

A Note on Using Debuggers M3T-PD32RSIM, M3T-PD32RM, and M3T-PD32R

Please take note of the following problem in using the M3T-PD32RSIM simulator debugger and the M3T-PD32RM and M3T-PD32R emulator debuggers for the M32R family MCUs:

- On referencing a member of a struct or union
-

1. Products and Versions Concerned

- M3T-PD32RSIM V.2.00 Release 1 and V.2.00 Release 1A for the M32R family
- All the versions of M3T-PD32RM (used in combination with the M32100T3-SDI-E or M32100T-EZ-E emulator)
- M3T-PD32R V.4.00 Release 1 (used in combination with the M32xxxTx-SDI(-E) emulator)

2. Description

A member of a struct or union may not correctly be referenced. If you try referencing it, the debugger will unsuccessfully terminate in some cases.

2.1 Conditions

This problem occurs if the following three conditions are satisfied:

- (1) The M3T-CC32R cross-tool kit is running.
- (2) In the source program exists a member of a struct or union explained in (a) and (b) below:
 - (a) A member of the struct is a pointer array pointing to another struct or a union.
 - (b) A member of the union is a pointer array pointing to another union or a struct.

2.2 Example

In the example shown below, pA, a member of struct-type variable b, cannot be

referenced correctly.

Example in Condition (2)-(a)

```
-----  
struct A {  
    char ch[5];  
};  
  
struct B {  
    struct A * pA[1];  
} b;  
-----
```

3. Workaround

This problem can be circumvented by using the problem-fixed DLL file corresponding to your debugger. So, please replace the DLL file in your product with the problem-fixed one in the following steps:

(1) Download the problem-fixed DLL file you want.

The names and versions of the DLL file are as follows:

- Compressed file p32rsdll.zip (663KB):
p32rsdll.dll V.1.00.02 for the M3T-PD32RSIM V.2.00 Release 1A
- Compressed file p32rmedll.zip (513KB):
p32rmedll.dll V.1.20.01 for the M3T-PD32RM V.2.00 Release 1
- Compressed file p32redll.zip (511KB) :
p32redll.dll V.1.20.01 for the M3T-PD32R V.4.00 Release 1

(2) Decompress the downloaded file.

(3) With the decompressed file, overwrite the old one in the folder where the debugger has been installed.

(4) Confirm the version number of the new DLL file as follows:

- i. Launch your debugger.
- ii. Open the Help menu and select the About command. You see the Version dialog box.
- iii. Check to see that the version number displayed is that of the problem-fixed DLL file you want.

4. Schedule of Fixing the Problem

We plan to fix this problem in our 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.

© 2010-2016 Renesas Electronics Corporation. All rights reserved.