Subject: Need pointers for USB HID
Posted by jerson on Sun, 13 Mar 2022 06:19:00 GMT
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Greetings all

I've been away from PC side coding for quite a while and I am totally blind on how to implement USB HID interface with an OWON Digital Storage Oscilloscope (DSO) for Windows and / or Linux.

I am requesting for any pointers to example code that may be easy for a newbie level person to follow though I have done some work in UPP in the past.

Any help appreciated.

Thanks

Subject: Re: Need pointers for USB HID
Posted by Zbych on Sun, 13 Mar 2022 19:44:37 GMT
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First step should be checking if somebody already created communication library.
If not (which I doubt), check HID usage tables reported by device
https://www.usb.org/hid
https://www.usb.org/sites/default/files/documents/hut1_12v2. pdf

If your device reports back as "generic hid", you need to get a description of "reports" that device recognizes, since they are device specific.

To be honest, I really doubt that your oscilloscope uses USB HID class, it is just to slow to send measurement information to a PC.

Subject: Re: Need pointers for USB HID
Posted by jerson on Mon, 14 Mar 2022 02:54:16 GMT
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Thanks for your valuable inputs.

The protocol supported by the USB device is called UHCI_HCD. I found a sample code online called owondump and am trying to get it to compile, but it failed complaining of libudev.h being missing. I just installed the libudev-dev package and hope the example code will compile. That will be a good starting point I think.

Regards