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Tuesday, May 1, 2018

Error programming to NXP MPC5748G UTEST

. May 1, 2018 at 09:30 AM (09:30 hours)

Staff: Takao Y.

[10 comments](#)

I'm using the NXP_MPC5748G_1x32x4k_UTest.pcp to try and program the UTEST flash on my MPC5748G. The PCP file is the latest downloaded from this website.

However, I get the following error:

```
CMD>EM
Command is inactive for this .PCP file.
Error Erasing flash of device
Error occurred during Flash programming.
```

I think the inactive erase command is correct, since we are writing to UTEST. How do I disable the EM command in this sequence?

[Comment #1](#) - May 1, 2018 - 09:30 AM (09:30 hours)

Comments

Greetings,

UTEST is One Time Programmable (OTP). Therefore erasing is not allowed. Why do you have EM in your sequence? Just never use it. Simply load your binary file using SS command and PM to program it.

Takao Yamada

[Comment #2](#) Takao Y. (PEMicro Staff) - May 1, 2018 - 09:34 AM (09:34 hours)

Thanks for your reply.

I'm currently running the pcp file from NXP's S32 environment.

I can see the CMD> prompt in my debugger console, but can't interact or type in commands. The sequence is pre-programmed by

S32.

How should I set up the debugger so that I can use the SS and PM commands like you suggested?

[Comment #3](#) . - May 1, 2018 - 04:08 PM (16:08 hours)

Greetings,

I see, you are using S32 IDE. Unfortunately this software will not be able to run the UTEST algorithms. We cannot make changes to the sequence of programming. The commands can be hand-selected if you use the PROG PPCNEXUS software.

You can download our free starter edition 64K of PROG PPCNEXUS here:

http://www.pemicro.com/downloads/download_file.cfm?download_id=194

Give this a try and see if you can program the binary file generated by S32 into your UTEST flash.

Takao Yamada

[Comment #4](#) Takao Y. (PEMicro Staff) - May 1, 2018 - 05:09 PM (17:09 hours)

Hi Takao,

Thanks for pointing out the PROG PPCNEXUS software. I've tried it, but I'm getting the following error popup when I try to connect to the board (it's a MPC5748G LCEVB):

"Target may have entered reset escalation. Please power cycle the board."

Even after I power cycle the board and click "OK", the console shows:

"Initializing. Cannot enter background mode. Check connections".

Any idea how to fix this?

I also was thinking about the existing UTEST PCP file. Is it possible to create a dummy EM function in the PCP file, so that when Eclipse calls EM, it's there, but doesn't actually do anything?

[Comment #5](#) . - May 2, 2018 - 09:49 AM (09:49 hours)

Greetings,

We will not be implementing the EM command into the algorithm. We have customers saying the exact opposite of you saying that EM command is deceiving because it does not do anything.

Make sure to lower the debug shift frequency and add 200ms reset delay before connecting to your device in PROG. Does your device have censorship already implemented? If so, make sure to put the password within the "advanced" options button before connecting to your device.

Takao Yamada

[Comment #6](#) Takao Y. (PEMicro Staff) - May 2, 2018 - 09:57 AM (09:57 hours)

Hi Takao,

I have added the delay and lowered the frequency. Now I am able to connect to the board and load the UTEST PCP.

I have also run the SS command and selected my SREC file.

When I click PM, I get another error:

"Demo software only - Number of PM commands exceeded".

I've never run PM before. How to enable PM commands?

[Comment #7](#) . - May 2, 2018 - 10:43 AM (10:43 hours)

Hi,

I've been experimenting a bit more with programming my DCF record into the UTEST. My DCF record is a single S3 entry saved in a SREC file. The file is definitely smaller than the 64K limit imposed on the starter edition, so it shouldn't be a size problem.

I believe the reason the PM command does not work for me is that the PROGPPCNEXUS software expects a EM command to be run before a PM can run. I've tried this out on the CFlash portion with a normal Hello World .elf. If I don't run EM first, I get that error message. If I run EM first, the PM command works fine.

I saw from this thread (http://www.pemicro.com/forums/forum.cfm?forum_topic_id=5766) that the EM command has been removed from UTEST. It seems that previously, the EM command was present in the PCP file and performed a NOP. This is the same as what I had suggested earlier in the post.

However, now that the EM command is now actually removed from the PCP file, it is no longer compatible with S32 IDE, and even the starter edition of PROGPPCNEXUS.

If I may suggest, should we put the EM command back into the UTEST PCP to ensure compatibility with the programming softwares? If not, it would be great if you could advise on how I can add the EM NOP into my own personal UTEST PCP.

Thanks!

[Comment #8](#) . - May 3, 2018 - 07:33 PM (19:33 hours)

Greetings,

An even better solution would be to allow the 64K version of software to work if the EM command does not exist. I still want the algorithm as is. We cannot have a command included with no real function.

I will need sometime to include this change. In the meantime, please create a support ticket on our support page so I can send you a beta version of the software so you can try this.

Takao Yamada

[Comment #9](#) Takao Y. (PEMicro Staff) - May 4, 2018 - 09:20 AM (09:20 hours)

Hi Takao,

Yes, agree that updating the 64K version of the software would be a better solution.

I have created a support ticket as you suggested.

Thanks for your help, and look forward to the beta version!

[Comment #10](#) . - May 4, 2018 - 07:03 PM (19:03 hours)

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