

Re: dual boot – Nvidia device driver

Source:

<http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.embedded/2006-01/msg00203.html>

- *From:* "ecoulson" <ecoulson@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Fri, 13 Jan 2006 14:24:04 -0800
-

Hi all,

I just had a chance to work on this again. The Intel Pro/1000 Dual MT dual Port Server Adapter proved to be much easier than the nvidia card. I found the eight files necessary on the CD that came with the board. DVD Driver: E:\PRO1000\WS03XP32 and put all the files in a component:
e1000msg.dll – C:\WINDOWS\system32
e1000325.inf – c:\windows\system32\inf
PROUnstl.exe – C:\WINDOWS\system32
e1000325.cat – c:\windows\system32\inf
e1000325.sys – c:\windows\system32\drivers
intelnic.dll – C:\WINDOWS\system32
created in Component Designer: component/repository/package/add group according to the instructions in the "Windows XP Embedded Advanced" book by Sean D. Liming. Then added to Componet Database and then target in target analyzer.

I had tried to import the inf but got a message that e1000325.inf was empty. I have seen that other people have had this same message when importing into Componet Designer. However, the custom component with just the 6 files seems to work.

I was worried that I didn't have any entries in Registry Data, Component or Group Dependency, or Build Order Dependency, or Resources. But it did not seem to matter.

I was also lucky because my mother board NIC is Intel Pro/1000 and that worked also.

Now on to the DVD/CD driver – then try to install my applicaton.

Thanks, Eric

"KM" wrote:

> Eric,
>

Re: dual boot – Nvidia device driver

> And again you should give us more info about the problem with network driver installation.
>
> FBALog.txt, SetupApi.log, Device Manager will provide you some insights on the issue.
>
>
> =====
> Regards,
> KM
>
>
> "ecoulson" <ecoulson@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:E4F63405-8B4D-40D2-8621-00A69AFFA7B9@xxxxxxxxxxxxxxxxxxxx
>>
>> Actually I was seeing two processors in task manager I was just too blind to
>> see. Then I turned on Hyperthreading in the bios and I saw four. Also 4 in
>> Device Manager. So this is one more hurdle down. However, none of my
>> network adapters took – neither my motherboard lan or my Intel Pro/100 MT
>> Dual Port Server Adapter. So I will work on this next. Well making some
>> progress is encouraging.
>>
>> "KM" wrote:
>>
>>> Eric,
>>>
>>> Please see my comments inline...
>>>
>>>> Thanks for the help. I did have a conflict with a componet that I created
>>>> myself after the initial failure of the import of devices.pmq. After I
>>>> deleted this initial attempt at a custom component for the NVidia Quadro FX
>>>> 1400 from the Component DB and created an image without a device driver, I am
>>>> able to install the nvidia driver manually after a boot of xpe. I then
>>>> tried to create another custom component for the Nvidia driver using
>>>> information in "Windows XP Embedded Advanced" by Sean D. Liming. I installed
>>>> Incntl5 – then uninstalled the driver in regular xp pro – then capured the
>>>>
>>>> With PnP drivers you don't need to mess with the InCtrl5 like tools. Your custom component just has to
place all driver files in
>>> appropitae windows folders (\windows\inf, \windows\system32\drivers, etc.).
>>>
>>>> files that were installed. Then created a component and a package and added
>>>> the to groups as the book mentions. However, I then still failed to install
>>>> this custom package. I had a service resource problem looking at the
>>>> setupapi.log so I disabled the service in the compenent designer in the
>>>> resource and then recreated the pacakge and then failed at another point. I
>>>>
>>>> Can we see you Setupapi.log?
>>>> Did you make sure all the driver dependencies are in your image?
>>>>
>>>>> see the you were trying to help someone else with the same problem and you
>>>>> mentioned dependency walker which I intalled and tired on nvclp.dll – it said
>>>>> that msjava.dll was not there so I added this but it did not help.

Re: dual boot – Nvidia device driver

>>>

>>> In Dependency Walker the missing msjava.dll info is almost always a bogus message. You can safely ignore it.

>>>

>>>> So I am thinking this is a lot of trouble and I am wondering if I need to componentize the driver anyway. I would probably be ok to run the driver install on the embedded image – as well as other drivers manually – then create an image for the factory.

>>>

>>> Yup. You can use the manual reseat technique:

>>> <http://msdn.microsoft.com/library/en-us/xpehelp/html/xeconConfiguringReseatPhase.asp>

>>> However, it doesn't save you from the missing dependencies problems. You will have to analyze and include required dependencies

>>> anyway.

>>> This is the reason I always prefer componentization rather than manual install of apps and drivers on XPe images.

>>> Also, don't forget that the manual install of some packages will require the presence of heavy MSI support components in your

>>> image.

>>>

>>>> I should say I am trying to evaluate Windows Embedded XP for a medical or biotech workstation that runs in a private subnet.

>>>

>>> The main rule with XPe is – if it can technically be done with XP Pro, it can be done with XPe.

>>> (the same binaries)

>>> Only legal restrictions are there but from your device description it doesn't seem you are crossing the borders.

>>>

>>>> Here are the requirements:

>>>> 1) I am using a dual processor xeon Precision 670

>>>> 2) I need dual graphics monitor – using Nvidia FX 1400 with two NEC monitors

>>>> 3) The applications retain state so if I update I would have to migrate some

>>>> configuration files besides replacing binaries

>>>

>>> Registry based settings? Or INI files to store the application settings?

>>> Unless by "update" you mean the entire image replacement. Then it would require you to move the data files to partition that will

>>> stay untouched during such image update process.

>>>

>>>> 4) I use DirectX 9.X

>>>

>>> The component is there in XPe repository.

>>> Aer you working with SP1 or SP2 database?

>>>

>>>> 5) I want to lock down short cut keys (is this possible with Embedded XP ?)

>>>

>>> Possible with most of the keys. But some key combinations may require more work.

>>>

<http://msdn.microsoft.com/library/en-us/xpehelp/html/xeconBlockingCTRLALTDELETEKeyboardAccess.asp>

>>>

>>>> 6) I want to lock down the computer so it can only run this biotech

Re: dual boot – Nvidia device driver

> >> > application (group policy ??)

> >>

> >> Well.. group policies here would really be helpful to lock down Explorer based shell.

> >> If you implemented your own custom shell you could restrict the user as you'd want to.

> >> <http://msdn.microsoft.com/library/en-us/xpehelp/html/xeconShell.asp>

> >>

> >> > 7) We need to update applicaiton software, os service packs, drivers.

> >>

> >> DUA, SUS, SMS, your custom client.

> >>

<http://msdn.microsoft.com/library/en-us/dnxpesp2/html/XPESP2SERVServicingWithWindowsXPEmbeddedWithServ>

> >> <http://msdn.microsoft.com/library/en-us/xpehelp/html/xeoriRun-TimeImageManagementServicing.asp>

> >>

> >> > 8) Need to create image that can be deployed in factory then updated per

> >> > customer options.

> >>

> >> Use XPe cloning.

> >> <http://msdn.microsoft.com/library/en-us/xpehelp/html/xeoriMassDeployment.asp>

> >>

<http://msdn.microsoft.com/library/en-us/xpehelp/html/xetbsCreatingMasterRun-TimeImageForCloning.asp>

> >>

> >> > Well so far:

> >> > I can't see two processors in TaskManager

> >>

> >> What does Device Manager show?

> >>

> >> Make sure you are working with the right chipset drivers.

> >>

> >> If you install XP Pro on the target are you able to see both processors?

> >>

> >> > I am having problems with vidio card.

> >> > The network card does not import (I could do this manually)

> >>

> >> Again, go for componentization. Also, always analyze the SetupApi.log and FBALog.txt files.

> >>

> >> > Questions:

> >> > Is XPE a good choice ?

> >>

> >> I don't see any reason why not. If XP Pro meets your device needs, XPe will likely do the same.

> >>

> >> Although I would also recommend you to take a look at Microsoft Windows CE OS. Then, if acceptable, you could get much lower

> >> licence

> >> costs.

> >>

> >> > Can I manually install the drivers then create an image that I install in

> >> > factory.

> >>

> >> Yup. See the cloning/reseal link mentioned above.

> >>

> >> > – what about the oem license id for xpe that needs to be different for every image ?

Re: dual boot – Nvidia device driver

> >>

> >> You just have to buy a license that covers all devices of the same type you plan to distribute.

> >> You can create one image using just one PID number that you receive from XPe distributor. This is applicable to all the devices

> >> covered by the license and sealed with the provided COA stickers.

> >> An XPe distributor will explain you the process much better so do not hesitate to contact any of them.

> >>

> >> =====

> >> Regards,

> >> KM

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• **References:**

◆ **RE: dual boot – Nvidia device driver**

◇ From: ecoulson

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• Prev by Date: **Re: File Ownership Lost After FBA... Please Help!**

• Next by Date: **Re: OCX registration**

• Previous by thread: **Re: dual boot – Nvidia device driver**

• Next by thread: **Update of Tutorial Version 3 for USB BOOT**

• Index(es):

◆ **Date**

◆ **Thread**