

Re: Driver gets dwIRQ = ffffffff, sysINtr = 00000000

Source:

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.platbuilder/2006-04/msg00522.html>

- *From:* "Nick" <spameater@xxxxxxxxxxx>
 - *Date:* Tue, 18 Apr 2006 17:47:17 -0400
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Dean and Remi,

I found the root cause of the problem. In the file C:\WINCE500\PLATFORM\CM_X255_BSP\SRC\KERNEL\OAL\intr_bsp.c there is code that assigns IRQ_PCIX to specific device IDs. Adding my device ID to this code allows the IRQ and SYSINTR to be assigned. I believe this falls under the "no IRQ support for this device" theory.

However, I do not get interrupts and my IST event never fires.

I suspect that it is because I chose the wrong IRQ_PCIX value (I chose D as a first try). I think my device (plx9054) or my platform has a restriction on which PCI interrupt it can use but I can't remember the details. Off to the data books...

Thanks,
Nick.

"Dean Ramsier" <ramsierospam@xxxxxxxxxxx> wrote in message <news:unXr89MXGHA.3848@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

The one in the platform will be built. Assuming it's the same name as the one in the public tree it will override due to order of operations in buildrel.

If you're getting a dwIRQ of 0xFFFFFFFF, that means your call to the OAL to get the IRQ for this PCI slot failed. That typically means the OAL doesn't know anything about this particular PCI location, or it could mean there is no IRQ support for this device, or it could mean the OAL hasn't been written to support PCI interrupts in general.

—

Dean Ramsier – eMVP
BSQUARE Corporation

"Nick" <spameater@xxxxxxxxxxx> wrote in message

Re: Driver gets dwlRQ = ffffffff, sysINtr = 00000000

news:ezqtFiLXGHA.3936@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

Remi,

It's a custom platform based on PXA255. We have the CE 5.0 BSP from the platform provider and are adding our PCI card to it so there is no BIOS.

The setting is commented out. I assume this means it will config but I can change it and try again.

```
; "NoConfig"=dword:0
```

In addition, I have found PCIBUS in two places.

```
C:\WINCE500\PUBLIC\COMMON\OAK\DRIVERS\PCIBUS
C:\WINCE500\PLATFORM\CM_X255_BSP\SRC\DRIVERS\PCIBUS
```

The DIRS files in the DRIVERS folder both define PCIBUS as a folder to compile. How do I know that the one I want (presumably NOT the public/common/oak/drivers/pcibus) is the one I get?

Thanks,
Nick.

"Remi de Gravelaine" <gravelaine at aton dash sys dot fr> wrote in message news:%23nnWftuWGHA.3864@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

Hi Nick,

Did the mechanisms for assigning resources
for either of these change
significantly from 4.2 to 5.0?

I am afraid it did.

What is your platform (do you have a BIOS that configures
the PCI bus
for you)?
What is your
[HKEY_LOCAL_MACHINE\Drivers\BuiltIn\PCI].NoConfig
setting?

Finally, you should break at PCICfgDevice() in
Public\Common\Oak\Drivers\Pcibus\PCICFG.C to see what
happens when it
comes to assign an IRQ to your device.

Good luck.

Re: Driver gets dwIRQ = ffffffff, sysINtr = 00000000

Remi