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A Note on Using C-Compiler Package M3T-NC30WA V.5.30 Release 02

Please take note of the following problem in using the M3T-NC30WA C-compiler package, which is used for the M16C/60, M16C/30, M16C/Tiny, M16C/20, M16C/10, and R8C/Tiny series of MCUs:

- On passing the address of an object qualified as const as an argument to a function
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1. Product and Version Concerned

M3T-NC30WA V.5.30 Release 02

2. Description

Consider that a function takes the address of an object qualified as const as an argument. When such a function is called, an error message appears even if a correct type of argument is passed. However, code is properly generated in this case.

2.1 Conditions

This problem occurs if the following conditions are all satisfied:

- (1) A parameter to the function to be called is a pointer pointing to an object qualified as const.
- (2) The argument corresponding to the parameter in (1) is either of the following:
 - The result of operation where an address operator is applied to an object qualified as const
 - The name of an array qualified as const
- (3) The object and the array in (2) above are of the same type as the object pointed to by the pointer in (1).

2.2 Examples

```

-----
const int  ten = 10;          /* Condition (3) */
const int  arr[2] = { 1, 2 }; /* Condition (3) */

void subr(const int *);      /* Conditions (1) and (3) */

void mainr(void)
{
    subr(&ten);              /* Condition (2) */
    subr(arr);               /* Condition (2) */
}
-----

```

Examples of messages

```

-----
[Warning(ccom):example.c,line 8] assignment from const pointer to
non-const pointer
==>    subr(&ten);
[Warning(ccom):example.c,line 9] assignment from const pointer to
non-const pointer
==>    subr(arr);
-----

```

3. Workaround

Operate a cast operator on the argument to which a warning message is sent.

```

-----
void mainr(void)
{
    subr((const int *)&ten);    /* Cast operator operated */
    subr((const int *)arr);     /* Cast operator operated */
}
-----

```

4. Schedule of Fixing the Problem

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

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