

RENESAS TOOL NEWS on August 1, 2005: RSO-M3T-MR308-050801D

A Note on Using the Real-Time OSes M3T-MR308 and M3T-MR30

Please take note of the following problem in using the real-time OSes M3T-MR30 and M3T-MR308 (which are used for the M16C family of MCUs):

- On using task pause function
-

1. Products Concerned

- (1) M3T-MR308 V.1.20 Release 1, Release 1A, and Release 1B
In this product, Problem 1 described in Section 2 arises.
- (2) M3T-MR308 V.1.00 Release 1 through V.1.20 Release 1B
M3T-MR30 V.3.00 Release 1 through V.3.30 Release 2
In these products, Problem 2 described in Section 2 arises.

NOTES:

M3T-MR308: used for the M32C/90, M32C/80, and M16C/80

M3T-MR30: used for M16C/60, M16C/30, M16C/20, M16C/10, and M16C/Tiny series

2. Description

Either of the following problems may arise if programs containing the task pause function of the products concerned are loaded into the emulator debugger to debug:

- Problem 1: The value of the program counter in a task that is in the PAUSE state is incorrectly displayed in the MR Task Pause window of the emulator debugger.
- Problem 2: The task cannot be exited from the PAUSE state. (If this problem occurs, application programs may not thereafter run properly.)

3. Conditions

- (1) Problem 1 inevitably occurs if a task is entered into the PAUSE state by pressing the PAUSE or COME button in the MR Task Pause window.
- (2) Problem 2 may occur if a task is entered into the PAUSE state by pressing the PAUSE button in the MR Task Pause window.

NOTE:

If task_pause is set to YES in the configuration file, neither Problem 1 nor Problem 2 above occurs unless the corresponding condition mentioned above is met.

4. Workaround

- (1) For Problem 1, stop executing the program once; then restart it. The value of the program counter will be correctly displayed.
- (2) For Problem 2, there is no solution. So reset the emulator debugger; then re-execute the program.

5. Schedule of Fixing the Problem

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

[Disclaimer]

The past news contents have been based on information at the time of publication. Now changed or invalid information may be included. The URLs in the Tool News also may be subject to change or become invalid without prior notice.