

A Note on Using the Real-Time OSes M3T-MR308K/4 and -MR308S/4

Please take note of the following problem in using the real-time OSes M3T-MR308K/4 and -MR308S/4, which are used for the M32C/80, and M16C/80 series of MCUs:

- On issuing the `iunl_cpu` service call

1. Versions Concerned

M3T-MR308K/4 and -MR308S/4 V.4.00 Release 00 and V.4.00 Release 01

2. Description

When the `iunl_cpu` service call is issued, the IPL value of the FLG register may become indefinite. As a result, an interrupt that should be masked will be generated.

3. Condition

This problem occurs if the `iloc_cpu` service call is not issued, and the `iunl_cpu` service call is issued with the context being kept in the CPU-unlocked state.

4. Workaround

Do not issue the `iunl_cpu` service call with the CPU being unlocked; that is, issue it after judging that the CPU is locked using the `sns_loc` service call as shown in Example below.

Example

```
-----  
void handler(void)  
{  
    .....  
    if( sns_loc() ){ /* Judge CPU locked */  
        iunl_cpu();  
    }  
}
```

.....
}

5. **Schedule of Fixing the Problem**

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

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