

# AnbernicSexChampions\_Schizonotes

---

## Anbernic

---

### Anbernic RG40XX-H

---

[Anbernic RG40XX-H Product Page \(archive\)](#)

#### specs

cpu: H700 quad-core ARM Cortex-A53, 1.5GHz

gpu: Dual- core G31 MP2

ram: 1GB

storage: dual microsd slots up to 512GB each (one is for boot)

wifi: 2.4/5G WIFI 802.11a/b/g/n/ac

bluetooth: Bluetooth 4.2

speaker: single High-fidelity speaker

battery: Li-po batt3200mAh, ~6 hours

charging: usb-c 5V/1.5A, support C2C charger

screen: 4.0-inch IPS screen, OCA full lamination, resolution: 640\*480

os: 64-bit linux

#### bugs

1. samba not workan?
2. emulators not all displaying on home screen

#### todo

1. x LOCALE/LANG
  1. x localectl(?)
  2. x bashrc
2. find dat damn spare 256gb microsd ffs
  1. 64gb do okie?
    1. manually recreate partition scheme?
    2. but with linuxrrootfs expanded and UDISK expanded to end?
      1. then manually copy da data ig? maybe?
3. fonts
  1. chatgpt get font
    1. comic code :3

2. Clicker book too :3

4. python2/3? pip2/3? pyenv?

5. splash screen anbernic on start

6. splash screen goodbye on stop

7. splash screen exiting anbernic

8. splash screen loading anbernic (throbber)

9. linux part expansion

1. x image bin to it

1. x mayhaps a megafucc? `sudo dd if=/dev/sda of=~/.Downloads/sda-$(date -I)_0.img bs=4M status=progress && cp ~/.Downloads/sda*.img ~/.Downloads/sda-$(date -I)_0.img.bak && sha256sum ~/.Downloads/*.img* | tee -a ~/.Downloads/sda.img.sha256 && du -h ~/.Downloads/*.img* | tee -a ~/.Downloads/sda.img.sha256 && du -b ~/.Downloads/*.img* | tee -a ~/.Downloads/sda.img.sha256 && webhook "done imagin img" true && sudo shutdown -r +3`

2. x copy raw img for backup

1. x sha256sum's to verify

2. x human and bytes sizes logged

3. x local

4. x hdds

2. x image raw img to blank 64gb microsd

1. gparted on laptop

2. expand linux part to idk ~25gb+

3. expand da gayme rom part to fill da rest

4. zero free space / pishrink(?)

5. partition down to used space(?)

6. xz compress / pishrink(?)

7. reflash from xz to verify

8. verify

1. sha256sums

2. xz -t (test)

10. x wifi teathering

1. x net

2. x terminal

11. x get full specs noted

1. x free -h

2. x df -h

3. x lsblk

4. x btop
5. x uname -a /etc
12. x generalssssssss sans cargo/dotnet/etc
13. x SSHD
  1. x fuckin SSH FUCKIN KEYS
  2. x disable root login
  3. x improve password str
14. usb
  1. uart
    1. proxmark/chameleon
  2. x disk
  3. wifi/etc dongle
  4. etc
15. usb hid
  1. badusb/rubber ducky
  2. badusb/net adaptor
16. wifi
  1. test wifite
  2. test mdk4
    1. 5ghz
    2. 2.4ghz
  3. evil twin/badap
    1. hostapd
17. bluetooth fuckin
  1. hcitool
  2. usb dongle
  3. DREAMMAKER
18. size optimization
  1. clamav db on microsd?
  2. `locate` + db on microsd?
  3. if can put packages elsewhere
    1. metasploit framework?
    2. exploitdb
    3. fce+xrdp/vlc?
    4. linux-firmware
19. power saving options
  1. disable unneeded shit

2. passive shit

3. modes?

4. etc

20. pwnagotchi mode?

21. kernel modules

1. modprobe?

22. scapy

## test

1. wifi

1. 2.4ghz

2. 5ghz

1. scapy

2. monitor

1. airmon-ng

1. get iface name `sudo airmon-ng`

2. kill conflicting processes `sudo airmon-ng check kill`

3. monitor `sudo airmon-ng start wlan0`

4. verify `iwconfig`

2. iw

1. get iface name `iw dev`

2. take iface down `sudo ip link set wlan0 down`

3. set to monitor `sudo iw wlan0 set type monitor`

4. bring back up iface `sudo ip link set wlan0 up`

3. wifite

3. protos

1. a/b/g/n/a/ac 2.4ghz and 5ghz

2. bluetooth (builtin)

1. bluetooth 4.2

1. hcitool

2. DREAMAKER

3. bluez(?)

3. usb

1. disk drive (external)

1. whatever ya liek of these

1. fat32

2. exfat

- 3. ntfs
- 4. ext3
- 5. ext4
- 2. uart (external)
  - 1. ft4232h
  - 2. bus pirate 6
  - 3. dat new ch one? idk
- 3. wifi (external)
  - 1. alfa
  - 2. tbd
- 4. bluetooth (external)
  - 1. nrf sniffer
  - 2. dongle(?)
- 4. hashcat
  - 1. md5 mask/brute/dictionary attacks
    - 1. get dat gpu workan
    - 2. get dem optimized kernelz
- 5. python2/3 pip2/3 pyenv?

## running setup docs

### pre-setup

- 1. settings->**lock screen**->never (to keep ssh from timing out)
- 2. settings->**network setttings**->>wifi 3. settings->[enable and set network 2.4ghz]
- 3. settings->**network setttings**->>wifi 3. settings->[enable and set network 5ghz]
- 4. settings->**network setttings**->>wifi 3. settings->[enable and set network phone hotspot]
- 5. settings->network setttings->**bluetooth settings**->[enable and pair headset]
- 6. settings->led settings->breathing light slow
  - 1. brightness: 25
  - 2. colors: green (g:200 r:0 b:0)
- 7. settings->icon settings->style 1->icon 1
- 8. display brightness: 2
- 9. settings->backup (all options)

### rice

- 1. Wallpaper
  - 1. jpg format 640x480 (width px x height px)

2. scp/winscp to `/mnt/vendor/res1/wallpapers/lcd`
3. mv 0.jpg to 10.jpg to 0.jpg.bak to 10.jpg.bak
4. rename jpg to 0.jpg to 10.jpg
5. `sudo chmod 777 /mnt/vendor/res1/wallpapers/lcd/* && sudo chown nobody:nogroup /mnt/vendor/res1/wallpapers/lcd/* && echo -e "\n\nWALLPAPER PERMS UPDATES SUCC\n\n"`
6. `sudo reboot`
7. menu->background settings->set 0-10

## 2. FONT FIGURE

### set root password

```
sudo passwd && echo -e "\n\nROOT PASS UPD00T SUCC\n\n"
```

### get time and date wookan

```
sudo timedatectl set-ntp true && sudo timedatectl timesync-status && echo "Sleeping 3 seconds..." && sleep 3 && date && echo -e "\n\nTIME SUCC\n\n"
```

### add user

```
sudo adduser princesspi && echo -e "\n\nADD PRINCESSPI SUCC\n\n"
```

### add user to groups

```
sudo usermod -aG sudo princesspi && sudo usermod -aG dialout princesspi && sudo usermod -aG tty princesspi && sudo usermod -aG plugdev princesspi && sudo usermod -aG www-data princesspi && echo -e "\n\nPRINCESSPI GROUPS SUCC\n\n"
```

### passwordless sudo

```
sudo visudo && echo -e "\n\nVISUDO SUCC\n\n"
# change %sudo to `sudo ALL = (ALL) NOPASSWD: ALL`
```

### upgrade and install packages

```
sudo apt update && sudo apt install -y avahi-daemon curl wifite nmap ffuf python3-scapy hashcat apache2 php8.1 byobu macchanger build-essential bully hcxdump tool nano python3-pip minicom thefuck ripgrep mdk4 gh btop lynx zip unzip 7zip net-tools clamav xz-utils openssl argon2 cowsay iotop iptraf-ng libimage-exiftool-perl smbclient sscript picocom dos2unix && sudo apt dist-upgrade -y && sudo apt autoremove -y && echo -e "\n\nSUCC\n\n"
```

failed: responder hexcapngtool pyrit

### install ble.sh

```
git clone --recursive --depth 1 --shallow-submodules
https://github.com/akinomyoga/ble.sh.git && make -C ble.sh install PREFIX=~/.local
&& echo 'source -- ~/.local/share/ble.sh' >> ~/.bashrc && source ~/.bashrc &&
echo -e "\n\nBLE.SH SUCC\n\n"
```

## www perms

```
sudo chown -R www-data:princesspi /var/www/html && sudo find /var/www/html -type f
-exec chmod 664 {} \; && sudo find /var/www/html -type d -exec chmod 775 {} \; &&
echo -e "\n\nWEBPERMS SUCC\n\n"
```

## enable avahi daemon and apache2

```
sudo systemctl enable avahi-daemon && sudo systemctl start avahi-daemon && sudo
systemctl enable apache2 && sudo systemctl start apache2 && echo -e "\n\nAVAHI-
DAEMON AND APACHE2 ENABLESTART SUCC\n\n"
```

## copy id

```
# ssh-keygen and ssh-copy-id may? be in winget? or sumtin?
# save key as ~/.ssh/id_ed25519_anbernic
ssh-keygen -t ed25519 -C "Anbernic" && ssh-copy-id -i
~/.ssh/id_ed25519_anbernic.pub princesspi@ANBERNIC.local && echo "`n`n`nmayhaps SSH
KEYZ WORKANS?`n`n`n"
```

## configure sshd

```
dos2unix ~/.ssh/authorized_keys && sudo cp /etc/ssh/sshd_config
/etc/ssh/sshd_config.bak && sudo nano /etc/ssh/sshd_config && sudo systemctl reload
sshd && echo -e "\n\nSSHD MAYBE DONE? WOW\n\n"
```

## /etc/ssh/sshd\_config

```
# paste dis file into /etc/ssh/sshd_config while running above command
# minimized config ig lmao
Include /etc/ssh/sshd_config.d/*.conf
PermitRootLogin prohibit-password
PubkeyAuthentication yes
AuthorizedKeysFile      .ssh/authorized_keys
PubkeyAcceptedAlgorithms +ssh-ed25519
HostKeyAlgorithms +ssh-ed25519
PasswordAuthentication no
KbdInteractiveAuthentication no
ChallengeResponseAuthentication no
UsePAM yes
X11Forwarding yes
```

```
PrintMotd no
AcceptEnv LANG LC_*
Subsystem      sftp      /usr/lib/openssh/sftp-server
```

## general sss scripts

```
script=/tmp/install_script.sh && curl -s
https://raw.githubusercontent.com/PrincessPi3/general-scripts-and-system-
ssssssetup/refs/heads/main/customscripts/install_script.sh > $script && chmod +x
$script && $SHELL -c "$script" && $SHELL
/usr/share/customscripts/configure_webhook.sh && exec $SHELL
```

## sign in to github and configure git

```
# uses classic github auth tokens
nano ~/.gh_token; chmod 400 ~/.gh_token && gh auth login --with-token < ~/.gh_token
&& gh auth setup-git && git config --global user.name "PrincessPi3" && git config -
-global user.email "princesspi@proton.me"
```

## set lang and localez

```
sudo dpkg-reconfigure locales && sudo localectl set-locale en_US.UTF-8
```

## backup ~/.bashrc

```
mv ~/.bashrc ~/.bashrc.bak && nano ~/.bashrc
```

runs nano blank bashrc and copy in text block below to replace ~/.bashrc with new one

```
export LANG=en_US.UTF-8

# If not running interactively, don't do anything
case $- in
    *i*) ;;
    *) return;;
esac

# don't put duplicate lines or lines starting with space in the history.
# See bash(1) for more options
HISTCONTROL=ignoreboth

# append to the history file, don't overwrite it
shopt -s histappend

# for setting history length see HISTSIZE and HISTFILESIZE in bash(1)
HISTSIZE=10000 # dialed both these up by x10
HISTFILESIZE=20000 # up x10
```



```

# check the window size after each command and, if necessary,
# update the values of LINES and COLUMNS.
shopt -s checkwinsize

# If set, the pattern "*" used in a pathname expansion context will
# match all files and zero or more directories and subdirectories.
#shopt -s globstar

# make less more friendly for non-text input files, see lesspipe(1)
[ -x /usr/bin/lesspipe ] && eval "$(SHELL=/bin/sh lesspipe)"

# set variable identifying the chroot you work in (used in the prompt below)
if [ -z "${debian_chroot:-}" ] && [ -r /etc/debian_chroot ]; then
    debian_chroot=$(cat /etc/debian_chroot)
fi

# set a fancy prompt (non-color, unless we know we "want" color)
case "$TERM" in
    xterm-color|*-256color) color_prompt=yes;;
esac

# uncomment for a colored prompt, if the terminal has the capability; turned
# off by default to not distract the user: the focus in a terminal window
# should be on the output of commands, not on the prompt
#force_color_prompt=yes

if [ -n "$force_color_prompt" ]; then
    if [ -x /usr/bin/tput ] && tput setaf 1 >&/dev/null; then
        # We have color support; assume it's compliant with Ecma-48
        # (ISO/IEC-6429). (Lack of such support is extremely rare, and such
        # a case would tend to support setf rather than setaf.)
        color_prompt=yes
    else
        color_prompt=
    fi
fi

if [ "$color_prompt" = yes ]; then
    PS1='${debian_chroot:+($debian_chroot)}\[\033[01;32m\]\u@\h\[\033[00m\]:\
\[\033[01;34m\]\w\[\033[00m\]\$ '
else
    PS1='${debian_chroot:+($debian_chroot)}\u@\h:\w\$ '
fi

```

```

unset color_prompt force_color_prompt

# If this is an xterm set the title to user@host:dir
case "$TERM" in
xterm*|rxvt*)
    PS1="\[\e]0;${debian_chroot:+($debian_chroot)}\u@\h: \w\a\]$PS1"
    ;;
*)
    ;;
esac

# enable color support of ls and also add handy aliases
if [ -x /usr/bin/dircolors ]; then
    test -r ~/.dircolors && eval "$(dircolors -b ~/.dircolors)" || eval
"$$(dircolors -b)"
    alias ls='ls --color=auto'
    #alias dir='dir --color=auto'
    #alias vdir='vdir --color=auto'

    alias grep='grep --color=auto'
    alias fgrep='fgrep --color=auto'
    alias egrep='egrep --color=auto'
fi

# colored GCC warnings and errors
#export
GCC_COLORS='error=01;31:warning=01;35:note=01;36:caret=01;32:locus=01:quote=01'

# some more ls aliases
alias ll='ls -aLF'
alias la='ls -A'
alias l='ls -CF'

# Add an "alert" alias for long running commands. Use like so:
# sleep 10; alert
alias alert='notify-send --urgency=low -i "$([ $? = 0 ] && echo terminal || echo
error)" "$(history|tail -n1|sed -e '\''s/^\s*[0-9]\+\s*//;s/[\;|]\s*alert$//'\''")'

# Alias definitions.
# You may want to put all your additions into a separate file like
# ~/.bash_aliases, instead of adding them here directly.
# See /usr/share/doc/bash-doc/examples in the bash-doc package.

```

```

if [ -f ~/.bash_aliases ]; then
    . ~/.bash_aliases
fi

# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
if ! shopt -oq posix; then
    if [ -f /usr/share/bash-completion/bash_completion ]; then
        . /usr/share/bash-completion/bash_completion
    elif [ -f /etc/bash_completion ]; then
        . /etc/bash_completion
    fi
fi

# Princess Pi Bullshit :3
source -- ~/.local/share/ble.sh
byobu

```

### re-source bashrc

```
source ~/.bashrc
```

### finally, reboot

menu->reboot

```
all donesies :3
```

## mobile

1. via phone over wifi hotspot

1. termux

1. `ssh-keygen -t ed25519 -C "Termux"`

1. save as `~/.ssh/id_ed25519_termux`

2. `ssh-copy-id ~/.ssh/id_ed25519_termux princesspi@ANBERNIC.local`

## Download ROMS/Games

---

Master Link: <https://r-roms.github.io>

## ROMS

- <https://www.romsgames.net>
- <https://vimm.net>
- <https://archive.org>

- <https://edgeemu.net>
- <https://startgame.world>

## 3DS (hshop)

- <https://hshop.erista.me>
- m 0 # md5
- a 3 # brute/mask

hashcat -m 0 -a 3 098f6bcd4621d373cade4e832627b4f6 ?a?a?a?a -O

## Installer

```
sudo apt update && sudo apt upgrade -y && sudo apt avahi-daemon curl wifite nmap
ffuf python3-scapy hashcat apache2 php8.1 byobu macchanger build-essential bully
hcxdump tool nano python3-pip ble.sh minicom thefuck ripgrep mdk4 gh btop lynx zip
unzip 7zip net-tools clamavxdz-utils openssl argon2 cowsay iotop iptraf-ng
libimage-exiftool-
perl smbclient scrypt picocom -y && sudo apt autoremove -y && echo -e "\nfull
succ\n"
```

## Scriptan

auto ssh to root:root

auto scp script

auto run da script

prompt user for linux hostname, linux language/locale, linux username, linux password, github username, github email, github classic auth token

-> den does da fullyon configu auto :3

-> also walks through generating ed25519 keys on client auto :3

-> reboot auto :3

-> all donesies

## USB-C Passthrough

### Confirmed

- **usb-a usb drive formatted fat32 115GB via usb-c usb port/dongle**
  - **lsblk**
- up next: ft4232h
  - i minicom
  - i picocom
  - i [flashrom](#)

- figure out sum methodz ([man](#))

### new method

- `lsusb`
  - detailed: `lsusb -v -d 0403:6011`
  - `dmesg | tail -n 50`
  - `screen /dev/ttyXD 115200`
  - `sudo apt install libftdi1-tools`
    - `ftdi_eeeprom --device i:0x0403:0x6011 --read-eeeprom`
    - `ftdi_eeeprom --version`
  - `flashrom -p ft2232_spi:type=ft4232h,port=A`
  - `ls /sys/bus/usb/devices/*/manufacturer`
    - expected: `FTDI`
- trouble shootin:
- check perms `# sudo usermod -aG dialout $USER`
    - repair: `sudo usermod -aG dialout $USER; sudo usermod -aG tty $USER; sudo usermod -aG plugdev $USER`
  - driverfuckin `sudo modprobe ftdi_sio`

### usb-c passthrough complications

1. `dmesg` is full of endless fuckin errorz
2. `dmesg -w` seems to break io idk fam

### method

- `sleep 30 && ls -q /dev >> somelist.txt`
- `sleep 30 && ls -q /dev >> secondlist.txt`
- `wc -l *.txt` to get da lengs
- `diff somelist.txt secondlist.txt` to diff it

## next ROADMAP

---

1. back up microsd image
2. dump second microsd image
3. back up both, fuck you
4. write protect all files and images
  1. then archive
5. flash dat good img onto spare microsd

6. explore fuckin type of data on each part
7. identify types of partition at each part
8. identify useful offsets and shit fuckit dd af
  1. attempt to edit (move/expand) partitions
  2. flash partition layout to spare microsd
    1. manually copy data and shit fuuuck
      1. partitions txt info notes :3
    2. flash cleaned up part table to microsd
      1. manually just fuckin dd info manually af into place fuckit
9. attempt to boot assorted modified images
  1. boot shit
    1. boot partition?
  2. partition info/type bs
10. once microsd finafuckingly being dope:
11. find out how to shrink/remove empty space/compress/minimize, such that
  1. distributed as standard .img.xz
  2. will auto-expand to arbitrary microsd(? idk if dis is possible)
    1. or at minimum shall take up a nominal size, have empty space zeroed, xz compressed, etc
  3. flashes and boots without fuss usin balena etcher and shit

## hacker shit to add

---

**packages to install:** wpa-supPLICant, hostapd, aircrack suite, openssl, argon2, scrypt, pyenv->latest py global->py disaster dir->venv, steganosuite, samba, ntfs, ftp, sftp, restic (backups), screen

**to get workan:** wifite, hashcat, flashrom, minicom, picocom

**usb devices to get workan:** uart (ft4232h), alfa wireless card (model), nrf bt sniffer dongle? ch? uart, bus pirate 6, <search ya shit for idears>

## dev backup

---

- keep all dem fuckin fiels
- keep ya fookin disk images straight
- dates, labels
- redundant archives
- keep dem fookin physical microsd cards straight af
- watch dat fuckin battery

## ricing remaining

---

- font
  - comic code
  - script-idk one
- splash pages
  - boot
  - shutdown
  - loading
- document color, etc shit properly
- sounds? idk i dont mind them at all
- icons? idk they seem fine

## rice stability

- net autoconnect
  - random ip
- ui lock
  - should never unless manually press a button
- ui not showin all dem dank ass gayme roms

## TOOLING

---

### makin raw img file

*run nosleep.exe or equiv*

- for windows fookan `win32diskimager` be great for fookin makin a fookin image fiel :3
- for linux so is `sudo dd if=/dev/sda1 of=~/.myimage.img status=progress`

### for inspecting an image file

- inspect: `fdisk -l disk.img`
- mount: `sudo mount -t ext4 /home/yjwong/disk.img /mnt -o loop,offset=1999634432`
- mount read only: `sudo mount -t ext4 /home/yjwong/disk.img /mnt -o loop,offset=1999634432,ro`
- inspect: `mimeopen disk.img`
- file look: `file disk.img`

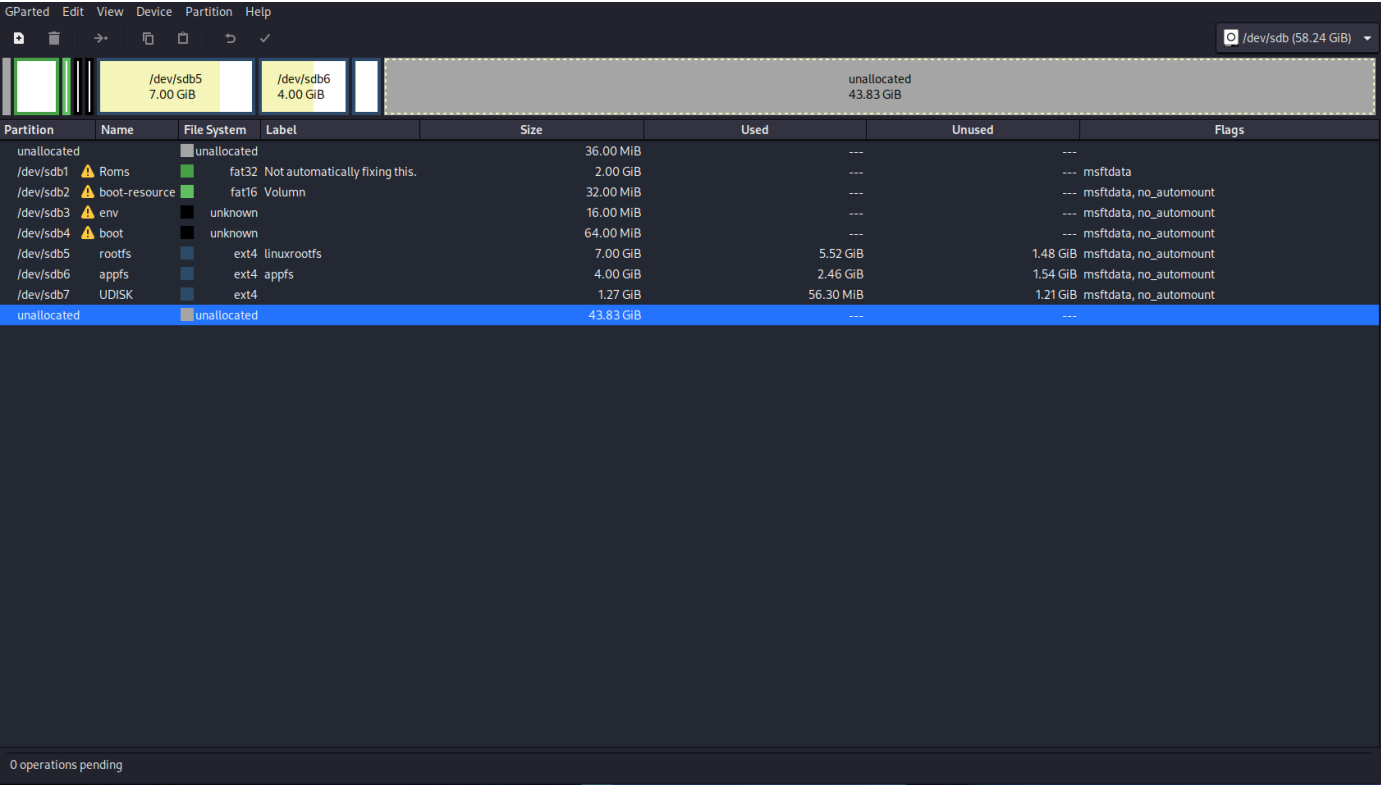
## disk shit and disk shit accessories

---

todo:

- interrogate disk image files see TOOLING // fuck if i know how to fuckin link a header fuuck

the most heinous and hateful of all disk partition schemes (microsd boot disk)



partitions info txt from live system

Disk /dev/ram0: 8 MiB, 8388608 bytes, 16384 sectors  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 4096 bytes  
I/O size (minimum/optimal): 4096 bytes / 4096 bytes

Disk /dev/ram1: 8 MiB, 8388608 bytes, 16384 sectors  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 4096 bytes  
I/O size (minimum/optimal): 4096 bytes / 4096 bytes

Disk /dev/ram2: 8 MiB, 8388608 bytes, 16384 sectors  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 4096 bytes  
I/O size (minimum/optimal): 4096 bytes / 4096 bytes

Disk /dev/ram3: 8 MiB, 8388608 bytes, 16384 sectors  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 4096 bytes  
I/O size (minimum/optimal): 4096 bytes / 4096 bytes



Disk /dev/ram4: 8 MiB, 8388608 bytes, 16384 sectors  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 4096 bytes  
I/O size (minimum/optimal): 4096 bytes / 4096 bytes

Disk /dev/ram5: 8 MiB, 8388608 bytes, 16384 sectors  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 4096 bytes  
I/O size (minimum/optimal): 4096 bytes / 4096 bytes

Disk /dev/ram6: 8 MiB, 8388608 bytes, 16384 sectors  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 4096 bytes  
I/O size (minimum/optimal): 4096 bytes / 4096 bytes

Disk /dev/ram7: 8 MiB, 8388608 bytes, 16384 sectors  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 4096 bytes  
I/O size (minimum/optimal): 4096 bytes / 4096 bytes

Disk /dev/ram8: 8 MiB, 8388608 bytes, 16384 sectors  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 4096 bytes  
I/O size (minimum/optimal): 4096 bytes / 4096 bytes

Disk /dev/ram9: 8 MiB, 8388608 bytes, 16384 sectors  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 4096 bytes  
I/O size (minimum/optimal): 4096 bytes / 4096 bytes

Disk /dev/ram10: 8 MiB, 8388608 bytes, 16384 sectors  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 4096 bytes  
I/O size (minimum/optimal): 4096 bytes / 4096 bytes

Disk /dev/ram11: 8 MiB, 8388608 bytes, 16384 sectors  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 4096 bytes  
I/O size (minimum/optimal): 4096 bytes / 4096 bytes

Disk /dev/ram12: 8 MiB, 8388608 bytes, 16384 sectors  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 4096 bytes  
I/O size (minimum/optimal): 4096 bytes / 4096 bytes

Disk /dev/ram13: 8 MiB, 8388608 bytes, 16384 sectors  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 4096 bytes  
I/O size (minimum/optimal): 4096 bytes / 4096 bytes

Disk /dev/ram14: 8 MiB, 8388608 bytes, 16384 sectors  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 4096 bytes  
I/O size (minimum/optimal): 4096 bytes / 4096 bytes

Disk /dev/ram15: 8 MiB, 8388608 bytes, 16384 sectors  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 4096 bytes  
I/O size (minimum/optimal): 4096 bytes / 4096 bytes

Disk /dev/mmcblk0: 58.24 GiB, 62534975488 bytes, 122138624 sectors  
Units: sectors of 1 \* 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disklabel type: gpt  
Disk identifier: AB6F3888-569A-4926-9668-80941DCB40BC

| Device         | Start   | End     | Sectors | Size | Type                 |
|----------------|---------|---------|---------|------|----------------------|
| /dev/mmcblk0p1 | 73728   | 4268031 | 4194304 | 2G   | Microsoft basic data |
| /dev/mmcblk0p2 | 4268032 | 4333567 | 65536   | 32M  | Microsoft basic data |
| /dev/mmcblk0p3 | 4333568 | 4366335 | 32768   | 16M  | Microsoft basic data |
| /dev/mmcblk0p4 | 4366336 | 4497407 | 131072  | 64M  | Microsoft basic data |

```
/dev/mmcblk0p5 4497408 19177471 14680064 7G Microsoft basic data
/dev/mmcblk0p6 19177472 27566079 8388608 4G Microsoft basic data
/dev/mmcblk0p7 27566080 30226431 2660352 1.3G Microsoft basic data
```

Disk /dev/mmcblk1: 29.12 GiB, 31267487744 bytes, 61069312 sectors

Units: sectors of 1 \* 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: 0xcf25bf97

| Device         | Boot | Start    | End      | Sectors | Size | Id  | Type        |
|----------------|------|----------|----------|---------|------|-----|-------------|
| /dev/mmcblk1p1 | 8192 | 61069311 | 61061120 | 29.1G   | c    | W95 | FAT32 (LBA) |

| NAME | MAJ:MIN | RM | SIZE | RO | TYPE | MOUNTPOINTS |
|------|---------|----|------|----|------|-------------|
|------|---------|----|------|----|------|-------------|

|            |        |   |       |   |      |             |
|------------|--------|---|-------|---|------|-------------|
| mmcblk0    | 179:0  | 0 | 58.2G | 0 | disk |             |
| └mmcblk0p1 | 179:1  | 0 | 2G    | 0 | part | /mnt/mmc    |
| └mmcblk0p2 | 179:2  | 0 | 32M   | 0 | part |             |
| └mmcblk0p3 | 179:3  | 0 | 16M   | 0 | part |             |
| └mmcblk0p4 | 179:4  | 0 | 64M   | 0 | part |             |
| └mmcblk0p5 | 179:5  | 0 | 7G    | 0 | part | /           |
| └mmcblk0p6 | 179:6  | 0 | 4G    | 0 | part | /mnt/vendor |
| └mmcblk0p7 | 179:7  | 0 | 1.3G  | 0 | part | /mnt/data   |
| mmcblk1    | 179:16 | 0 | 29.1G | 0 | disk |             |
| └mmcblk1p1 | 179:17 | 0 | 29.1G | 0 | part | /mnt/sdcard |

ashmem

autofs

binder

block

bus

cec

cedar\_dev

char

console

cpu\_dma\_latency

cuse

deeplayer

deinterlace

disk

disp

fb0

fd

full

fuse  
gpiochip0  
gpiochip1  
hdmi  
hwbinder  
i2c-3  
i2c-5  
initctl  
input  
ion  
kmem  
kmsg  
log  
loop0  
loop1  
loop2  
loop3  
loop4  
loop5  
loop6  
loop7  
loop-control  
mali0  
mapper  
media0  
mem  
memory\_bandwidth  
mmcblk0  
mmcblk0p1  
mmcblk0p2  
mmcblk0p3  
mmcblk0p4  
mmcblk0p5  
mmcblk0p6  
mmcblk0p7  
mmcblk1  
mmcblk1p1  
net  
network\_latency  
network\_throughput  
null  
ppp  
ptmx

pts  
ram0  
ram1  
ram10  
ram11  
ram12  
ram13  
ram14  
ram15  
ram2  
ram3  
ram4  
ram5  
ram6  
ram7  
ram8  
ram9  
random  
rfkill  
rtc  
rtc0  
rtc1  
shm  
snd  
sst\_storage  
stderr  
stdin  
stdout  
sunxi-reg  
sunxi\_soc\_info  
sunxi-wlan  
tty  
tty0  
tty1  
tty10  
tty11  
tty12  
tty13  
tty14  
tty15  
tty16  
tty17  
tty18

tty19  
tty2  
tty20  
tty21  
tty22  
tty23  
tty24  
tty25  
tty26  
tty27  
tty28  
tty29  
tty3  
tty30  
tty31  
tty32  
tty33  
tty34  
tty35  
tty36  
tty37  
tty38  
tty39  
tty4  
tty40  
tty41  
tty42  
tty43  
tty44  
tty45  
tty46  
tty47  
tty48  
tty49  
tty5  
tty50  
tty51  
tty52  
tty53  
tty54  
tty55  
tty56  
tty57

tty58  
tty59  
tty6  
tty60  
tty61  
tty62  
tty63  
tty7  
tty8  
tty9  
ttyS0  
ttyS1  
ttyS5  
uhid  
uinput  
urandom  
v4l-subdev0  
v4l-subdev1  
v4l-subdev10  
v4l-subdev11  
v4l-subdev12  
v4l-subdev2  
v4l-subdev3  
v4l-subdev4  
v4l-subdev5  
v4l-subdev6  
v4l-subdev7  
v4l-subdev8  
v4l-subdev9  
vcs  
vcs1  
vcs2  
vcs3  
vcs4  
vcs5  
vcs6  
vcsa  
vcsa1  
vcsa2  
vcsa3  
vcsa4  
vcsa5  
vcsa6

vndbinder

zero

/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux/updates\_available: ASCII text, with no line terminators

/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux/disk: ASCII text, with no line terminators

/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux/memory: ASCII text, with no line terminators

/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux/cpu\_freq: ASCII text, with no line terminators

/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux/cpu\_count: ASCII text, with no line terminators

/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux/load\_average: ASCII text, with no line terminators

/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux/session: ASCII text, with no line terminators

/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux/uptime: ASCII text, with no line terminators

/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux/release: ASCII text, with no line terminators

/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux/logo: ASCII text, with no line terminators

/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/cpu\_freq: ASCII text, with no line terminators

/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/load\_average: ASCII text, with no line terminators

/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/cpu\_count: ASCII text, with no line terminators

/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/disk: ASCII text, with very long lines (316), with no line terminators

/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/memory: ASCII text, with very long lines (308), with no line terminators

/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/uptime: ASCII text, with no line terminators

/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/updates\_available.new: empty

/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/session: very short file (no magic)

/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/release: ASCII text, with no line terminators

/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/logo: ASCII text, with no line terminators

/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/time.new: empty

/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/date.new: empty

/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/reboot\_required.new: empty



```
/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/raid.new: empty
/dev/shm/byobu-princesspi-5a7ZHlTX/sockets: ASCII text
/dev/shm/byobu-princesspi-5a7ZHlTX/printscreen: empty
/dev/shm/byobu-princesspi-5a7ZHlTX/cache.tmux/updates-available.lock: empty
/dev/shm/byobu-princesspi-5a7ZHlTX/cache.tmux/updates-available: ASCII text
/dev: directory
/dev/mali0: character special (10/49)
/dev/rtc: symbolic link to rtc0
/dev/vcsa5: character special (7/133)
/dev/vcs5: character special (7/5)
/dev/vcsa4: character special (7/132)
/dev/vcs4: character special (7/4)
/dev/vcsa3: character special (7/131)
/dev/vcs3: character special (7/3)
/dev/vcsa2: character special (7/130)
/dev/vcs2: character special (7/2)
/dev/vcsa6: character special (7/134)
/dev/vcs6: character special (7/6)
/dev/block: directory
/dev/block/1:9: symbolic link to ../ram9
/dev/block/1:8: symbolic link to ../ram8
/dev/block/179:7: symbolic link to ../mmcblk0p7
/dev/block/1:7: symbolic link to ../ram7
/dev/block/1:4: symbolic link to ../ram4
/dev/block/1:2: symbolic link to ../ram2
/dev/block/1:11: symbolic link to ../ram11
/dev/block/1:5: symbolic link to ../ram5
/dev/block/1:15: symbolic link to ../ram15
/dev/block/1:6: symbolic link to ../ram6
/dev/block/1:14: symbolic link to ../ram14
/dev/block/1:3: symbolic link to ../ram3
/dev/block/1:10: symbolic link to ../ram10
/dev/block/7:48: symbolic link to ../loop6
/dev/block/7:56: symbolic link to ../loop7
/dev/block/7:40: symbolic link to ../loop5
/dev/block/1:1: symbolic link to ../ram1
/dev/block/1:12: symbolic link to ../ram12
/dev/block/1:13: symbolic link to ../ram13
/dev/block/7:32: symbolic link to ../loop4
/dev/block/1:0: symbolic link to ../ram0
/dev/block/7:24: symbolic link to ../loop3
/dev/block/7:0: symbolic link to ../loop0
/dev/block/7:16: symbolic link to ../loop2
```

```
/dev/block/7:8: symbolic link to ../loop1
/dev/block/179:5: symbolic link to ../mmcblk0p5
/dev/block/179:6: symbolic link to ../mmcblk0p6
/dev/block/179:17: symbolic link to ../mmcblk1p1
/dev/block/179:4: symbolic link to ../mmcblk0p4
/dev/block/179:3: symbolic link to ../mmcblk0p3
/dev/block/179:1: symbolic link to ../mmcblk0p1
/dev/block/179:2: symbolic link to ../mmcblk0p2
/dev/block/179:16: symbolic link to ../mmcblk1
/dev/block/179:0: symbolic link to ../mmcblk0
/dev/disk: directory
/dev/disk/by-uuid: directory
/dev/disk/by-uuid/f3ea45ae-2987-4475-b660-6a16dfd4302f: symbolic link to
../../mmcblk0p7
/dev/disk/by-uuid/8a55d1a3-1dcc-4aeb-ab5f-aefd9bdf81ec: symbolic link to
../../mmcblk0p5
/dev/disk/by-uuid/8b8c308b-ce9f-49fe-ae18-5b4676be10d3: symbolic link to
../../mmcblk0p6
/dev/disk/by-uuid/24E6-BCAB: symbolic link to ../../mmcblk1p1
/dev/disk/by-uuid/232E-6735: symbolic link to ../../mmcblk0p1
/dev/disk/by-partuuid: directory
/dev/disk/by-partuuid/a0085546-4166-744a-a353-fca9272b8e4b: symbolic link to
../../mmcblk0p7
/dev/disk/by-partuuid/a0085546-4166-744a-a353-fca9272b8e49: symbolic link to
../../mmcblk0p5
/dev/disk/by-partuuid/a0085546-4166-744a-a353-fca9272b8e4a: symbolic link to
../../mmcblk0p6
/dev/disk/by-partuuid/cf25bf97-01: symbolic link to ../../mmcblk1p1
/dev/disk/by-partuuid/a0085546-4166-744a-a353-fca9272b8e48: symbolic link to
../../mmcblk0p4
/dev/disk/by-partuuid/a0085546-4166-744a-a353-fca9272b8e47: symbolic link to
../../mmcblk0p3
/dev/disk/by-partuuid/a0085546-4166-744a-a353-fca9272b8e45: symbolic link to
../../mmcblk0p1
/dev/disk/by-partuuid/a0085546-4166-744a-a353-fca9272b8e46: symbolic link to
../../mmcblk0p2
/dev/disk/by-partlabel: directory
/dev/disk/by-partlabel/UDISK: symbolic link to ../../mmcblk0p7
/dev/disk/by-partlabel/rootfs: symbolic link to ../../mmcblk0p5
/dev/disk/by-partlabel/appfs: symbolic link to ../../mmcblk0p6
/dev/disk/by-partlabel/boot: symbolic link to ../../mmcblk0p4
/dev/disk/by-partlabel/env: symbolic link to ../../mmcblk0p3
/dev/disk/by-partlabel/Roms: symbolic link to ../../mmcblk0p1
```

```
/dev/disk/by-partlabel/boot-resource: symbolic link to ../../mmcblk0p2
/dev/disk/by-label: directory
/dev/disk/by-label/linuxrootfs: symbolic link to ../../mmcblk0p5
/dev/disk/by-label/appfs: symbolic link to ../../mmcblk0p6
/dev/disk/by-label/Volumn: symbolic link to ../../mmcblk0p2
/dev/disk/by-path: directory
/dev/disk/by-path/platform-sdc0-part7: symbolic link to ../../mmcblk0p7
/dev/disk/by-path/platform-sdc0-part5: symbolic link to ../../mmcblk0p5
/dev/disk/by-path/platform-sdc0-part6: symbolic link to ../../mmcblk0p6
/dev/disk/by-path/platform-sdc2-part1: symbolic link to ../../mmcblk1p1
/dev/disk/by-path/platform-sdc0-part4: symbolic link to ../../mmcblk0p4
/dev/disk/by-path/platform-sdc0-part3: symbolic link to ../../mmcblk0p3
/dev/disk/by-path/platform-sdc0-part1: symbolic link to ../../mmcblk0p1
/dev/disk/by-path/platform-sdc0-part2: symbolic link to ../../mmcblk0p2
/dev/disk/by-path/platform-sdc2: symbolic link to ../../mmcblk1
/dev/disk/by-path/platform-sdc0: symbolic link to ../../mmcblk0
/dev/disk/by-id: directory
/dev/disk/by-id/mmc-USD_0x0000b700-part7: symbolic link to ../../mmcblk0p7
/dev/disk/by-id/mmc-USD_0x0000b700-part5: symbolic link to ../../mmcblk0p5
/dev/disk/by-id/mmc-USD_0x0000b700-part6: symbolic link to ../../mmcblk0p6
/dev/disk/by-id/mmc-032GB_0x000006e9-part1: symbolic link to ../../mmcblk1p1
/dev/disk/by-id/mmc-USD_0x0000b700-part4: symbolic link to ../../mmcblk0p4
/dev/disk/by-id/mmc-USD_0x0000b700-part3: symbolic link to ../../mmcblk0p3
/dev/disk/by-id/mmc-USD_0x0000b700-part1: symbolic link to ../../mmcblk0p1
/dev/disk/by-id/mmc-USD_0x0000b700-part2: symbolic link to ../../mmcblk0p2
/dev/disk/by-id/mmc-032GB_0x000006e9: symbolic link to ../../mmcblk1
/dev/disk/by-id/mmc-USD_0x0000b700: symbolic link to ../../mmcblk0
/dev/char: directory
/dev/char/10:49: symbolic link to ../mali0
/dev/char/7:133: symbolic link to ../vcsa5
/dev/char/7:5: symbolic link to ../vcs5
/dev/char/7:2: symbolic link to ../vcs2
/dev/char/7:134: symbolic link to ../vcsa6
/dev/char/7:132: symbolic link to ../vcsa4
/dev/char/7:128: symbolic link to ../vcsa
/dev/char/7:131: symbolic link to ../vcsa3
/dev/char/7:130: symbolic link to ../vcsa2
/dev/char/7:3: symbolic link to ../vcs3
/dev/char/7:4: symbolic link to ../vcs4
/dev/char/7:6: symbolic link to ../vcs6
/dev/char/4:9: symbolic link to ../tty9
/dev/char/4:51: symbolic link to ../tty51
/dev/char/7:1: symbolic link to ../vcs1
```

/dev/char/7:129: symbolic link to ../vcsa1  
/dev/char/4:59: symbolic link to ../tty59  
/dev/char/7:0: symbolic link to ../vcs  
/dev/char/4:63: symbolic link to ../tty63  
/dev/char/4:7: symbolic link to ../tty7  
/dev/char/4:8: symbolic link to ../tty8  
/dev/char/4:62: symbolic link to ../tty62  
/dev/char/4:61: symbolic link to ../tty61  
/dev/char/4:60: symbolic link to ../tty60  
/dev/char/4:56: symbolic link to ../tty56  
/dev/char/4:6: symbolic link to ../tty6  
/dev/char/4:57: symbolic link to ../tty57  
/dev/char/4:54: symbolic link to ../tty54  
/dev/char/4:55: symbolic link to ../tty55  
/dev/char/4:5: symbolic link to ../tty5  
/dev/char/4:47: symbolic link to ../tty47  
/dev/char/4:58: symbolic link to ../tty58  
/dev/char/4:53: symbolic link to ../tty53  
/dev/char/4:50: symbolic link to ../tty50  
/dev/char/4:48: symbolic link to ../tty48  
/dev/char/4:49: symbolic link to ../tty49  
/dev/char/4:45: symbolic link to ../tty45  
/dev/char/4:52: symbolic link to ../tty52  
/dev/char/4:40: symbolic link to ../tty40  
/dev/char/4:44: symbolic link to ../tty44  
/dev/char/4:41: symbolic link to ../tty41  
/dev/char/4:46: symbolic link to ../tty46  
/dev/char/4:35: symbolic link to ../tty35  
/dev/char/4:42: symbolic link to ../tty42  
/dev/char/4:43: symbolic link to ../tty43  
/dev/char/4:36: symbolic link to ../tty36  
/dev/char/4:38: symbolic link to ../tty38  
/dev/char/4:39: symbolic link to ../tty39  
/dev/char/4:31: symbolic link to ../tty31  
/dev/char/4:4: symbolic link to ../tty4  
/dev/char/4:34: symbolic link to ../tty34  
/dev/char/4:37: symbolic link to ../tty37  
/dev/char/4:26: symbolic link to ../tty26  
/dev/char/4:33: symbolic link to ../tty33  
/dev/char/4:27: symbolic link to ../tty27  
/dev/char/4:28: symbolic link to ../tty28  
/dev/char/4:32: symbolic link to ../tty32  
/dev/char/4:30: symbolic link to ../tty30

```
/dev/char/4:3: symbolic link to ../tty3
/dev/char/4:24: symbolic link to ../tty24
/dev/char/4:29: symbolic link to ../tty29
/dev/char/4:23: symbolic link to ../tty23
/dev/char/4:2: symbolic link to ../tty2
/dev/char/4:25: symbolic link to ../tty25
/dev/char/4:22: symbolic link to ../tty22
/dev/char/4:21: symbolic link to ../tty21
/dev/char/4:20: symbolic link to ../tty20
/dev/char/4:15: symbolic link to ../tty15
/dev/char/4:19: symbolic link to ../tty19
/dev/char/4:18: symbolic link to ../tty18
/dev/char/4:16: symbolic link to ../tty16
/dev/char/4:17: symbolic link to ../tty17
/dev/char/4:14: symbolic link to ../tty14
/dev/char/4:12: symbolic link to ../tty12
/dev/char/4:13: symbolic link to ../tty13
/dev/char/4:11: symbolic link to ../tty11
/dev/char/4:10: symbolic link to ../tty10
/dev/char/4:1: symbolic link to ../tty1
/dev/char/4:0: symbolic link to ../tty0
/dev/char/5:0: symbolic link to ../tty
/dev/char/5:2: symbolic link to ../ptmx
/dev/char/5:1: symbolic link to ../console
/dev/char/116:33: symbolic link to ../snd/timer
/dev/char/116:1: symbolic link to ../snd/seq
/dev/char/108:0: symbolic link to ../ppp
/dev/char/10:54: symbolic link to ../vndbinder
/dev/char/10:239: symbolic link to ../uhid
/dev/char/10:223: symbolic link to ../uinput
/dev/char/10:60: symbolic link to ../sunxi-reg
/dev/char/10:200: symbolic link to ../net/tun
/dev/char/10:61: symbolic link to ../sunxi_soc_info
/dev/char/10:58: symbolic link to ../sunxi-wlan
/dev/char/10:50: symbolic link to ../memory_bandwidth
/dev/char/10:62: symbolic link to ../rfkill
/dev/char/10:63: symbolic link to ../ion
/dev/char/10:51: symbolic link to ../network_throughput
/dev/char/10:59: symbolic link to ../sst_storage
/dev/char/10:55: symbolic link to ../hwbinder
/dev/char/10:236: symbolic link to ../mapper/control
/dev/char/10:235: symbolic link to ../autofs
/dev/char/10:52: symbolic link to ../network_latency
```

```
/dev/char/10:53: symbolic link to ../cpu_dma_latency
/dev/char/10:237: symbolic link to ../loop-control
/dev/char/10:203: symbolic link to ../cuse
/dev/char/10:229: symbolic link to ../fuse
/dev/char/10:56: symbolic link to ../binder
/dev/char/1:7: symbolic link to ../full
/dev/char/1:9: symbolic link to ../urandom
/dev/char/1:5: symbolic link to ../zero
/dev/char/1:3: symbolic link to ../null
/dev/char/10:57: symbolic link to ../ashmem
/dev/char/1:8: symbolic link to ../random
/dev/char/247:0: symbolic link to ../deinterlace
/dev/char/1:11: symbolic link to ../kmsg
/dev/char/242:0: symbolic link to ../deeplayer
/dev/char/243:0: symbolic link to ../cec
/dev/char/1:1: symbolic link to ../mem
/dev/char/244:0: symbolic link to ../hdmi
/dev/char/1:2: symbolic link to ../kmem
/dev/char/150:0: symbolic link to ../cedar_dev
/dev/char/250:0: symbolic link to ../disp
/dev/char/13:64: symbolic link to ../input/event0
/dev/char/248:5: symbolic link to ../ttyS5
/dev/char/253:0: symbolic link to ../rtc0
/dev/char/248:1: symbolic link to ../ttyS1
/dev/char/89:5: symbolic link to ../i2c-5
/dev/char/13:65: symbolic link to ../input/event1
/dev/char/89:3: symbolic link to ../i2c-3
/dev/char/248:0: symbolic link to ../ttyS0
/dev/char/13:0: symbolic link to ../input/js0
/dev/char/116:0: symbolic link to ../snd/controlC0
/dev/char/116:16: symbolic link to ../snd/pcmC0D0p
/dev/char/116:32: symbolic link to ../snd/controlC1
/dev/char/189:128: symbolic link to ../bus/usb/002/001
/dev/char/189:256: symbolic link to ../bus/usb/003/001
/dev/char/189:0: symbolic link to ../bus/usb/001/001
/dev/char/189:512: symbolic link to ../bus/usb/005/001
/dev/char/189:640: symbolic link to ../bus/usb/006/001
/dev/char/189:384: symbolic link to ../bus/usb/004/001
/dev/char/116:64: symbolic link to ../snd/controlC2
/dev/char/13:66: symbolic link to ../input/event2
/dev/char/116:80: symbolic link to ../snd/pcmC2D0p
/dev/char/253:1: symbolic link to ../rtc1
/dev/char/254:0: symbolic link to ../gpiochip0
```

```
/dev/char/254:1: symbolic link to ../gpiochip1
/dev/char/81:9: symbolic link to ../v4l-subdev9
/dev/char/81:8: symbolic link to ../v4l-subdev8
/dev/char/81:6: symbolic link to ../v4l-subdev6
/dev/char/81:7: symbolic link to ../v4l-subdev7
/dev/char/81:5: symbolic link to ../v4l-subdev5
/dev/char/81:3: symbolic link to ../v4l-subdev3
/dev/char/81:4: symbolic link to ../v4l-subdev4
/dev/char/81:12: symbolic link to ../v4l-subdev12
/dev/char/81:11: symbolic link to ../v4l-subdev11
/dev/char/81:2: symbolic link to ../v4l-subdev2
/dev/char/81:0: symbolic link to ../v4l-subdev0
/dev/char/81:10: symbolic link to ../v4l-subdev10
/dev/char/81:1: symbolic link to ../v4l-subdev1
/dev/char/252:0: symbolic link to ../media0
/dev/char/29:0: symbolic link to ../fb0
/dev/log: symbolic link to /run/systemd/journal/dev-log
/dev/initctl: symbolic link to /run/initctl
/dev/stderr: symbolic link to /proc/self/fd/2
/dev/stdout: symbolic link to /proc/self/fd/1
/dev/stdin: symbolic link to /proc/self/fd/0
/dev/fd: symbolic link to /proc/self/fd
/dev/pts: directory
/dev/pts/2: character special (136/2)
/dev/pts/1: character special (136/1)
/dev/pts/0: character special (136/0)
/dev/pts/ptmx: character special (5/2)
/dev/shm: sticky, directory
/dev/shm/byobu-princesspi-5a7ZHlTX: directory
/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux: directory
/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux/updates_available: ASCII text, with
no line terminators
/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux/disk: ASCII text, with no line
terminators
/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux/memory: ASCII text, with no line
terminators
/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux/cpu_freq: ASCII text, with no line
terminators
/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux/cpu_count: ASCII text, with no line
terminators
/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux/load_average: ASCII text, with no
line terminators
/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux/session: ASCII text, with no line
```



terminators  
/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux/uptime: ASCII text, with no line terminators  
terminators  
/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux/release: ASCII text, with no line terminators  
terminators  
/dev/shm/byobu-princesspi-5a7ZHlTX/.last.tmux/logo: ASCII text, with no line terminators  
terminators  
/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux: directory  
/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/cpu\_freq: ASCII text, with no line terminators  
terminators  
/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/load\_average: ASCII text, with no line terminators  
terminators  
/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/cpu\_count: ASCII text, with no line terminators  
terminators  
/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/disk: ASCII text, with very long lines (316), with no line terminators  
/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/memory: ASCII text, with very long lines (308), with no line terminators  
/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/uptime: ASCII text, with no line terminators  
terminators  
/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/updates\_available.new: empty  
/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/session: very short file (no magic)  
/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/release: ASCII text, with no line terminators  
terminators  
/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/logo: ASCII text, with no line terminators  
terminators  
/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/time.new: empty  
/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/date.new: empty  
/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/reboot\_required.new: empty  
/dev/shm/byobu-princesspi-5a7ZHlTX/status.tmux/raid.new: empty  
/dev/shm/byobu-princesspi-5a7ZHlTX/sockets: ASCII text  
/dev/shm/byobu-princesspi-5a7ZHlTX/pscreen: empty  
/dev/shm/byobu-princesspi-5a7ZHlTX/cache.tmux: directory  
/dev/shm/byobu-princesspi-5a7ZHlTX/cache.tmux/updates-available.lock: empty  
/dev/shm/byobu-princesspi-5a7ZHlTX/cache.tmux/updates-available: ASCII text  
/dev/deeplayer: character special (242/0)  
/dev/cec: character special (243/0)  
/dev/hdmi: character special (244/0)  
/dev/memory\_bandwidth: character special (10/50)  
/dev/network\_throughput: character special (10/51)  
/dev/network\_latency: character special (10/52)  
/dev/cpu\_dma\_latency: character special (10/53)  
/dev/mmcblk1p1: block special (179/17)



```
/dev/mmcblk1: block special (179/16)
/dev/snd: directory
/dev/snd/by-path: directory
/dev/snd/by-path/platform-soc@03000000:codec_mach: symbolic link to ../controlC0
/dev/snd/by-path/platform-soc@03000000:ahub_dam_mach: symbolic link to ../controlC1
/dev/snd/by-path/platform-soc@03000000:ahub1_mach: symbolic link to ../controlC2
/dev/snd/pcmC2D0p: character special (116/80)
/dev/snd/controlC2: character special (116/64)
/dev/snd/controlC1: character special (116/32)
/dev/snd/pcmC0D0p: character special (116/16)
/dev/snd/controlC0: character special (116/0)
/dev/snd/seq: character special (116/1)
/dev/snd/timer: character special (116/33)
/dev/vndbinder: character special (10/54)
/dev/hwbinder: character special (10/55)
/dev/binder: character special (10/56)
/dev/ashmem: character special (10/57)
/dev/uhid: character special (10/239)
/dev/mmcblk0p7: block special (179/7)
/dev/mmcblk0p6: block special (179/6)
/dev/mmcblk0p5: block special (179/5)
/dev/mmcblk0p4: block special (179/4)
/dev/mmcblk0p3: block special (179/3)
/dev/mmcblk0p2: block special (179/2)
/dev/mmcblk0p1: block special (179/1)
/dev/mmcblk0: block special (179/0)
/dev/mapper: directory
/dev/mapper/control: character special (10/236)
/dev/cedar_dev: character special (150/0)
/dev/i2c-5: character special (89/5)
/dev/i2c-3: character special (89/3)
/dev/rtc1: character special (253/1)
/dev/rtc0: character special (253/0)
/dev/uinput: character special (10/223)
/dev/input: directory
/dev/input/by-path: directory
/dev/input/by-path/platform-twi5-platform-axp2101-pek.0-event: symbolic link to ../event0
/dev/input/by-path/platform-soc@03000000:gpio_keys-event-joystick: symbolic link to ../event1
/dev/input/by-path/platform-soc@03000000:gpio_keys-joystick: symbolic link to ../js0
/dev/input/by-path/platform-dierct-keys-polled-event: symbolic link to ../event2
```

/dev/input/event2: character special (13/66)  
/dev/input/event1: character special (13/65)  
/dev/input/js0: character special (13/0)  
/dev/input/event0: character special (13/64)  
/dev/bus: directory  
/dev/bus/usb: directory  
/dev/bus/usb/006: directory  
/dev/bus/usb/006/001: character special (189/640)  
/dev/bus/usb/005: directory  
/dev/bus/usb/005/001: character special (189/512)  
/dev/bus/usb/004: directory  
/dev/bus/usb/004/001: character special (189/384)  
/dev/bus/usb/003: directory  
/dev/bus/usb/003/001: character special (189/256)  
/dev/bus/usb/002: directory  
/dev/bus/usb/002/001: character special (189/128)  
/dev/bus/usb/001: directory  
/dev/bus/usb/001/001: character special (189/0)  
/dev/ppp: character special (108/0)  
/dev/net: directory  
/dev/net/tun: character special (10/200)  
/dev/sunxi-wlan: character special (10/58)  
/dev/sst\_storage: character special (10/59)  
/dev/loop7: block special (7/56)  
/dev/loop6: block special (7/48)  
/dev/loop5: block special (7/40)  
/dev/loop4: block special (7/32)  
/dev/loop3: block special (7/24)  
/dev/loop2: block special (7/16)  
/dev/loop1: block special (7/8)  
/dev/loop0: block special (7/0)  
/dev/loop-control: character special (10/237)  
/dev/ram15: block special (1/15)  
/dev/ram14: block special (1/14)  
/dev/ram13: block special (1/13)  
/dev/ram12: block special (1/12)  
/dev/ram11: block special (1/11)  
/dev/ram10: block special (1/10)  
/dev/ram9: block special (1/9)  
/dev/ram8: block special (1/8)  
/dev/ram7: block special (1/7)  
/dev/ram6: block special (1/6)  
/dev/ram5: block special (1/5)

/dev/ram4: block special (1/4)  
/dev/ram3: block special (1/3)  
/dev/ram2: block special (1/2)  
/dev/ram1: block special (1/1)  
/dev/ram0: block special (1/0)  
/dev/deinterlace: character special (247/0)  
/dev/sunxi-reg: character special (10/60)  
/dev/sunxi\_soc\_info: character special (10/61)  
/dev/ttyS5: character special (248/5)  
/dev/ttyS1: character special (248/1)  
/dev/ttyS0: character special (248/0)  
/dev/ptmx: character special (5/2)  
/dev/cuse: character special (10/203)  
/dev/fuse: character special (10/229)  
/dev/autofs: character special (10/235)  
/dev/tty63: character special (4/63)  
/dev/tty62: character special (4/62)  
/dev/tty61: character special (4/61)  
/dev/tty60: character special (4/60)  
/dev/tty59: character special (4/59)  
/dev/tty58: character special (4/58)  
/dev/tty57: character special (4/57)  
/dev/tty56: character special (4/56)  
/dev/tty55: character special (4/55)  
/dev/tty54: character special (4/54)  
/dev/tty53: character special (4/53)  
/dev/tty52: character special (4/52)  
/dev/tty51: character special (4/51)  
/dev/tty50: character special (4/50)  
/dev/tty49: character special (4/49)  
/dev/tty48: character special (4/48)  
/dev/tty47: character special (4/47)  
/dev/tty46: character special (4/46)  
/dev/tty45: character special (4/45)  
/dev/tty44: character special (4/44)  
/dev/tty43: character special (4/43)  
/dev/tty42: character special (4/42)  
/dev/tty41: character special (4/41)  
/dev/tty40: character special (4/40)  
/dev/tty39: character special (4/39)  
/dev/tty38: character special (4/38)  
/dev/tty37: character special (4/37)  
/dev/tty36: character special (4/36)

/dev/tty35: character special (4/35)  
/dev/tty34: character special (4/34)  
/dev/tty33: character special (4/33)  
/dev/tty32: character special (4/32)  
/dev/tty31: character special (4/31)  
/dev/tty30: character special (4/30)  
/dev/tty29: character special (4/29)  
/dev/tty28: character special (4/28)  
/dev/tty27: character special (4/27)  
/dev/tty26: character special (4/26)  
/dev/tty25: character special (4/25)  
/dev/tty24: character special (4/24)  
/dev/tty23: character special (4/23)  
/dev/tty22: character special (4/22)  
/dev/tty21: character special (4/21)  
/dev/tty20: character special (4/20)  
/dev/tty19: character special (4/19)  
/dev/tty18: character special (4/18)  
/dev/tty17: character special (4/17)  
/dev/tty16: character special (4/16)  
/dev/tty15: character special (4/15)  
/dev/tty14: character special (4/14)  
/dev/tty13: character special (4/13)  
/dev/tty12: character special (4/12)  
/dev/tty11: character special (4/11)  
/dev/tty10: character special (4/10)  
/dev/tty9: character special (4/9)  
/dev/tty8: character special (4/8)  
/dev/tty7: character special (4/7)  
/dev/tty6: character special (4/6)  
/dev/tty5: character special (4/5)  
/dev/tty4: character special (4/4)  
/dev/tty3: character special (4/3)  
/dev/tty2: character special (4/2)  
/dev/tty1: character special (4/1)  
/dev/vcsa1: character special (7/129)  
/dev/vcs1: character special (7/1)  
/dev/vcsa: character special (7/128)  
/dev/vcs: character special (7/0)  
/dev/tty0: character special (4/0)  
/dev/console: character special (5/1)  
/dev/tty: character special (5/0)  
/dev/kmsg: character special (1/11)

```
/dev/urandom: character special (1/9)
/dev/random: character special (1/8)
/dev/full: character special (1/7)
/dev/zero: character special (1/5)
/dev/null: character special (1/3)
/dev/kmem: character special (1/2)
/dev/mem: character special (1/1)
/dev/v4l-subdev12: character special (81/12)
/dev/v4l-subdev11: character special (81/11)
/dev/v4l-subdev10: character special (81/10)
/dev/v4l-subdev9: character special (81/9)
/dev/v4l-subdev8: character special (81/8)
/dev/v4l-subdev7: character special (81/7)
/dev/v4l-subdev6: character special (81/6)
/dev/v4l-subdev5: character special (81/5)
/dev/v4l-subdev4: character special (81/4)
/dev/v4l-subdev3: character special (81/3)
/dev/v4l-subdev2: character special (81/2)
/dev/v4l-subdev1: character special (81/1)
/dev/v4l-subdev0: character special (81/0)
/dev/media0: character special (252/0)
/dev/fb0: character special (29/0)
/dev/disp: character special (250/0)
/dev/rfkill: character special (10/62)
/dev/ion: character special (10/63)
/dev/gpiochip1: character special (254/1)
/dev/gpiochip0: character special (254/0)
*-device
    description: SD Card
    product: USD
    physical id: 0
    logical name: /dev/mmcblk0
    version: 2.0
    date: 10/2025
    serial: 46848
    size: 58GiB (62GB)
    capabilities: sd gpt-1.00 partitioned partitioned:gpt
    configuration: guid=ab6f3888-569a-4926-9668-80941dcb40bc
logicalsectorsize=512 sectorsize=512
*-device
    description: SD Card
    product: 032GB
    vendor: Unknown (159)
```

physical id: 0  
logical name: /dev/mmcblk1  
date: 09/2024  
serial: 1769  
size: 29GiB (31GB)  
capabilities: sd partitioned partitioned:dos  
configuration: logicalsectorsize=512 sectorsize=512 signature=cf25bf97

07: None 00.0: 10600 Disk

[Created at block.245]  
Unique ID: VV0c.Fxp0d3BezAE  
SysFS ID: /class/block/ram11  
Hardware Class: disk  
Model: "Disk"  
Device File: /dev/ram11  
Device Number: block 1:11  
Size: 16384 sectors a 512 bytes  
Capacity: 0 GB (8388608 bytes)  
Config Status: cfg=new, avail=yes, need=no, active=unknown

08: None 00.0: 10600 Disk

[Created at block.245]  
Unique ID: 7tlP.Fxp0d3BezAE  
SysFS ID: /class/block/ram2  
Hardware Class: disk  
Model: "Disk"  
Device File: /dev/ram2  
Device Number: block 1:2  
Size: 16384 sectors a 512 bytes  
Capacity: 0 GB (8388608 bytes)  
Config Status: cfg=new, avail=yes, need=no, active=unknown

09: None 00.0: 10600 Disk

[Created at block.245]  
Unique ID: CWFH.Fxp0d3BezAE  
SysFS ID: /class/block/ram0  
Hardware Class: disk  
Model: "Disk"  
Device File: /dev/ram0  
Device Number: block 1:0  
Size: 16384 sectors a 512 bytes  
Capacity: 0 GB (8388608 bytes)  
Config Status: cfg=new, avail=yes, need=no, active=unknown

10: None 00.0: 10600 Disk

[Created at block.245]

Unique ID: XOSI.Fxp0d3BezAE

SysFS ID: /class/block/ram9

Hardware Class: disk

Model: "Disk"

Device File: /dev/ram9

Device Number: block 1:9

Size: 16384 sectors a 512 bytes

Capacity: 0 GB (8388608 bytes)

Config Status: cfg=new, avail=yes, need=no, active=unknown

11: None 00.0: 10600 Disk

[Created at block.245]

Unique ID: d1y9.Fxp0d3BezAE

SysFS ID: /class/block/ram7

Hardware Class: disk

Model: "Disk"

Device File: /dev/ram7

Device Number: block 1:7

Size: 16384 sectors a 512 bytes

Capacity: 0 GB (8388608 bytes)

Config Status: cfg=new, avail=yes, need=no, active=unknown

12: None 00.0: 10600 Disk

[Created at block.245]

Unique ID: kLao.Fxp0d3BezAE

Parent ID: B7Wk.\_NN+DZ1HDn4

SysFS ID: /class/block/mmcblk1

SysFS BusID: mmc1:0001

SysFS Device Link: /devices/platform/soc/sdc2/mmc\_host/mmc1/mmc1:0001

Hardware Class: disk

Model: "Disk"

Driver: "sunxi-mmc", "mmcblk"

Device File: /dev/mmcblk1

Device Files: /dev/mmcblk1, /dev/disk/by-path/platform-sdc2, /dev/disk/by-id/mmc-032GB\_0x0000006e9

Device Number: block 179:16-179:31

Geometry (Logical): CHS 954208/4/16

Size: 61069312 sectors a 512 bytes

Capacity: 29 GB (31267487744 bytes)

Config Status: cfg=new, avail=yes, need=no, active=unknown

Attached to: #4 (MMC Controller)

13: None 00.0: 10600 Disk

[Created at block.245]

Unique ID: s19p.Fxp0d3BezAE

SysFS ID: /class/block/ram14

Hardware Class: disk

Model: "Disk"

Device File: /dev/ram14

Device Number: block 1:14

Size: 16384 sectors a 512 bytes

Capacity: 0 GB (8388608 bytes)

Config Status: cfg=new, avail=yes, need=no, active=unknown

14: None 00.0: 10600 Disk

[Created at block.245]

Unique ID: UPWc.Fxp0d3BezAE

SysFS ID: /class/block/ram5

Hardware Class: disk

Model: "Disk"

Device File: /dev/ram5

Device Number: block 1:5

Size: 16384 sectors a 512 bytes

Capacity: 0 GB (8388608 bytes)

Config Status: cfg=new, avail=yes, need=no, active=unknown

15: None 00.0: 10600 Disk

[Created at block.245]

Unique ID: ygeg.Fxp0d3BezAE

SysFS ID: /class/block/ram12

Hardware Class: disk

Model: "Disk"

Device File: /dev/ram12

Device Number: block 1:12

Size: 16384 sectors a 512 bytes

Capacity: 0 GB (8388608 bytes)

Config Status: cfg=new, avail=yes, need=no, active=unknown

16: None 00.0: 10600 Disk

[Created at block.245]

Unique ID: a20U.Fxp0d3BezAE

SysFS ID: /class/block/ram3

Hardware Class: disk

Model: "Disk"



Device File: /dev/ram3  
Device Number: block 1:3  
Size: 16384 sectors a 512 bytes  
Capacity: 0 GB (8388608 bytes)  
Config Status: cfg=new, avail=yes, need=no, active=unknown

17: None 00.0: 10600 Disk

[Created at block.245]  
Unique ID: 2K8Y.Fxp0d3BezAE  
SysFS ID: /class/block/ram10  
Hardware Class: disk  
Model: "Disk"  
Device File: /dev/ram10  
Device Number: block 1:10  
Size: 16384 sectors a 512 bytes  
Capacity: 0 GB (8388608 bytes)  
Config Status: cfg=new, avail=yes, need=no, active=unknown

18: None 00.0: 10600 Disk

[Created at block.245]  
Unique ID: ghVL.Fxp0d3BezAE  
SysFS ID: /class/block/ram1  
Hardware Class: disk  
Model: "Disk"  
Device File: /dev/ram1  
Device Number: block 1:1  
Size: 16384 sectors a 512 bytes  
Capacity: 0 GB (8388608 bytes)  
Config Status: cfg=new, avail=yes, need=no, active=unknown

19: None 00.0: 10600 Disk

[Created at block.245]  
Unique ID: 4DCE.Fxp0d3BezAE  
SysFS ID: /class/block/ram8  
Hardware Class: disk  
Model: "Disk"  
Device File: /dev/ram8  
Device Number: block 1:8  
Size: 16384 sectors a 512 bytes  
Capacity: 0 GB (8388608 bytes)  
Config Status: cfg=new, avail=yes, need=no, active=unknown

20: None 00.0: 10600 Disk

[Created at block.245]  
Unique ID: JDPt.Fxp0d3BezAE  
SysFS ID: /class/block/ram15  
Hardware Class: disk  
Model: "Disk"  
Device File: /dev/ram15  
Device Number: block 1:15  
Size: 16384 sectors a 512 bytes  
Capacity: 0 GB (8388608 bytes)  
Config Status: cfg=new, avail=yes, need=no, active=unknown

21: None 00.0: 10600 Disk

[Created at block.245]  
Unique ID: xamg.Fxp0d3BezAE  
SysFS ID: /class/block/ram6  
Hardware Class: disk  
Model: "Disk"  
Device File: /dev/ram6  
Device Number: block 1:6  
Size: 16384 sectors a 512 bytes  
Capacity: 0 GB (8388608 bytes)  
Config Status: cfg=new, avail=yes, need=no, active=unknown

22: None 00.0: 10600 Disk

[Created at block.245]  
Unique ID: HAKk.Fxp0d3BezAE  
Parent ID: eJeF.\_NN+DZ1HDn4  
SysFS ID: /class/block/mmcblk0  
SysFS BusID: mmc0:0001  
SysFS Device Link: /devices/platform/soc/sdc0/mmc\_host/mmc0/mmc0:0001  
Hardware Class: disk  
Model: "Disk"  
Driver: "sunxi-mmc", "mmcblk"  
Device File: /dev/mmcblk0  
Device Files: /dev/mmcblk0, /dev/disk/by-id/mmc-USD\_0x0000b700, /dev/disk/by-path/platform-sdc0  
Device Number: block 179:0-179:15  
Geometry (Logical): CHS 1908416/4/16  
Size: 122138624 sectors a 512 bytes  
Capacity: 58 GB (62534975488 bytes)  
Config Status: cfg=new, avail=yes, need=no, active=unknown  
Attached to: #5 (MMC Controller)

23: None 00.0: 10600 Disk

[Created at block.245]

Unique ID: Psuk.Fxp0d3BezAE

SysFS ID: /class/block/ram13

Hardware Class: disk

Model: "Disk"

Device File: /dev/ram13

Device Number: block 1:13

Size: 16384 sectors a 512 bytes

Capacity: 0 GB (8388608 bytes)

Config Status: cfg=new, avail=yes, need=no, active=unknown

24: None 00.0: 10600 Disk

[Created at block.245]

Unique ID: 1EGY.Fxp0d3BezAE

SysFS ID: /class/block/ram4

Hardware Class: disk

Model: "Disk"

Device File: /dev/ram4

Device Number: block 1:4

Size: 16384 sectors a 512 bytes

Capacity: 0 GB (8388608 bytes)

Config Status: cfg=new, avail=yes, need=no, active=unknown

| Filesystem | Size | Used | Avail | Use% | Mounted on |
|------------|------|------|-------|------|------------|
|------------|------|------|-------|------|------------|

|                |      |      |      |     |   |
|----------------|------|------|------|-----|---|
| /dev/mmcblk0p5 | 6.9G | 5.5G | 1.1G | 85% | / |
|----------------|------|------|------|-----|---|

|       |      |     |      |    |          |
|-------|------|-----|------|----|----------|
| tmpfs | 487M | 84K | 487M | 1% | /dev/shm |
|-------|------|-----|------|----|----------|

|       |      |      |      |    |      |
|-------|------|------|------|----|------|
| tmpfs | 195M | 1.4M | 194M | 1% | /run |
|-------|------|------|------|----|------|

|       |      |      |      |    |           |
|-------|------|------|------|----|-----------|
| tmpfs | 5.0M | 4.0K | 5.0M | 1% | /run/lock |
|-------|------|------|------|----|-----------|

|                |      |      |      |     |             |
|----------------|------|------|------|-----|-------------|
| /dev/mmcblk0p6 | 3.9G | 2.4G | 1.4G | 64% | /mnt/vendor |
|----------------|------|------|------|-----|-------------|

|                |     |      |     |     |             |
|----------------|-----|------|-----|-----|-------------|
| /dev/mmcblk1p1 | 30G | 6.4G | 23G | 22% | /mnt/sdcard |
|----------------|-----|------|-----|-----|-------------|

|                |      |     |      |    |           |
|----------------|------|-----|------|----|-----------|
| /dev/mmcblk0p7 | 1.3G | 56K | 1.2G | 1% | /mnt/data |
|----------------|------|-----|------|----|-----------|

|                |      |      |      |     |          |
|----------------|------|------|------|-----|----------|
| /dev/mmcblk0p1 | 2.0G | 506M | 1.6G | 25% | /mnt/mmc |
|----------------|------|------|------|-----|----------|

|       |     |     |     |    |                |
|-------|-----|-----|-----|----|----------------|
| tmpfs | 98M | 44K | 98M | 1% | /run/user/1000 |
|-------|-----|-----|-----|----|----------------|

| Filesystem | 1K-blocks | Used | Available | Use% | Mounted on |
|------------|-----------|------|-----------|------|------------|
|------------|-----------|------|-----------|------|------------|

|                |         |         |         |     |   |
|----------------|---------|---------|---------|-----|---|
| /dev/mmcblk0p5 | 7201028 | 5766092 | 1089816 | 85% | / |
|----------------|---------|---------|---------|-----|---|

|       |        |    |        |    |          |
|-------|--------|----|--------|----|----------|
| tmpfs | 498312 | 84 | 498228 | 1% | /dev/shm |
|-------|--------|----|--------|----|----------|

|       |        |      |        |    |      |
|-------|--------|------|--------|----|------|
| tmpfs | 199328 | 1416 | 197912 | 1% | /run |
|-------|--------|------|--------|----|------|

|       |      |   |      |    |           |
|-------|------|---|------|----|-----------|
| tmpfs | 5120 | 4 | 5116 | 1% | /run/lock |
|-------|------|---|------|----|-----------|

|                |         |         |         |     |             |
|----------------|---------|---------|---------|-----|-------------|
| /dev/mmcblk0p6 | 4080704 | 2458328 | 1414056 | 64% | /mnt/vendor |
|----------------|---------|---------|---------|-----|-------------|

|                |          |         |          |     |             |
|----------------|----------|---------|----------|-----|-------------|
| /dev/mmcblk1p1 | 30522368 | 6623008 | 23899360 | 22% | /mnt/sdcard |
|----------------|----------|---------|----------|-----|-------------|

|                |         |    |         |    |           |
|----------------|---------|----|---------|----|-----------|
| /dev/mmcblk0p7 | 1272572 | 56 | 1189624 | 1% | /mnt/data |
|----------------|---------|----|---------|----|-----------|

|                |         |        |         |     |          |
|----------------|---------|--------|---------|-----|----------|
| /dev/mmcblk0p1 | 2093048 | 517696 | 1575352 | 25% | /mnt/mmc |
|----------------|---------|--------|---------|-----|----------|

|       |       |    |       |    |                |
|-------|-------|----|-------|----|----------------|
| tmpfs | 99660 | 44 | 99616 | 1% | /run/user/1000 |
|-------|-------|----|-------|----|----------------|

Model: SD 032GB (sd/mmc)  
Disk /dev/mmcblk1: 31.3GB  
Sector size (logical/physical): 512B/512B  
Partition Table: msdos  
Disk Flags:

| Number | Start  | End    | Size   | Type    | File system | Flags |
|--------|--------|--------|--------|---------|-------------|-------|
| 1      | 4194kB | 31.3GB | 31.3GB | primary | fat32       | lba   |

Model: SD USD (sd/mmc)  
Disk /dev/mmcblk0: 62.5GB  
Sector size (logical/physical): 512B/512B  
Partition Table: gpt  
Disk Flags:

| Number | Start  | End    | Size   | File system | Name          | Flags    |
|--------|--------|--------|--------|-------------|---------------|----------|
| 1      | 37.7MB | 2185MB | 2147MB | fat32       | Roms          | msftdata |
| 2      | 2185MB | 2219MB | 33.6MB | fat16       | boot-resource | msftdata |
| 3      | 2219MB | 2236MB | 16.8MB |             | env           | msftdata |
| 4      | 2236MB | 2303MB | 67.1MB |             | boot          | msftdata |
| 5      | 2303MB | 9819MB | 7516MB | ext4        | rootfs        | msftdata |
| 6      | 9819MB | 14.1GB | 4295MB | ext4        | appfs         | msftdata |
| 7      | 14.1GB | 15.5GB | 1362MB | ext4        | UDISK         | msftdata |

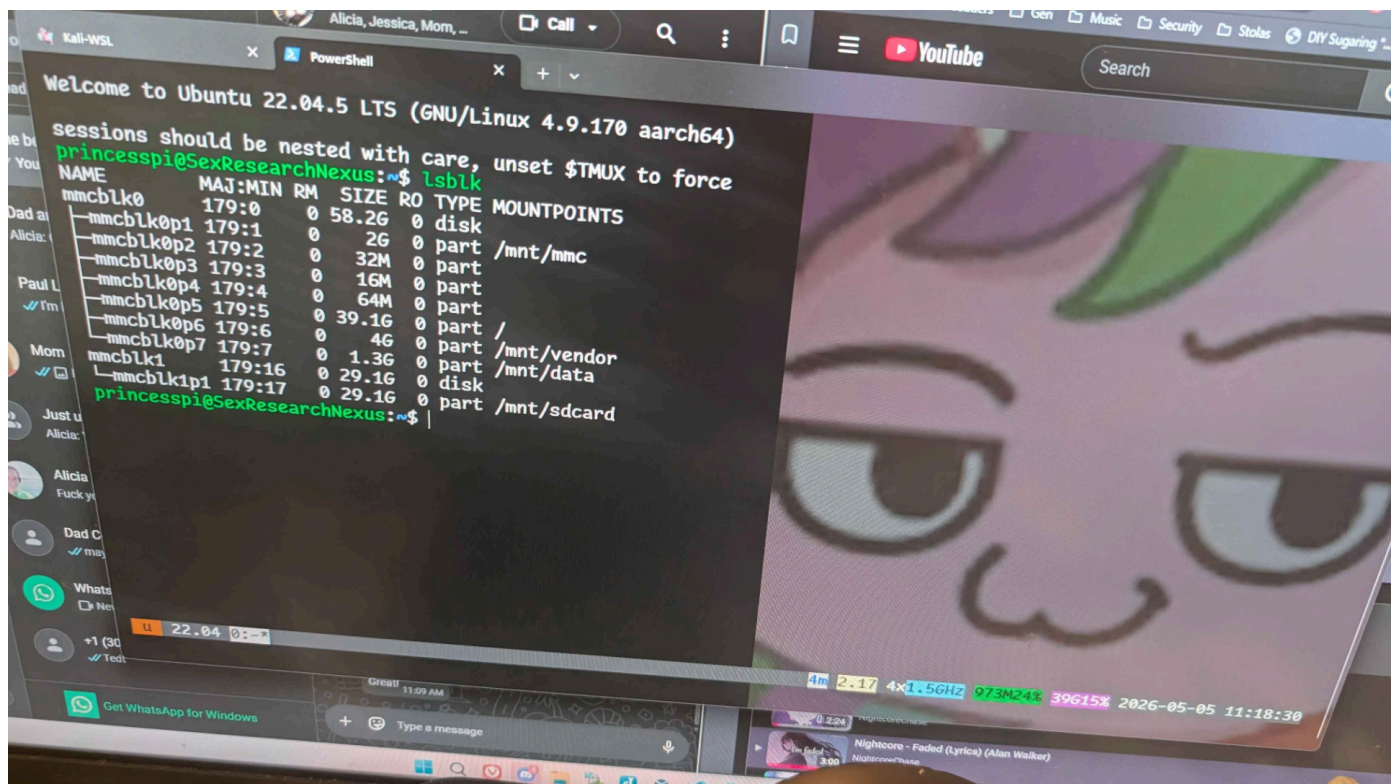
## Anbernic Files Savin Archivin ig

---

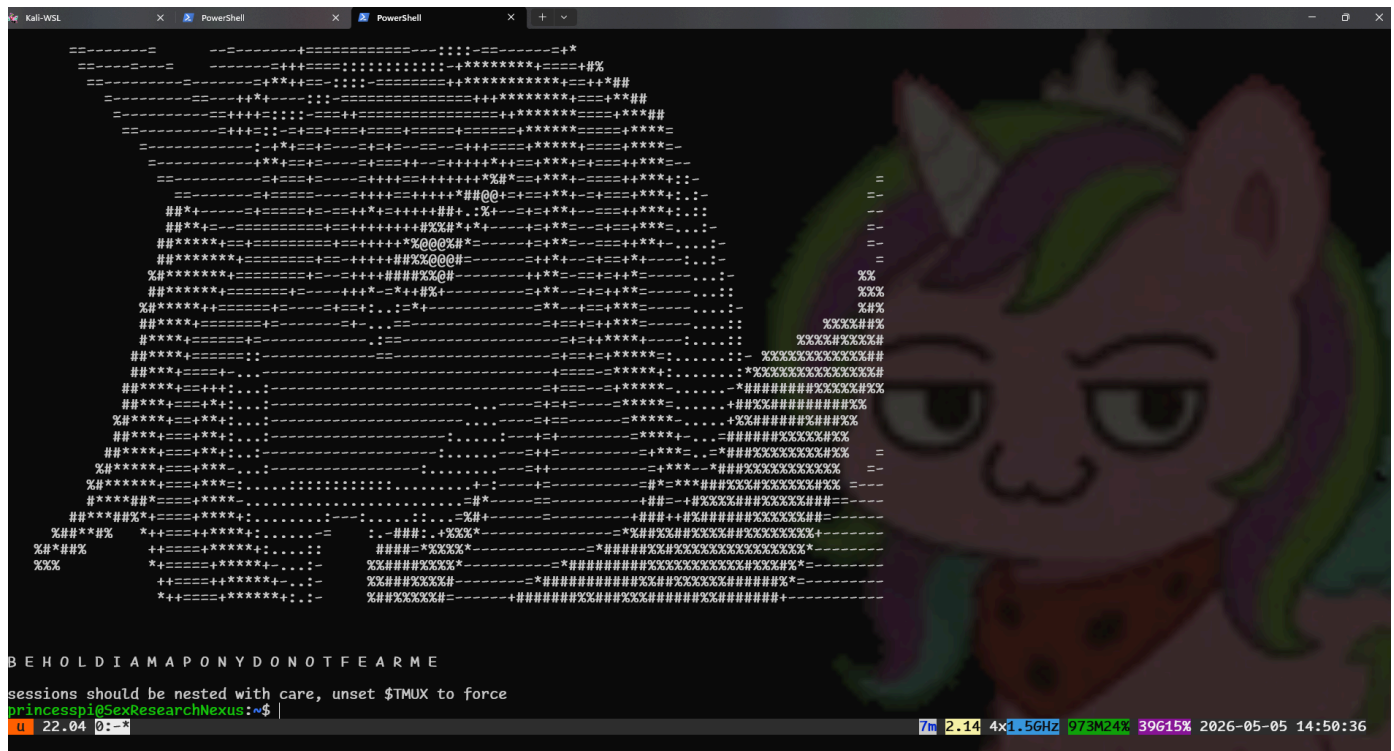
```
wsl bash /mnt/c/Users/human/OneDrive/Documents/Git/general-scripts-and-system-ssssssetup/customscripts/Anbernic-Savin-ig.sh
```

## FUCKING SUCCESS BITCHES

---







LETS FUCKING GOOOO I GOT THE PARTITIONS COOPERATING AND EXPANDED AND IT  
FUCKIN BOOTED FIRST TRY AND I CONFIRMED THE EXTRA SPACE LETS FUCKING GOOOO I  
AM THE GODDESS OF THE NUGGETS I AM DEUS EX NUGGETA

## todo

- ☒ document that /mnt/mmc to fat32 partition on boot disk
  - ☒ document how you merged and copied the roms
- ☐ document file locations found
  - ☐ txt files and shit
  - ☒ other mountpoints
- ☒ add personal roms to second microsd
- ☒ add swap partition (maybe smallerize that ext4 part?) to boot microd
- ☐ Figre out boot
- ☐ bluetooth teathering MANDATORY
- ☐ figure out bios
  - ☒ explore filesystem for clues including the "off" partitions
  - ☐ keyboard plugged in via usb-c and interrupting the boot: F keys, delete, esc, etc
- ☒ bigger microsds, ideally 512s but 256 or less acceptable so long as 128 or over
  - ☒ add music
  - ☒ add videos
- ☒ full image dump of both boot microsd and media microsd

- ☐ hunt for:
  - ☒ microsd cards >=64gb
  - ☐ rpi cables
- ☐ wifi monitor modes
  - ☐ try airmon-ng
  - ☐ try iw method
- ☒ make swap partition
- ☐ teathering to phone (wifi OR bt)

## updates

- /mnt/mmc is by default mapped to a 4gb fat32 partion on the boot sd, i set a service to umount it and mount the 512gb fat32 formatted sd card in its place. works much better
  - with that, all media be workan smooth
  - also storing assorted wordlists and searchsploit db on the 512gb
  - searchsploit (workan- kinda)
- check mappings in /mnt and with fdisk (-f)
  - attempt to construct a map out of it
    - `git clone https://gitlab.com/exploit-database/exploitdb.git /mnt/mmc/searchsploit`
    - `sudo rm -rf /usr/share/exploitdb`
    - `sudo rm -rf /opt/exploitdb`
    - `sudo ln -s /mnt/mmc/searchsploit /usr/share/exploitdb`
    - `sudo ln -s /mnt/mmc/searchsploit /opt/exploitdb`
    - `searchsploit -u`
  - searchsploit db just coppied off another box at /usr/share/exploitdb and added manually to the media sd card
- got a large (6.5gb) swap partition added by formating teh last unformatted 6gb space on the boot disk as swap, then adding it to the fstab and verified with `swapon --show` and `lsblk -f`
- avahi-daemon was used to make it locatable via mdns
- wordlists on media drive
  - copy all from kali /usr/share/wordlists
  - seclists
  - my own lists
- installed metasploit with

```
curl https://raw.githubusercontent.com/rapid7/metasploit-omnibus/master/config/templates/metasploit-framework-wrappers/msfupdate.erb > msfinstall
chmod +x msfinstall
./msfinstall
msfconsole
```

- installed responder with

```
cd ~
git clone https://github.com/SpiderLabs/Responder.git
```

- ~~installed pyenv with~~ BROKEN

```
curl -fsSL https://pyenv.run | bash
# and adding these to .bashrc
PATH=$PATH:$HOME/.pyenv/bin
eval "$(pyenv virtualenv-init -)"
# save and exit
source ~/.bashrc
pyenv install -l # list py versions
pyenv install 3.14.5
pyenv global 3.14.5
```

- thefuck

```
# from inside pyenv global
pip install thefuck
# add to .bashrc
eval "$(thefuck --alias fuck)"
# save and exit
source ~/.bashrc
```

- next install
  - openssl
  - argon2
  - scryptchecklist for formal release

- ☐ wifi 2.4ghz available in mon
- ☐ wifi 5ghz is usable in mdk4
- ☐ wifi and bluetooth usable in scapy
- ☐ hashcat works (even if slow)
- ☐ teathering to phone



- ✓ anonymized copy
- ✓ test image repeatedly for consistency and clarity of instructions

## overnight notes

- pi5 has dat 512gb img maybe in byobu
  - move to D:\Anbernic\_save
  - empty Downloads dir
- D:\Anbernic\_save has all da images, xzs and sha256s then backed up with restic
- casaos has flame bulk media running in byobu

## bugs

- occasional lock up and crash under hard work

## Revisions from release 1 to 2

- actual installed tools list
- media microsd optional
- authorized\_keys and ssh keys wiped out
- zero out parts for smaller img.xz
- some started web app shit
  - princesspinmap
  - idk lol
- test/figure out firewall shit
- remove ssh keys, user ssh configsm, and authorized\_keys files, etc

### full apt package list?

```
sudo apt update && sleep 10 && sudo apt install nmap ffuf apache2 php8.1 byobu  
macchanger build-essential libimage-exiftool-perl bully hcxdumptool minicom picocom  
thefuck ripgrep mdk4 git gh btop flashrom binwalk lynx cowsay iotop iptraf-ng  
smbclient zip unzip 7zip net-tools clamav xz-utils openssl curl wget xxd wpa-  
supPLICant argon2 stegnosuite samba ntfs ftp sftp restic screen scrypt dos2unix  
hostapd hcitool bluez scapy avahi-daemon hashcat -y
```

## privacy for release checklist

- ✓ .ssh files
- ✓ gh/github creds
- ✓ git username and email
- ✓ passwords

- ☒ ssh
- ☒ wifi
- ☒ reset pass to princesspi
- ☒ expired pass
- ☒ removed all wifi
- ☒ removed all bluetooth
- ☒ removed all ~/.ssh

## last minute shit

1. ~~dat ssh.7z~~
  1. **remove manually**
  2. decompress
  3. ~~mount linuxrootfs partition~~
  4. ~~shred and zero the file~~
  5. ~~re-compress~~
  6. ~~re-validate compression~~
  7. ~~generate new sha256~~

**FUCKIT i'll re-issue those keys it aint fuckin worth it its an easter egg fuck you**
2. member to fuckin zero next time, shit