

MAEC TOOL NEWS: MAECT-M3T-MR32R-030116D

A Note on Using Real-Time OS M3T-MR32R

Please take note of the following problem in using real-time OS M3T-MR32R for the M32R family MCUs:

- On using the `vcrc_mbx` system call which is the function of creating mailbox with priority
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1. Versions Concerned

M3T-MR32R V.3.20 Release 1 through V.3.40 Release 1

2. Description

When the `vcrc_mbx` system call issued, the OS kernel writes a zero into the address represented by the following expression:

$$(\text{ID No. specified by the argument of the } \text{vcrc_mbx} - 1) * 4$$

Then, the program may not properly be executed if the above address resides on RAM since a zero is written into it.

Note:

The program runs normally if the address concerned is on ROM because no zero can be written into it.

3. Workaround

Statically create mailboxes with priority by describing the definitions of them in the configuration file.

4. Schedule of Fixing the Problem

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

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