

Re: XXX_Init only being called once

Source:

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.platbuilder/2005-11/msg00418.html>

- *From:* "David Liao \ (MS)" <davli@xxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Sat, 12 Nov 2005 23:51:45 -0800
-

IST means Interrupt Service Thread. It is function that you passed in by calling CardRequestISR (I think).

According you description, it looks like it couldn't load your PCMCIA client driver successfully for second time.

What you thought is correct, This is probably caused by some application still using this driver stream interface even when this driver is deactivated. I think it only could be caused by your PCMCIA client driver blocks on stream interface IO Control, Read or Write call. All Driver's IO call is synchronous call in Windows CE, I believe PB requires all drivers have to unblock all blocking IO during XXX_Deinit or XXX_PreDeinit. When you remove the PCMCIA hardware, the pcc_serv.dll calls DeactivateDevice on pcmcia.dll that calls DeactivateDevice on you PCMCIA client driver. DeactivateDevice first calls either XXX_Deinit or XXX_PreDeinit. The DLL only be unloaded when reference count to driver's interface to zero. So, If you have blocking IO, the reference count to driver's interface will never reach to zero. So, the DLL is never unloaded (Even the XXX_Deinit is called). So, if you insert second time and if your driver is using same driver index (specified in registry), The driver loading may fails because the old stream interfaces is not released.

Second possibility is your client driver return fail on XXX_Init at second time because the previous instance has blocking IO on its interface or uninitialized driver's global variable.

Let me ask you more detail information.

When you insert your card second time, does XXX_Init call for second time?

After remove your PCMCIA card, does any other type of PCMCIA card continue to work (like CF card, Bluetooth card)?

Does your PCMCIA client driver support multiple same hardware?

David Liao.

"Thomas Magma" <somewhere@xxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:%23jZBVHm5FHA.724@xxxxxxxxxxxxxxxxxxxxxxxx

> Hi David,

>

> I am using the Dell Axim X51 with Mobile 5.0. And yes I am using the old

> PCMCIA client model, but I have been playing around a bit with the new

> Bus-Agnostic implementation.

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>
> pcc_serv.dll is always running under Device.exe, but when I plug my card
> in (the first time) pcmcia.dll and mydriver.dll then get loaded under
> Device.exe. Then I unplug my card and pcmcia.dll and mydriver.dll
> disappear. That is the way it should be, I think. But when I plug my card
> in a second time only pcmcia.dll gets loaded and not mydriver.dll. It's
> like mydriver.dll is being locked by another application. I can't even go
> into \windows\ and delete or write over mydriver.dll. I get a pop-up
> window that says "sharing violation". I have to do a hard reset.
>
> The Device Manager loaded it fine, why isn't it unloading it?
>
> What does "PCMCIA driver's IST " mean?
>
> Thomas
>
> "David Liao (MS)" <davli@xxxxxxxxxxxxxxxxxxxx> wrote in message
> news:erXTjrZ5FHA.884@xxxxxxxxxxxxxxxxxxxxxxxx
>> Which platform are you using to testing your PCMCIA driver ?
>> You obviously are using old PCMCIA client driver model which is loaded by
>> PCMCIA.DLL. Is this correct?
>>
>> I think usually smart phone turn on security feature and PDA turns off
>> security feature.
>>
>> Can you tell me whether you can find pcc_serv.dll in the system used for
>> testing? If this device is using new PC Card Controller driver, it should
>> have pcc_serv.dll in the system. Otherwise, it is old PCMCIA controller
>> driver.
>>
>> I think the PCMCIA driver's IST is blocked somehow. It can't unload your
>> driver for some reason.
>>
>> David Liao
>>
>> "Thomas Magma" <somewhere@xxxxxxxxxxxxxxxxxxxx> wrote in message
>> news:OufYjZN5FHA.2552@xxxxxxxxxxxxxxxxxxxxxxxx
>>> Steve,
>>>
>>> The previous was ignored thanks.
>>>
>>> I've looked at several peoples PCMCIA stream type interface code,
>>> including my own which I had functioning just fine on WM2002 and WM2003.
>>> The problem is with WM2005 and the fact it's not calling XXX_Init each
>>> insertion of the card. Only the first time after a PDA hard reset. It is
>>> like it's holding on the driver somehow yet not showing it as being
>>> loaded in Process Viewer. The reason I think this is because after I
>>> insert the card the first time and remove it, I can't go in through
>>> Active Sync and erase my driver. A pop-up says there is a sharing
>>> violation no matter if the card is in or out. Something is holding on to
>>> it. It this something to do with Persistence Storage? Perhaps a security

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◇ *From:* Thomas Magma

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