We have logitech usb audio device and Raspberry Pi 3 Model B, first of all open the terminal and run the command

|  |  |
| --- | --- |
| 1 | pi@raspberrypi:~ $ lsusb |

the output should be like below

|  |  |
| --- | --- |
| 1  2  3  4  5  6 | Bus 001 Device 005: ID 1a2c:0023 China Resource Semico Co., Ltd  Bus 001 Device 004: ID 04ca:0061 Lite-On Technology Corp.  Bus 001 Device 006: ID 046d:0a37 Logitech, Inc.  Bus 001 Device 003: ID 0424:ec00 Standard Microsystems Corp. SMSC9512/9514 Fast Ethernet Adapter  Bus 001 Device 002: ID 0424:9514 Standard Microsystems Corp.  Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub |

You can see your audio device in the list, here Logitech, Inc. in my case.

Next run this command

|  |  |
| --- | --- |
| 1 | pi@raspberrypi:~ $ cat /proc/asound/modules |

The output will be like

|  |  |
| --- | --- |
| 1  2 | 0 snd\_bcm2835  1 snd\_usb\_audio |

The 0 shows the default device is inbuilt sound card, so we have to make our usb sound card as default audio device.

Now to make the usb as default device edit the alsa-base.conf file which should be in /etc/modprobe.d folder, but this file is missing in Raspberry Pi 3 Model B, so we will create this file, you can use any editor, here I am using Vim editor,

|  |  |
| --- | --- |
| 1 | sudo  vim /etc/modprobe.d/alsa-base.conf |

Now paste the below code in ‘alsa-base.conf’ file

|  |  |
| --- | --- |
| 1  2  3  4  5  6 | # This sets the index value of the cards but doesn't reorder.  options snd\_usb\_audio index=0  options snd\_bcm2835 index=1    # Does the reordering.  options snd slots=snd-usb-audio,snd-bcm2835 |

reboot the raspberry.

Now again run the command ‘cat /proc/asound/modules’

The output will be

|  |  |
| --- | --- |
| 1  2  3 | pi@raspberrypi:~ $ cat /proc/asound/modules  0 snd\_usb\_audio  1 snd\_bcm2835 |

Run this command:

|  |  |
| --- | --- |
| 1 | arecord -l |

Output:

|  |  |
| --- | --- |
| 1  2  3  4 | \*\*\*\* List of CAPTURE Hardware Devices \*\*\*\*  card 0: H540 [Logitech USB Headset H540], device 0: USB Audio [USB Audio]    Subdevices: 1/1    Subdevice #0: subdevice #0 |

Now to record the audio,  run the following command on terminal.

|  |  |
| --- | --- |
| 1 | arecord -D plughw:0,0 -f cd test.wav |

Here 0 is for card 0.

If we use -d option of arecord then after specified duration the file name will become test-01.wav test-02.wav .. so on.

In next blog we will record the 15 sec audio using node js.

Thanks

Reference : <http://raspberrypi.stackexchange.com/questions/40831/how-do-i-configure-my-sound-for-jasper-on-raspbian-jessie>