

Re: Preferred method to get interrupts

Source:

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.platbuilder/2006-09/msg00170.html>

- *From:* "Thomas Magma" <somewhere@xxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Wed, 6 Sep 2006 09:57:11 -0700
-

Thanks for your XXX_Deinit sequence, it is a little different from ours and I will give it a try when I get a chance. Are you saying that you have perfect port communications on the X51 just your ISR is not being called?

We first use CreateFile to point to the COM resource (XXX) which in turn calls the XXX_Open routine that looks like this:

```
LoadLibrary  
CardRegisterClient  
CardRequestWindow  
CardMapWindow  
InterlockedIncrement
```

If we were using ISR then I assume we would have put CardRequestIRQ in this XXX_Open routine. One of the problems we have is that WM 5.0 no longer appears to support CardMapWindow so I'm not sure how we're suppose to map the COM port anymore for data transfers.

I think the X51 CF problem stems from Dell trying to implement the new PC CARD structure, instead of what HP did and remove it from the OS. You can see this in the registry keys between 2003 vs HP 5.0 vs X51.

Here is a very long shot to solve your problem, it is a patch that was written for GPS CF card manufactures, but I have no idea what it does.

http://www.buygpsnow.com/support/issue_view.asp?ID=3704

Cheers,
Thomas

Re: Preferred method to get interrupts

"morehouse" <richard@xxxxxxxx> wrote in message
news:1157067271.887958.123880@xx

Hi Thomas,

On the x51, it does appear as the card does remain powered up. In 2003, I had to do the CardRequestConfiguration call to power up the card. On the x51, the card is powered up as soon as I insert it even without the CardRequestConfiguration call.

But I am able to enter the XXX_Init function every time I insert the card on both the iPAQ hx2495 and the x51. I don't get any problems with not being able to remove the driver .dll.

In my XXX_Deinit function the sequence is as follows:

1. CardDeregisterClient
2. LocalFree
3. InterlockedDecrement
4. InterlockedCompareExchange

I guess that's where we differ a little bit . I had problems with interrupts right from the start with 2003. So I quickly went to a polled IO and moved on. Polling works fine for us and I never looked back.

On the X51 when the card is inserted, the card is powered up, but stays powered. Did you notice this?, then XXX_Init is called as usual and the XXX_Deinit is called when the card is removed. Here is the kicker, when you insert the card a second time XXX_Init is never called again. On the X50 (WM2003) every time I insert and remove the card XXX_Init and XXX_Deinit are being called accordingly, but on the X51(WM5.0) XXX_Init is only being called the first time the card is inserted.

We got a driver to load in a similar fashion to yourself but what I found was that it appears as though the driver is being locked by another application, because after I insert and remove the card, my driver dll can never be erased from the \Windows directory or over written until I do a reset (Pop-up window says sharing violation), however, the driver doesn't show up as running in Process Viewer or as an active key.

Also the Kernel Tracker in eVC does not function which makes the whole problem tough to troubleshoot.

Re: Preferred method to get interrupts

Strange stuff. I'm not convinced that simply solving your interrupt problem will be your last problem on the X51. Let's hope I'm wrong.

Thomas

"morehouse" <richard@xxxxxxxx> wrote in message
news:1156982818.375151.207140@xx

Hi Thomas,

I have an IPAQ hx2495 but have been unable to get interrupts on that device also.

How far did you get on the x51? It seems as though I got to the point where the driver is successfully loaded. It's just that the ISR is never called more than once. To get the driver loaded i just put a key under HKLM\Drivers\PCMCIA\

The remaining issue I have is how to get the interrupts.

What steps did you have to take to get the interrupts on the iPAQ 2190? I could possibly follow them on the hx2495.

Did you use the CardRequestIRQ(...)/CardRequestConfiguration(...) method or the InterruptInitialize(...) method?

Any comments or leads in this matter would be greatly appreciated.

Regards,
Richard

Re: Preferred method to get interrupts