

Re: Accessing peripherals from a managed application

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<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.app.development/2006-06/msg00062>

- *From:* "Paul G. Tobey [eMVP]" <p space tobey no spam AT no instrument no spam DOT com>
 - *Date:* Thu, 15 Jun 2006 10:33:42 -0700
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How would a C/C++ program talk to the driver? You'll do exactly the same thing from managed code. Maybe you open the driver with CreateFile(), and read and write to it with ReadFile() and WriteFile(). If that's the case, you'd P/Invoke to those API calls from managed code, yes. You don't somehow import everything in coredll.dll. You declare the functions that you want to call, indicating that they are in coredll.dll (*if* they are in coredll.dll and not some other DLL), and then call them.

Paul T.

"Mario" <alphantommy@xxxxxxxxxxxx> wrote in message
<news:1150392387.307256.105420@xx>

Bruce,

Thanks for the post. I do have the drivers for the hardware since they came with the devevelopment board. What I have not figure out is how to access to the driver from a managed application. From what I have gathered, this is the sequence for developing a managed application with VS2005 and PB (WinCE 5.0)

1. Create an OS image wtih PB.
2. Somehow figure out the headers contained in coredll.dll
3. use dllimport to import coredll.dll in the managed application in VS2005.
4. Call on the imported functions to access the hardware.

Am I far off? The first experiment that I want to do is just to send some data through the SPI or UART from a managed app. Again, thanks for any additional input.

Best Regards,

Mario

Re: Accessing peripherals from a managed application

Bruce Eitman (eMVP) wrote:

Mario:

Since nobody else replied, I will. I am not a Managed App developer, but I can tell you how this is typically done.

Typically, the hardware is accessed via a driver written in C/C++, then a managed app accesses the driver to access the hardware. It is intentionally difficult, or impossible, to access hardware from managed code.

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"Mario" <alphantommy@xxxxxxxxxxx> wrote in message
news:1149526298.777516.168540@xx

Hi,

I would appreciate it if someone could point me to a link, docs, or tutorials regarding peripheral access from a managed application. Things that I am interested in includes simple initialization and usage of the SPI interface or GPIOs. I am using XScale with Win CE 5.0 and developing the managed application with VS2005(C#). Thanks in advance.

Best Regards,

Mario