

This page will try to document my long-living dream of having bluetooth software keyboard HID serial port and other stuff

- <https://wiki.archlinux.org/index.php/bluetooth>

git rot13.org

Contents: [Dobrica Pavlinu's random unstructured stuff]

- [Dobrica Pavlinu's random unstructured stuff \(xkbd-bthid : a software Bluetooth HID Keyboard\)](#)
 - ◆ [Dobrica Pavlinu's random unstructured stuff \(My Changes\)](#)
- [Dobrica Pavlinu's random unstructured stuff \(serial SP\)](#)
 - ◆ [Dobrica Pavlinu's random unstructured stuff \(modify systemd script\)](#)
 - ◆ [Dobrica Pavlinu's random unstructured stuff \(bring up device and make it discoverable\)](#)
 - ◆ [Dobrica Pavlinu's random unstructured stuff \(serial server\)](#)
 - ◆ [Dobrica Pavlinu's random unstructured stuff \(serial client\)](#)

xkbd-bthid : a software Bluetooth HID Keyboard

- <http://mulliner.org/bluetooth/xkdbthid.php>

My Changes

[git.rot13.org Git - xkdbthid.git/rss log](http://git.rot13.org/Git-xkdbthid.git/rss-log)

- [already defined in sdp_lib.h](#)
- [use system libraries](#)
- [install debian dependencies](#)
- http://mulliner.org/bluetooth/xkdbthid-0.1_src.tar.gz

serial SP

modify systemd script

```
tab:~# sdptool browse local
Failed to connect to SDP server on FF:FF:FF:00:00:00: No such file or directory

tab:~# vi /etc/systemd/system/bluetooth.target.wants/bluetooth.service

#ExecStart=/usr/lib/bluetooth/bluetoothd
# make sdptool browse local work again!
ExecStart=/usr/lib/bluetooth/bluetoothd --compat

tab:~# systemctl daemon-reload
tab:~# systemctl restart bluetooth.service
```

bring up device and make it discoverable

```
root@rpi2:~# hciconfig
hci0:   Type: BR/EDR   Bus: UART
        BD Address: B8:27:EB:A3:88:32  ACL MTU: 1021:8  SCO MTU: 64:1
        DOWN
        RX bytes:9088 acl:39 sco:0 events:343 errors:0
        TX bytes:8208 acl:44 sco:0 commands:265 errors:0

root@rpi2:~# hciconfig hci0 up

root@rpi2:~# hciconfig
hci0:   Type: BR/EDR   Bus: UART
        BD Address: B8:27:EB:A3:88:32  ACL MTU: 1021:8  SCO MTU: 64:1
        UP RUNNING PSCAN
        RX bytes:9784 acl:39 sco:0 events:382 errors:0
        TX bytes:8967 acl:44 sco:0 commands:304 errors:0

root@rpi2:~# hciconfig hci0 piscan
```

serial server

```
root@nuc:~# sdptool browse local | grep SP
root@nuc:~# sdptool add --channel=3 SP
Serial Port service registered
root@nuc:~# mknod -m 666 /dev/rfcomm0 c 216 0
root@nuc:~# rfcomm watch /dev/rfcomm0 3 /sbin/agetty rfcomm0 115200 linux
Waiting for connection on channel 3
Connection from B8:27:EB:A3:88:32 to /dev/rfcomm0
Press CTRL-C for hangup
Disconnected
Waiting for connection on channel 3
```

serial client

```
root@rpi2:~# sdptool browse local | grep SP
root@rpi2:~# hcitool scan
Scanning ...
        E0:2A:82:90:2D:7B          nuc
root@rpi2:~# sdptool add --channel=3 SP
Serial Port service registered
root@rpi2:~# rfcomm connect /dev/rfcomm0 E0:2A:82:90:2D:7B 3
Connected /dev/rfcomm0 to E0:2A:82:90:2D:7B on channel 3
Press CTRL-C for hangup
```