

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 standard library functions `atof` and `strtod`

1. Products and Versions Concerned

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

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

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

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

2. Description

If the argument of a standard library function `atof` or `strtod` is a character string beginning with a period (for example, ".12345"), the result of the conversion of the function becomes zero.

3. Condition

This problem occurs under the condition that if all the spaces contained in the argument are omitted, its character string begins with a period.

4. Example

```
#include <stdlib.h>
```

```
double d;
```

```
int main( void )
```

```
{
```

```
    d = atof( ".12345" ); /* The character string of  
                           the argument begins with a period */
```

```
}
```

5. Workaround

Place a "0" in front of the period.

```
#include <stdlib.h>
```

```
double d;
```

```
int main( void )
```

```
{
```

```
    d = atof( "0.12345" );
```

```
}
```

6. Schedule of Fixing the Problem

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

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