## JETSON SETUP NOTES

Topi December 13, 2020

- 1. Nvidia webpages have good setup guide. Needed to download etcher for image burning.
- 2. For X11 forwarding need to enable in client .ssh/config ForwardX11 yes.
- 3. You can check the jetpack version from file: /etc/nv\_tegra\_release though the following script ought to take are of correct versions.
- $4. \ \ Using \ https://github.com/dusty-nv/jetson-inference/blob/master/docs/aux-docker. \\ md$ 
  - git clone -recursive https://github.com/dusty-nv/jetson-inference
  - cd jetson-inference
  - docker/run.sh
- 5. Opted for building from source cannot get image feed from container...
  - sudo apt update
  - sudo apt-get install git cmake libpython3-dev python3-numpy
  - git clone -recursive https://github.com/dusty-nv/jetson-inference
  - Create jetson-inference/build directory
  - In jetson-inference/build/ run: cmake ../
  - Select to install pytorch!
  - Model downloader can be found from: cd jetson-inference/tools and (./download-models.sh)
  - Then, still in jetson-inference/build, run: make and sudo make install and sudo ldconfig
- 6. Now you just go to: cd jetson-inference/build/aarch64/bin/ and run: ./imagenet.py images/orange\_0.jpg images/test/output\_0.jpg
- 7. Turns out no HQ camera support on jetson...
  - https://developer.ridgerun.com/wiki/index.php?title=Raspberry\_Pi\_HQ\_ camera\_IMX477\_Linux\_driver\_for\_Jetson#Installing\_the\_Driver\_-\_Option\_ A:\_Debian\_Packages\_.28Recommended.29
  - Seem rather impossible to resolve...
- 8. Create virtual env: python3 -m venv venv
- 9. source venv/bin/activate
- 10. Running the imagenet on rpi video: ./imagenet.py rtsp://192.168.1.72:8554/unicast file://test.mp4