

PhonyBL - Feature #314

Use USB CDC connection for bootloader

14.11.2022 12:40 - Maximilian Seesslen

Status:	Erledigt	Beginn:	14.11.2022
Priorität:	Normal	Abgabedatum:	
Zugewiesen an:	Maximilian Seesslen	% erledigt:	0%
Kategorie:		Geschätzter Aufwand:	0.00 Stunde
Zielversion:		Aufgewendete Zeit:	0.00 Stunde
CS Zielversion:			
Beschreibung			
Not sure if it works out of the box with ttyACM; maybe the USB-code in biwak has to be changed to let the device appoeear as real virtual com port.			

Historie

#1 - 14.11.2022 12:53 - Maximilian Seesslen

A copy from "lsusb -v" of an FTDI-adapter

```
Bus 001 Device 012: ID 0403:6001 Future Technology Devices International, Ltd FT232 Serial (UART) IC
Device Descriptor:
  bLength                18
  bDescriptorType         1
  bcdUSB                  2.00
  bDeviceClass             0
  bDeviceSubClass          0
  bDeviceProtocol          0
  bMaxPacketSize0          8
  idVendor                 0x0403 Future Technology Devices International, Ltd
  idProduct                0x6001 FT232 Serial (UART) IC
  bcdDevice                6.00
  iManufacturer            1 FTDI
  iProduct                 2 TTL232R-3V3
  iSerial                  3 FTGQK07A
  bNumConfigurations       1
Configuration Descriptor:
  bLength                  9
  bDescriptorType          2
  wTotalLength             0x0020
  bNumInterfaces           1
  bConfigurationValue      1
  iConfiguration           0
  bmAttributes              0x80
    (Bus Powered)
  MaxPower                 90mA
Interface Descriptor:
  bLength                  9
  bDescriptorType          4
  bInterfaceNumber         0
  bAlternateSetting        0
  bNumEndpoints            2
  bInterfaceClass          255 Vendor Specific Class
  bInterfaceSubClass       255 Vendor Specific Subclass
  bInterfaceProtocol       255 Vendor Specific Protocol
  iInterface                2 TTL232R-3V3
Endpoint Descriptor:
  bLength                  7
  bDescriptorType          5
  bEndpointAddress         0x81  EP 1 IN
  bmAttributes              2
    Transfer Type            Bulk
    Synch Type               None
    Usage Type               Data
  wMaxPacketSize           0x0040  1x 64 bytes
  bInterval                0
```

```

Endpoint Descriptor:
  bLength          7
  bDescriptorType   5
  bEndpointAddress  0x02  EP 2 OUT
  bmAttributes      2
    Transfer Type      Bulk
    Synch Type         None
    Usage Type         Data
  wMaxPacketSize    0x0040  1x 64 bytes
  bInterval         0
can't get device qualifier: Resource temporarily unavailable
can't get debug descriptor: Resource temporarily unavailable
Device Status:      0x0000

```

#2 - 16.11.2022 10:30 - Maximilian Seesslen

Connection works.
 Packet-Size in USB-Class fixed.

Update still does not work. Phony-BL get timeouts.

#3 - 17.11.2022 14:10 - Maximilian Seesslen

The buffer in the usb_class is only 0x10.

#4 - 18.11.2022 15:34 - Maximilian Seesslen

Buffer-ring is implemented.
 But its still copied within the ISR.
 Need to leave the ISR and to call the eventloop.

Easiest way to test it is to have an eventloop in CIOStream.
 Clean solution is not to block in phonyBL.

#5 - 21.11.2022 10:56 - Maximilian Seesslen

- Status wurde von Neu zu Erledigt geändert
- Zugewiesen an wurde auf Maximilian Seesslen gesetzt

Well, it works.