

A Note on Using the C Compiler Package for the 740 MCU family

Please take note of the following problem in using the C compiler package for the 740 MCU family:

- With using variables of type unsigned char in the controlling expression of a for or while statement

1. Product and Versions Concerned

C compiler package for the 740 family (M3T-ICC740)
V.1.00 Release 1 through V.1.01 Release 02

2. Description

If variables of type unsigned char are used in the controlling expression of a for or while statement, the result of operation and the number of looping may become incorrect.

3. Conditions

This problem may occur if either of the following conditions is satisfied:

(1) In the for statement

Variables of type unsigned char are used in any operation performed in the reset expression within the for statement except the one using the ++ or -- operator.

(2) In the while statement

Variables of type unsigned char are used in any operation performed in the continuation conditional expression within the while statement except the one using the ++ or -- operator.

Example:

unsigned char i, j;

```
for( i = j; i > 9; i = i - 9 ) {  
.....  
}
```

4. Workaround

Replace the variables of type unsigned char used in the operation in 3-(1) or -(2) above with those of type that excludes unsigned char for example unsigned short or signed char.

Example:

```
-----  
unsigned short i, j;          /* unsigned short used */  
  
for( i = j; i > 9; i = i - 9 ) {  
.....  
}
```

5. Schedule of Fixing the Problem

Sorry we have no plan to fix this problem. So avoid it using the method explained in 4 above.

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