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

Please take note of the following problem in using the M3T-NC308WA and M3T-NC30WA C-compiler packages:

- On nesting inline functions
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1. Products and Versions Concerned

The C-compiler package for the M32C/80 and M16C/80 series:

M3T-NC308WA V.5.00 Release 1 through V.5.20 Release 1

The C-compiler package for the M16C/60, M16C/30, M16C/Tiny, M16C/20, M16C/10, and R8C/Tiny series:

M3T-NC30WA V.5.10 Release 1 through V.5.30 Release 1

2. Description

When an inline function that takes a parameter is nested, it may refer to an incorrect argument (a variable, not an argument).

3. Conditions

This problem occurs if the following conditions are both satisfied:

- (1) An inline function is nested in another.
- (2) Inline function A as a calling source and inline function B as the destination take the same parameter.

Example

```
-----  
inline B(int aaa, char ccc)    /* Condition (2) */  
{  
    .....
```

```
}
inline A(int c, int aaa, char *ccc) /* Condition (2) */
{
int i;
char c;
    B(i,c);          /* Condition (1) */
}
```

4. **Workaround**

This problem can be circumvented any of the following ways:

- (1) Change the name of the parameter taken by the destination function (inline function B in the above example).
- (2) Don't nest any inline function.
- (3) Compile the program using the `-Ofoward_function_to_inline(-OFFTI)` option. (This option can be used on M3T-NC308WA V.5.20 Release 1 and M3T-NC30WA V.5.30 Release 1 only.)

5. **Schedule of Fixing the Problem**

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

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