

microsoft.public.windowsxp.embedded: Re: NI 6025 GPIO device under XPe – anyone done this?

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Source:

<http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.embedded/2004-10/0217.html>

From: Bernie Fowler (*bern_at_fowlerseng.co.uk*)

Date: 10/06/04

Date: Wed, 6 Oct 2004 20:39:42 +0100

The reason why files are on server is because this is 'defence application' and the files must not persist on the target – i.e. they are classified and reside on a removeable disk.

There are many inf files, many .sys files and many drivers – if I install the 'minimal' device drivers on XPP , initially there is 60MB of files – a lot of this is documentation and developer support. The card also requires an application NI call Measurement Explorer which initiates the registry and possible other things(?)

If I use NI installation routines I get a message 'Wrong OS Version' – do you know a way of getting XPe to report a version similar/the same as XP Pro?

Thanks for your suggestions I will follow these up tomorrow.

Bernie

"Slobodan Brcin (eMVP)" <sbrcin@ptt.yu> wrote in message news:e1Do5rtqEHA.3744@TK2MSFTNGP10.phx.gbl...

> *Hi Bernie,*

>

> *I can't understand why do you want to keep some files on server. Why not*

> *all XPe files or no files at all scenario.*

> *Also I have never seen this card, so I can only speak theoretically based*

> *on other hardware and driver experience.*

>

> *Ai)*

> *From Device Manager on your XP Prof you can see all files associated with*

> *driver itself.*

> *Also same info you can read from inf file. There is a section that list*

> *all required files and where they should be put.*

>

> *Aii) How many inf files is provided by this package?*

> *Anyhow if they are pure hardware drivers then you can safely make*

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- > *component that will copy them to inf folder on XPe image.*
- > *If there are software drivers than you will have to preinstall them from*
- > *your component.*
- > *Type of driver can be determined easily by examining enum branches in*
- > *registry or by look from Device Manager.*
- > *Same thing can be determined by examining inf file itself and checking*
- > *PnPID (VID/PID) numbers presence.*
- >
- > *Aiii,Aiv) Depending on what setup/wizard app configure you could be*
- > *required to put some config values in registry from your*
- > *component.*
- > *Use regmon, and regedit to determine what values are used exactly by*
- > *installation.*
- > *Depending on config values used you might be required to write either your*
- > *application or to modify inf file to set hardware device*
- > *specific defaults.*
- >
- > *Av) For start try making it work locally. Or on XPP that pull files*
- > *remotely.*
- >
- > *Best regards,*
- > *Slobodan*
- >
- > *PS:*
- > *Do not use CD inf file auto import option. But do things manually.*
- >
- >
- > *"Bernie Fowler" <bern@fowlerseng.co.uk> wrote in message*
- > *news:416289bf\$0\$44857\$ed2619ec@ptn-nntp-reader02.plus.net...*
- >> *The following is an e-mail I submitted to the NI support group to*
- >> *summarise*
- >> *what I am trying to achieve – hope this helps (?)*
- >>
- >> *I have developed a PC console application using Visual Studio.NET which*
- >> *makes use of the NI 'Traditional DAQ' interface supplied as part of the*
- >> *NI*
- >> *CVI included in the NI Measurement Studio Package. This interface is used*
- >> *to*
- >> *interface to an NI 6025E GPIO board (Compact PCI version). The initial*
- >> *development has been carried out using XP Professional on a Kontron CP304*
- >> *based 'standard' cPCI PC system (Hard disk, Network, CD etc. etc.).*
- >>
- >> *My target system is (again) Kontron CP304 cPCI but configured as an*
- >> *embedded*
- >> *system with the following attributes,*
- >>
- >> *256MB Compact Flash*
- >>
- >> *No Hard Disk or CD*
- >>
- >> *Ethernet link*

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>>
>> 512MB RAM
>>
>> XP Embedded operating system
>>
>> My design assumes that we have a mapped drive to a file server and all
>> files
>> (as far as possible) are stored on the server (this includes applications
>> and DLLs). The only files required on the target system (in my opinion)
>> are
>> the Kernel Device driver files (e.g. NIDAQ.SYS and XXXX.INF). I include
>> these files into the XPe Target Designer system which builds a
>> pre-configured O/S image with the drivers in place. I have used this
>> method
>> (with success) with another hardware cPCI card and associated drivers.
>>
>> I consider our requirements for the NI system are as follows,
>>
>> i) A list of the Device driver files (*.SYS) required for the NI6025E
>>
>> ii) A list of the Device driver information files (*.INF) required for
>> the
>> NI6025E
>>
>> iii) Any registry settings for the drivers/hardware
>>
>> iv) Confirmation that we do not need to run NIs Measurement Explorer to
>> setup the hardware
>>
>> v) A list of the DLLs required (on the server system) – we can probably
>>
>> establish this by
>>
>> trial and error if the information is not readily to hand.
>>
>> Regards,
>>
>> Bernie Fowler
>>
>>
>>
>> "Bernie Fowler" <bern@fowlerseng.co.uk> wrote in message
>> news:415e6b74\$0\$17928\$ed2619ec@ptn-nntp-reader02.plus.net...
>> > Hi
>> > I am having difficulty installing device drivers for National
>> > Instruments
>> > 6025E hardware under XPe.
>> > Has anyone out there tackled this or a similar problem using NI
>> > hardware?
>> >
>> > Bernie

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