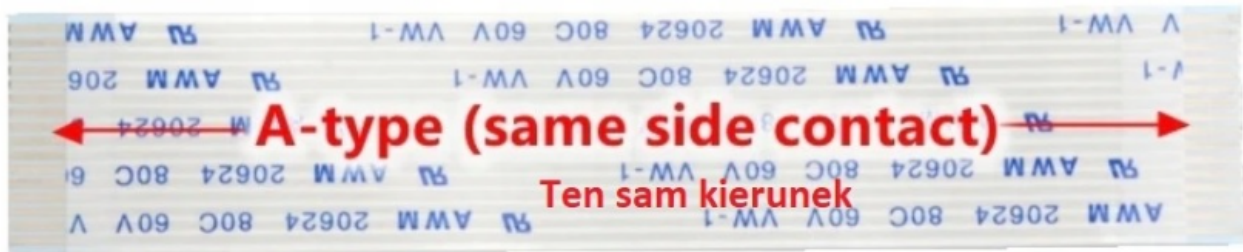
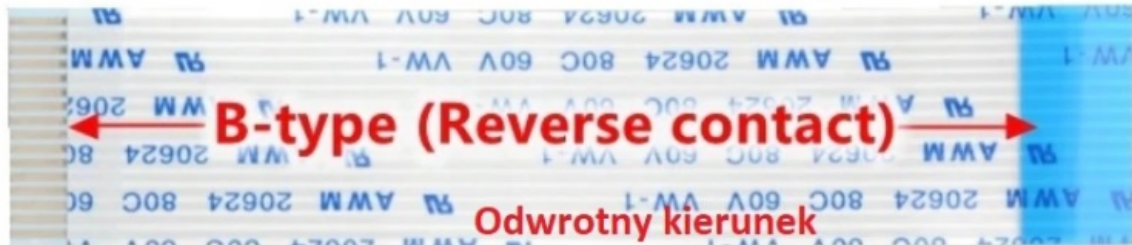


# Projects

- 12-pin FFC ribbon for Raspberry Pi camera
- Orange Pi PC 2 - OS image

# 12-pin FFC ribbon for Raspberry Pi camera



FFC tape 12 pin 150mm 0.5 15cm type B tape

Description: AWM 20624 80C 60V VW-1

Number of pins: 12pin

Raster: 0.5mm

Tape width: about 6.5mm

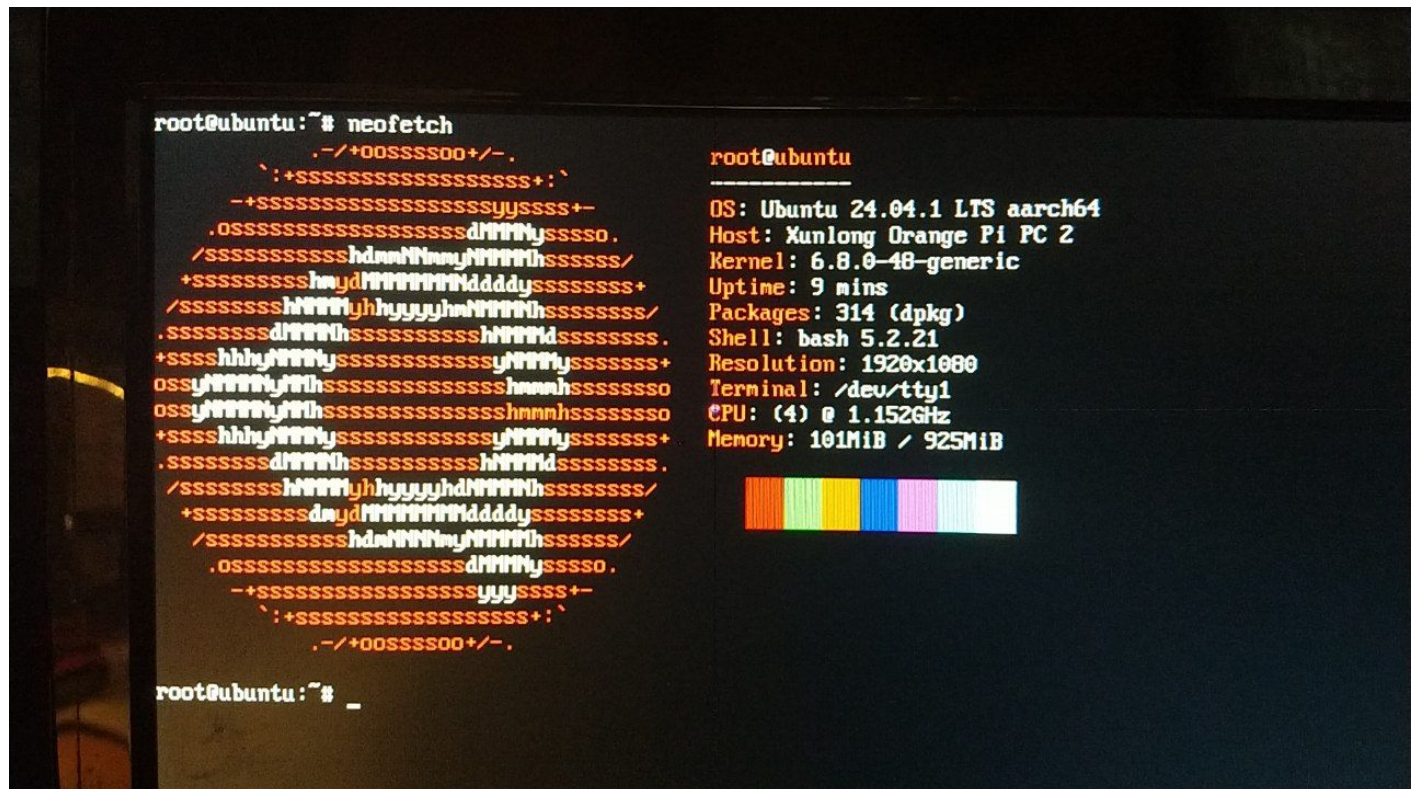
Tape length: 150mm

# Orange Pi PC 2 - OS image

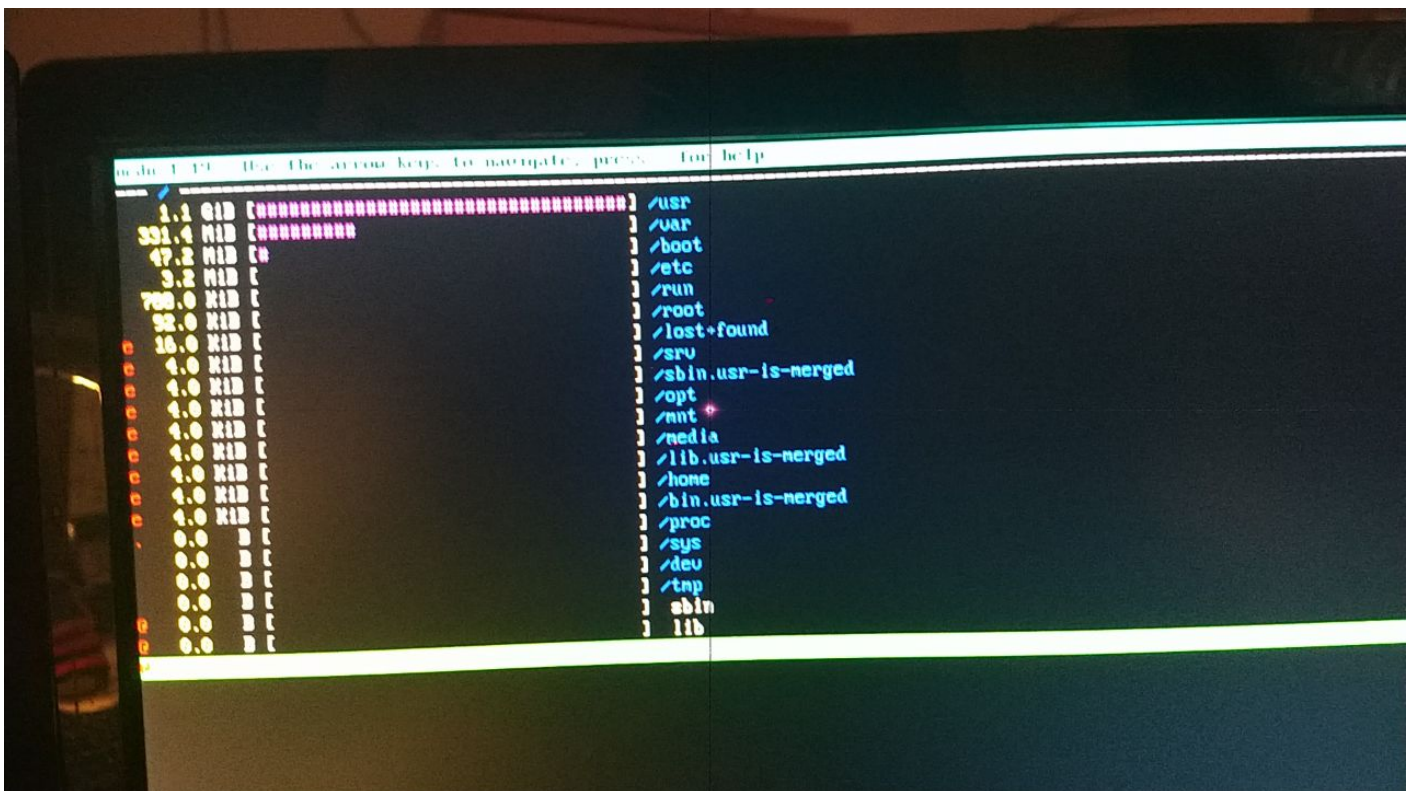
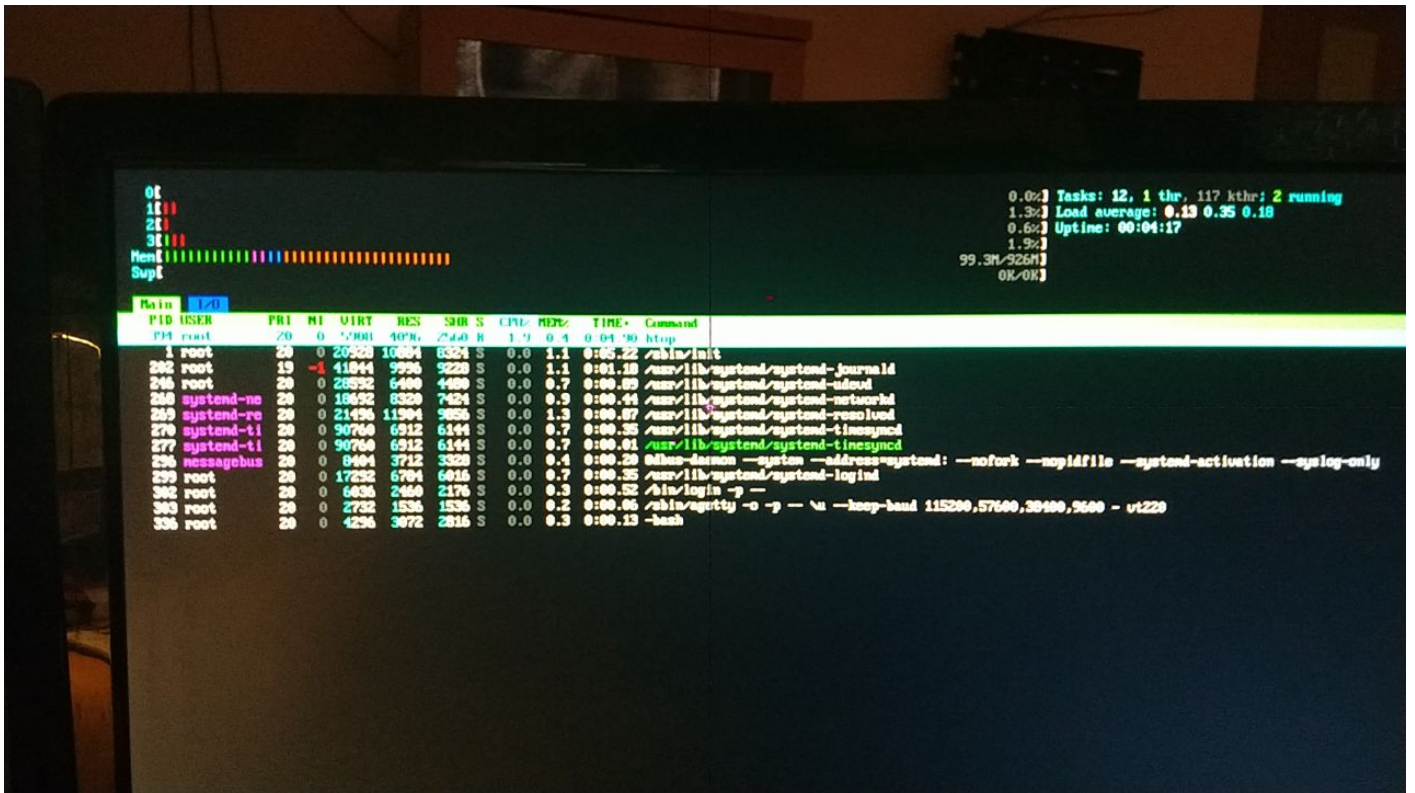
Orange Pi PC2 SD card images

[https://sd-card-images.johang.se/boards/orange\\_pi\\_pc2.html](https://sd-card-images.johang.se/boards/orange_pi_pc2.html)

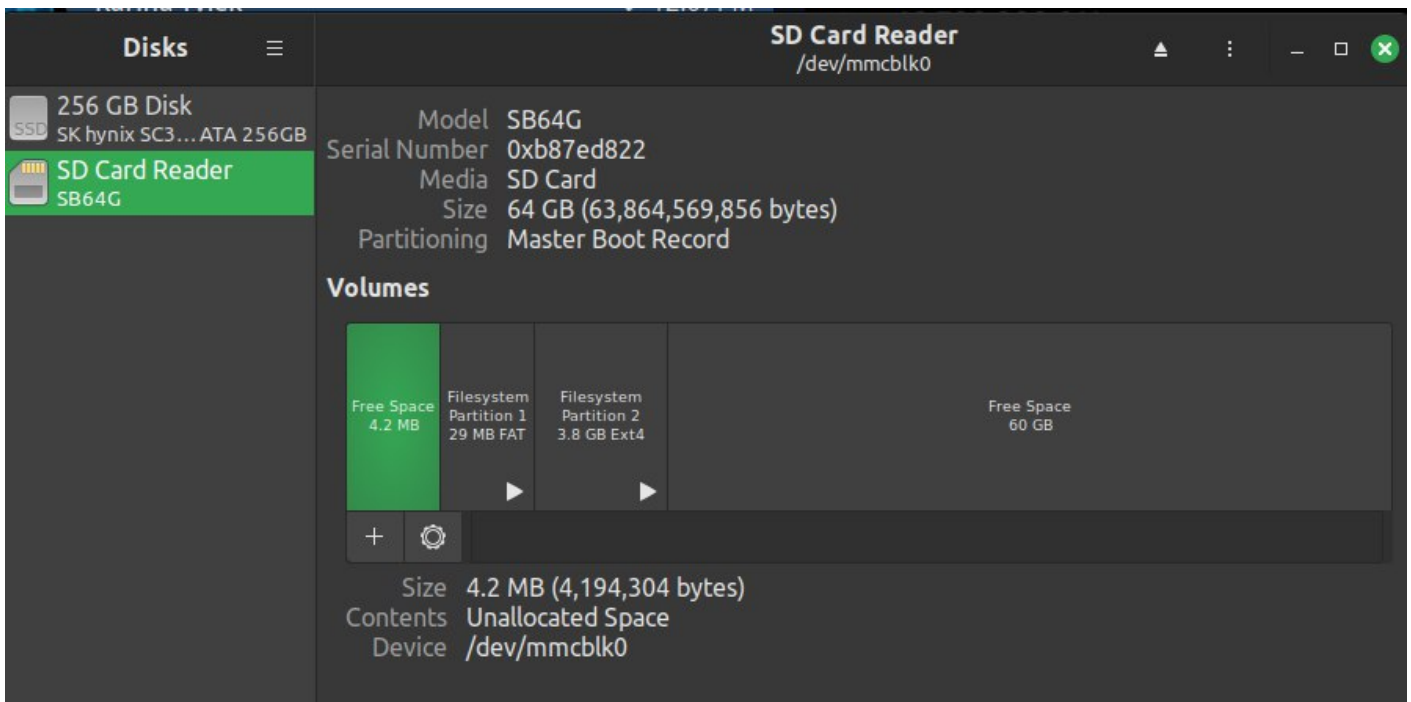
Xunlong Orange Pi PC2 running Ubuntu 24.04 LTS







Disk layout - 64 GB but only 4 GB would be sufficient probably



It takes about 12 minutes. Unusable. 64 GB

It can be "shaved" and saved.

<https://web.archive.org/web/20200602173912/https://softwarebakery.com/shrinking-images-on-linux>

## Truncate empty space from a raw dd image

<https://superuser.com/questions/958812/truncate-empty-space-from-a-raw-dd-image>

Check for sector sizes:

```
sudo fdisk -l '/home/user/images/test.img'
```

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: 0x00070424

Device	Boot	Start	End	Sectors	Size	Id	Type
/home/user/images/test.img1	*	2048	26623	24576	12M	e	W95 FAT16
/home/user/images/test.img2		26624	7200767	7174144	3,4G	83	Linux

Use end number (7200767) as reference add 1 and \* 512 like below:

```
sudo truncate --size=$((7200767+1)*512) '/home/user/images/test.img'
```

Your file should be truncated

## Opposite process:

<https://serverfault.com/questions/870594/resize-partition-to-maximum-using-parted-in-non-interactive-mode>



# Locale error

```
root@192.168.1.103's password:
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-48-generic aarch64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:       https://ubuntu.com/pro
-bash: warning: setlocale: LC_ALL: cannot change locale (en_US.UTF-8)
root@ubuntu:~# neofetch

  .-/+oosssso+/-.
  `:+ssssssssssss++:`
    -+ssssssssssssyyssss+-
      .ossssssssssssssdMMMMyssso.
        /ssssssssshdmmNNmmyNMMMMhssssss/
          +ssssssshmydMMMMMMNdddyssssssst+
            /ssssssshNMMMyhhyyyhmNMMMNhssssssss/
              .sssssssdMMMNhssssssshNMMMdssssssss.
+ssssshhhyNMMNysssssssssssyNMMMyssssssst+
ossyNMMMNyMMhssssssssssssshmmmhssssssso
ossyNMMMNyMMhssssssssssssshmmmhssssssso
+ssssshhhyNMMNysssssssssssyNMMMyssssssst+
.ssssssssdMMMNhssssssssshNMMMdssssssss.
 /ssssssshNMMMyhhyyyhdNMMMNhssssssss/

root@ubuntu
-----
OS: Ubuntu 24.04.1 LTS aarch64
Host: Xunlong Orange Pi PC 2
Kernel: 6.8.0-48-generic
Uptime: 5 mins
Packages: 317 (dpkg)
Shell: bash 5.2.21
Resolution: 1920x1080
Terminal: /dev/pts/0
CPU: (4) @ 1.152GHz
Memory: 104MiB / 925MiB
```

How to fix the error:

-bash: warning: setlocale: LC\_ALL: cannot change locale (en\_US.UTF-8)

<https://stackoverflow.com/questions/27292368/vagrantfile-set-locale-for-ssh-agent>

```
root@ubuntu:~# htop

0.7% 408MHz] Tasks: 14, 1 thr, 110 kthr; 2 running
1.3% 408MHz] Load average: 0.77 0.29 0.11
2[ 0.0% 408MHz] Uptime: 00:01:10
3[ 0.0% 408MHz]
Mem[|||||||] 96.8M/926M
Swp[|] 0K/0K

Main 170
PID USER PRI NI VIRT RES SHR S CPU% MEM% TIME+ Command
340 root 20 0 8020 3712 2944 R 3.3 0.4 0:00.15 htop
1 root 20 0 20928 11140 8452 S 0.0 1.2 0:04.87 /sbin/init
203 root 19 -1 33652 11156 10388 S 0.0 1.2 0:00.99 /usr/lib/systemd/systemd-journald
246 root 20 0 28856 6784 4480 S 0.0 0.7 0:00.88 /usr/lib/systemd/systemd-udevd
264 systemd-ne 20 0 18692 8320 7424 S 0.0 0.9 0:00.38 /usr/lib/systemd/systemd-networkd
269 systemd-re 20 0 21488 12032 9984 S 0.0 1.3 0:00.87 /usr/lib/systemd/systemd-resolved
270 systemd-ti 20 0 90760 6912 6144 S 0.0 0.7 0:00.34 /usr/lib/systemd/systemd-timesyncd
286 messagebus 20 0 8404 3584 3200 S 0.0 0.4 0:00.19 @dbus-daemon --system --address=systemd: --nofork --nopidfile --systemd-activat
288 root 20 0 17192 7040 6144 S 0.0 0.7 0:00.33 /usr/lib/systemd/systemd-logind
291 root 20 0 5676 1408 1408 S 0.0 0.1 0:00.07 /sbin/agetty -o -p -- \u --noclear - linux
292 root 20 0 5292 1664 1664 S 0.0 0.2 0:00.05 /sbin/agetty -o -p -- \u --keep-baud 115200,57600,38400,9600 - vt220
315 systemd-ti 20 0 90760 6912 6144 S 0.0 0.7 0:00.02 /usr/lib/systemd/systemd-timesyncd
319 root 20 0 12052 7040 6016 S 0.0 0.7 0:00.11 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups
320 root 20 0 14072 6720 5376 S 0.0 0.7 0:00.46 sshd: root@pts/0
330 root 20 0 7312 3712 3328 S 0.0 0.4 0:00.08 -bash
```

No more locale error.

Only 96.6 MB of RAM used (out of 926 MB) or about 10% only.