Please take note of the following problem in using the M3T-NC30WA C compiler (with an assembler and integrated development environment) for the M16C/60, M16C/30, M16C/20, and M16C/10 series MCUs:

- On calling functions by using the indirection operator

1. **Description**
   Calling a function using the indirection operator results in incorrect code being generated.

2. **Conditions**
   This problem occurs if the following three conditions are satisfied:
   - (1) Either of the optimizing options -OR and-OS is selected.
   - (2) Immediately before the ending process of a function A, another function B is called using an indirection operator.
   - (3) A pointer variable pointing to function B is declared outside of function A.

3. **Example**

   ```c
   void (*sub)(void); /* Condition (3) */
   :
   void func(void)
   {
     :
     (*sub)(); /* Condition (2) */
   }
   ```

4.
**Workaround**
Place a dummy asm function immediately after calling a function using the indirection operator.

```c
void (*sub)(void);
:
void func(void)
{
:
    (*sub)();
    asm();     /* A dummy asm function inserted */
}
```

5. **Schedule of Fixing the Problem**
We plan to fix this problem in our next release of the product.

[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.