Songlib: tracklink

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# Introduction

This tutorial assumes Ubuntu Linux running the ALSA Sound Server, although this should work for other versions of Linux and other sound servers, with appropriate modifications.

You should have a shell script named *record* that uses the also audio driver. You will also need to install *ecasound* and *sox*:

```
sudo apt-get install ecasound sox
```

**Step 1** Using the Hosa Tracklink USB cable, connect your microphone to your laptop. If you run the following command:

```
record
```

without any arguments, you should see a message similar to:

```
you must specify a sound card number!

0 [PCH ]: HDA-Intel - HDA Intel PCH

HDA Intel PCH at 0xe3d40000 irq 44

1 [Interface ]: USB-Audio - Tracklink USB Interface

Hosa Technology, Inc. Tracklink USB Interface at ...
```

Card 0 is your internal sound card while card 1 should be the Hosa Tracklink.

Step 2 Turn the volume button on the Hosa Tracklink all the way up (clockwise). This control is on the top of the small brick in the middle of the cable. The Tracklink supports both condensor and dynamic mics. For condensor mics, turn on the phantom power; the phantom power switch is on the side of the brick. If the phantom power is on, the 48V LED will light up.

Step 3 Now you need to set the levels. In one terminal window, run the command:

```
alsamixer -c 1
```

In another window, run the command:

```
monitor 1
```

Plug in some good headphones into your computer and then speak into the mic. You should hear your voice through the headphones, with a slight delay. Using *alsamixer*, make sure your master, pcm, and headphones are near 100%. Now you want to adjust the volume control on the Tracklink until you have the loudest result in your headphones WITHOUT any annoying buzz or hiss. Note that only one side of your head phones will change during this volume adjustment since the mic is monophonic. Stop monitoring in the monitoring window with a <Ct1>-c.

# **Step 4** To record, enter the command:

### record 1

At the ecasound prompt, press t to start recording, s to stop recording, and q to quit. Note that if you want to record with the built-in device, you would enter the command:

#### record 0

After recording, play the file track.wav back through the laptop speakers to make sure you have recorded properly:

# play track.wav

If you experience clipping, reduce the loudness of your voice or reduce the volume control on the Tracklink. If you want to save the recording, save track.wav under another name, since subsequent recordings will overwrite track.wav.