

# Jetson Nano cheat sheet

## JetPack and CUDA version

```
# show L4T version
$ cat /etc/nv_tegra_release
# show JetPack package information
$ sudo apt-cache show nvidia-jetpack
# show CUDA version
$ /usr/local/cuda/bin/nvcc --version
# show CUDA version
$ cat /usr/local/cuda/version.txt
```

## Power modus

```
# show current mode
$ sudo nvpmodel -q
# enable DC power supply
$ sudo nvpmodel -m 0
# enable USB power
$ sudo nvpmodel -m 1
```

Don't use `jetson_clocks` for USB power!!!

```
# show current settings
$ sudo jetson_clocks --show
# set static max frequency to CPU, GPU and EMC
$ sudo jetson_clocks
```

## GUI/Headless mode

```
# disable GUI temporary
$ sudo init 3
# disable GUI
$ sudo systemctl set-default multi-user.target
# enable GUI temporary
$ sudo init 5
# enable GUI
$ sudo systemctl set-default graphical.target
```

## PWM Fan

```
# set PWM fan speed to maximal
$ sudo jetson_clocks --fan
# turn fan on
$ sudo sh -c 'echo 255 > /sys/devices/pwm-fan/target_pwm'
# turn fan off
$ sudo sh -c 'echo 0 > /sys/devices/pwm-fan/target_pwm'
```

## Statistics

```
# show Statistics
$ tegrastats
# run tegrastats in the background and store to file
$ tegrastats --interval <int> --logfile <out_file> &
```

## Show RAM

```
# show RAM
$ zramctl
# show SWAP
$ cat /proc/swaps
```

## Sample files

- `/usr/local/cuda/samples`
- `/usr/local/cuda-10.2/samples`
- `/usr/share/visionworks/sources/samples`
- `/usr/share/opencv4/samples`
- `/usr/share/doc/jetson-gpio-common/samples`
- `/usr/share/matplotlib/sample_data`
- `/usr/src/tensorrt/samples`
- `/usr/src/jetson_multimedia_api/samples`