Problem

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

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