

USB Bluetooth setup using kernel 2.6.7: HCI and USB

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I have been trying to get a USB bluetooth device to work on my PC for a few days and I've hit a road block. I have successfully recompiled the kernel to have all of the Bluetooth modules built in as well as the usb modules OHCI, EHCI and UHCI. As a matter of fact, the Bluetooth part is not even an issue since I don't have the USB 'thing' working correctly. The main thing I need help with is getting the HCI subsystem to work with USB. Below are the steps I've taken:

Before adding modules (ohci-hcd, bcm203x)

```
-----  
ls /proc/irq  
0 1 10 11 12 13 14 15 2 3 4 5 6 7 8 9  
prof_cpu_mask
```

```
[root@localhost irq]# lspci -v | grep HCI  
00:13.0 USB Controller: ALi Corporation USB 1.1  
Controller (rev 03) (prog-if 10 [OHCI])  
[root@localhost irq]# lsmod  
Module Size Used by  
autofs 14724 -  
3c574_cs 14696 -
```

```
-----start -----INFO CENTER(RedHat info center)
```

```
Interrupts  
irq 11, XT-PIC yenta,yenta
```

```
Pci  
00:13.0 USB Controller: ALi Corporation USB 1.1  
Controller (rev 03) (prog-if 10 [OHCI])  
Subsystem: ALi Corporation USB 1.1 Controller  
Flags: medium devsel, IRQ 11  
Memory at fedff000 (32-bit, non-prefetchable)  
[disabled] [size=4K]
```

```
-----end -----INFO CENTER(RedHat info center)
```

```
[root@localhost root]# lsusb
Unknown line at line 58
Unknown line at line 2296
Unknown line at line 2297
...
```

After modprobe ohci-hcd bcm203x

```
-----
[root@localhost root]# lsusb
Unknown line at line ....
Bus 001 Device 002: ID 0a5c:2033 Broadcom Corp.
BCM2033 Bluetooth
  Language IDs: none (invalid length string descriptor
  1f; len=10)
Device Descriptor:
  bLength 18
  bDescriptorType 1
  bcdUSB 1.01
  bDeviceClass 224
  bDeviceSubClass 1
  bDeviceProtocol 1
  bMaxPacketSize0 64
  idVendor 0x0a5c Broadcom Corp.
  idProduct 0x2033 BCM2033 Bluetooth
  bcdDevice 0.a0
  iManufacturer 0
  iProduct 0
  iSerial 0
  bNumConfigurations 1
```

```
less /proc/bus/usb/devices
T: Bus=01 Lev=01 Prnt=01 Port=00 Cnt=01 Dev#= 2
Spd=12 MxCh= 0
D: Ver= 1.01 Cls=e0(unk. ) Sub=01 Prot=01 MxPS=64
#Cfgs= 1
P: Vendor=0a5c ProdID=2033 Rev= 0.a0
C:* #Ifs= 3 Cfg#= 1 Atr=a0 MxPwr=100mA
I: If#= 0 Alt= 0 #EPs= 3 Cls=e0(unk. ) Sub=01 Prot=01
Driver=(none)
```

```
-----start -----INFO CENTER(RedHat info center)
  Interrupts
irq 11, XT-PIC yenta,yenta,ohci_hcd
-----end -----INFO CENTER(RedHat info center)
```

So what I am trying to accomplish is to be able to attach my USB Bluetooth device to the HCI subsystem using hciconig or hciattach. Is the fact that irq 11 is shared between yenta and ohci_hcd a problem? The system does recognize the USB Bluetooth device but a listing of the device does not show that the proper (bcm203x) driver is attached

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to it. Simply adding the bcm203x module does not fix a thing.
What else am I missing? What other troubleshooting steps can I take?