

Re: GUI interface to an embedded system

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- *From:* "Peter Dickerson" <firstname.lastname@xxxxxxxxxxxxxxxxxxx>
 - *Date:* Wed, 06 Jun 2007 09:11:15 GMT
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"GMM50" <gfm5050@xxxxxxxxxx> wrote in message
<news:1181068872.313050.19060@xx>

On Jun 5, 2:14 pm, Grant Edwards <gra...@xxxxxxxxxx> wrote:

On 2007-06-05, GMM50 <gfm5...@xxxxxxxxxx> wrote:

I'm developing an embedded system with Ethernet, USB and Serial ports. I want to provide a GUI interface which the user can use to configure and program the system. One approach is to use java and deliver a compiled/compressed file to a browser that provides that gui interface.

My question is are there alternatives to this approach that I can use with either the USB or Serial interfaces?

Sure. Put a web server in your device. You can use either a normal HTML interface, JavaScript, or Java.

And can I download and run that software using the USB or serial ports?

To get USB to work you need device drivers that understand your device. You could use a USB-Serial chip, which looks like a serial port to a PC – though it still may need a driver (from the chip supplier) there. At that point you can use USB like a com port and run PPP/SLIP to get TCP/IP. Now you implement a web server in you machine, accessible over the COM port from a web browser.

If you have ethernet, then this is the way to go because the PC side will already have all it needs. The complication is configuring the device TCP/IP

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setup e.g. when the PC connects to the device via routers and firewalls.

Peter

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