# **RENESAS** Tool News

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## 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 Ccompilers (with an assembler and integrated development environment):

• On defining array-type variables

### 1. Products and Versions Concerned

M3T-NC308WA V.5.00 Release 1 and V.5.10 Release 1 for the M32C/80 and M16C/80 series
M3T-NC30WA V.5.10 Release 1 and V.5.20 Release 1 for the M16C/60, M16C/30, M16C/Tiny, M16C/20, M16C/10, and R8C/Tiny series

### 2. Description

If two or more array-type external variables with the same name are defined, incorrect code may be generated at compilation without interpreting it as an error.

#### 3. Conditions

This problem occurs if the following two conditions are satisfied:

- (1) Two or more array-type external variables with the same name are defined.
- (2) The array-type variables in (1) are different from each other in the number of elements.

#### 4. Examples

Example 2	
char b[10]; extern char b[20];	
Example 3	
char c[10]; char c[20];	

In these examples, the code for reserving a 10-byte RAM area is generated for each of the variables a, b, and c without interpreting them as errors.

(To each variable necessary memory is allocated to accommodate the number of elements declared at first.)

### 5. Workaround

Define two or more array-type variables with the same name such a way that their numbers of elements are the same.

Example 1 \_\_\_\_\_ ----extern char a[20]; char a[20]; \_\_\_\_\_ Example 2 ----char b[20]; extern char b[20]; \_\_\_\_\_ Example 3 \_ \_ \_ ----char c[20]; char c[20]; \_\_\_\_\_

#### 6. Schedule of Fixing the Problem

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

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