RENESAS Tool News

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A Note on Using C-Compiler Packages M3T-NC308WA and M3T-NC30WA

--On Passing a Pointer or Address to a Function as an Argument--

Please take note of the following problem in using the M3T-NC308WA and M3T-NC30WA Ccompiler packages (these C-compiler packages are used for the M16C family of MCUs):

• On passing a pointer or address to a function as an argument

1. Products and Versions Concerned

- M3T-NC308WA V.5.20 Release 02 (for the M32C/90, M32C/80 and M16C/80 series)
- M3T-NC30WA V.5.30 Release 02 (for the M16C/60, M16C/30, M16C/20, M16C/10, M16C/Tiny and R8C/Tiny series)

2. Description

When making a call to a function that takes a pointer as an argument, a warning message may be displayed even if a correct type of argument is passed to the function.

2.1 Conditions

This problem occurs if the following conditions are all satisfied:

- (1) The parameter of a function to call is a pointer type not qualified with "const".
- (2) The argument of the function in (1) is a pointer or address qualified with "const".
- (3) The type pointed to by the pointer qualified with "const" in (2) is the same as the one pointed to by the pointer in (1).
- 2.2 Example

void subr2(int *); /* Conditions (1) and (3) */

```
extern int var;
int * const p = &var;  /* Conditions (2) and (3) */
void mainr2(void)
{
    subr2( p );    /* Condition (2) */
}
```

3. Workaround

Explicitly convert the type of the argument to that of the parameter using the cast operator.

```
void subr2( int * );
extern int var;
int * const p = &var;
void mainr2(void)
{
    subr2( (int*)p ); /* Cast operator used */
}
```

4. Schedule of Fixing the Problem

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

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