VBAN for Linux

https://github.com/quiniouben/vban

I've used Voicemeeter Banana and Potato for a long time to do advanced audio management on my various computers, including streaming audio from various computers in the house to my laptop and vice versa.

VBAN for Linux allows me to incorporate some older laptops (that have trouble running Windows but no problem running Ubuntu Desktop) into my various setups. Primarily I use a second laptop to stream Youtube or Udemy videos while I'm using my primary Windows laptop. Bluetooth headset is connected to the primary laptop and all other audio sources are sinked to it. □□

Configuring Ubuntu 20.04 to sink audio and use vban_emitter to stream to a VBAN receiver

Preparing Pulseaudio

```
#!/bin/bash


pactl load-module module-null-sink sink_name=vbanmix


# use "pactl info" or "pactl list" to find the proper alsa_output interface
pactl load-module module-combine-sink channels=2 slaves=vbanmix,alsa_output.pci-
0000_00_1b.0.analog-stereo


pactl set-default-source vbanmix.monitor
```

Running vban_emitter

```
#!/bin/bash


IPADDR=10.10.10.10
UDPPORT=6980
STREAMNAME=Linux_Laptop
SAMPLERATE=48000
```

```
AUDIOBACKEND=pulseaudio


vban_emitter --ipaddress=$IPADDR --port=$UDPPORT --streamname=$STREAMNAME --
backend=$AUDIOBACKEND --rate=$SAMPLERATE
```

Running on a headless system

After banging my head against the wall for weeks trying to figure out how to get vban_emitter working on a Raspberry Pi and an f80a, here's what I found.

By default, Pulseaudio only works with a user logged in directly to the system. After trying to get Pulseaudio setup to run in system mode, I realized it's much easier to just leverage ALSA directly.

The default ALSA configuration is set to use CARD 0. When using USB devices, these are inserted as CARD 1. In order to use this, you need to either update or create the /etc/asound.conf file with the information below:

```
# /etc/asound.conf
defaults.pcm.card 1
defaults.ctl.card 1
```

Here's the vban_emitter command to use:

```
vban_emitter -i IP_ADDRESS -p 6789 -s STREAM_NAME -b alsa
```

-end

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