NVIDIA Jetson AGX Orin 64GB Setup

Setup VNC server on the Jetson developer kit

I am following the howto: https://developer.nvidia.com/embedded/learn/tutorials/vnc-setup

ReSpeaker USB Microphone Array

Flashing new firmware according to https://wiki.seeedstudio.com/ReSpeaker-USB-Mic-Array/

I am flashing the **“1 channel firmware”**:

```
sudo apt-get update
sudo pip install pyusb click

git clone https://github.com/respeaker/usb_4_mic_array.git
cd usb_4_mic_array

# if you want to use 1 channel,then the command should be like:
sudo python dfu.py --download 1_channel_firmware.bin

# Alternative, did not work for me (mic not showing up in GNOME):
# sudo python dfu.py --download 6_channels_firmware.bin  # The 6 channels version
```

Then disconnect ReSpeaker from USB and reconnect. The mircophone occurs in the GNOME audio settings menu.

More ReSpeaker Info from SeeedStudio Wiki

- https://wiki.seeedstudio.com/ReSpeaker_Product_Guide/
- https://wiki.seeedstudio.com/ReSpeaker_Mic_Array_v2.0/

Install Audacity

To test the microphone and to record audios for training the LLM and ASR.

Buggy or weird behavior of Audacity on Linux.

Don't do that: “sudo snap connect audacity:alsa”. In case you did you can “sudo snap disconnect audacity:alsa”.

Rather click on button “Start and ask next time” when Audacity comes up.

Whisper

https://www.jetson-ai-lab.com/tutorial_whisper.html

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