

A Note on Using C Compilers M3T-NC308WA, M3T-NC30WA, M3T-NC79WA, and M3T-NC77WA

Please take note of the following problem in using the M3T-NC308WA, M3T-NC30WA, M3T-NC79WA, and M3T-NC77WA C compilers (with an assembler and integrated development environment):

- On arguments of formatted input/output functions
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1. Products and Versions Concerned

M3T-NC308WA V.1.00 Release 1 through V.5.10 Release 1
for the M32C/80 and M16C/80 series MCUs

M3T-NC30WA V.1.00 Release 1 through V.5.10 Release 1
for M16C/60, M16C/30, M16C/20, and M16C/10 series MCUs

M3T-NC79WA V.2.00 Release 1 through V.4.10 Release 1A
for the 79xx series MCUs

M3T-NC77WA V.3.00 Release 1 through V.5.20 Release 4
for the 77xx series MCUs

2. Description

When the field width in the format specification of the following input/output functions is specified using the zero flag and an asterisk * not a decimal number but a character string is displayed:

- fprintf
- printf
- sprintf
- fprintf
- vprintf
- vsprintf

For example, the flags in the `printf("%0*d", keta, val)` format specification denote the following:

- 0: to right-align a decimal number and supply 0s enough to fill the number of digits to be displayed
- *: to interpret argument "keta" as the number of digits to be displayed
- d: to interpret argument "val" as a variable of type `int` and display it in a decimal number

However, an asterisk `*` that follows zero flag is not correctly interpreted to be a character in the format string, character string `"*d"` is displayed.

2.1 Example

```
-----  
#include <stdio.h>  
  
int main(void)  
{  
    printf("%0*d¥n",4,123);  
}
```

2.2 Workaround

Specify the field width in a decimal number.

```
-----  
#include <stdio.h>  
  
int main(void)  
{  
    printf("%04d¥n",123);  
}
```

3. Schedule of Fixing the Problem

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

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