

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 C compilers (with an assembler and integrated development environment):

- On using the link option "-U"

1. Products and Versions Concerned

M3T-NC308WA V.5.10 Release 1

for the M32C/80 and M16C/80 series MCUs

M3T-NC30WA V.5.10 Release 1 and V.5.20 Release 1

for the M16C/60, M16C/30, M16C/20, M16C/10, and R8C/Tiny series MCUs

2. Description

When a local function is called using a pointer to the function, the linker may dispatch the warning message saying "Local function 'xxx' is never used".

3. Conditions

This problem occurs if the following three conditions are satisfied:

- (1) The source file is specified in the full path name at compilation.
- (2) Local functions are defined as an element of the array.
- (3) The -U link option is used.

3.1 Example

```
D:¥src¥samp.c:
```

```
-----  
static void func1(void);  
static void func2(void);
```

```

void (*FuncTbl[])(void)={func1,func2}; /* Condition (2) */

void main()
{
    int i;
    void (*p)();

    for( i=0; i<2; i++ ){
        p = FuncTbl[i];
        (*p)();
    }
}

void func1()
{
}

void func2()
{
}
-----

```

At compilation:

```
D:\> nc30 src\samp.c -finfo -ln30 -u      Conditions (1) and (3)
```

Warning messages dispatched in the above example:

```
src/samp.c 18 Warning (ln30): Local function 'func1'is never used
src/samp.c 22 Warning (ln30): Local function 'func2'is never used
```

4. **Workaround**

Change local functions to global functions if possible. If not, neglect the warnings; the source file will successfully be compiled.

5. **Schedule of Fixing the Problem**

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

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