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 C-compiler 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) */
}

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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 */
   }

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4. **Schedule of Fixing the Problem**
   We plan to fix the problem in the next release of the products.

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