Jeff Geerling

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Format the built-in eMMC storage on an Orange Pi Plus

March 7, 2016

To use the built-in 8GB of eMMC storage on the Orange Pi Plus as a writable volume in Linux, you need to delete the existing partitions (I think mine were formatted as FAT/WIN32), create a new partition, format the partition, then mount it:

- 1. Delete the existing partitions:
 - 1. sudo fdisk /dev/mmcblk1
 - 2. p to list all partitions, then d and a number to delete all existing partitions, then w to write the changes.
- 2. Create a new partition:
 - 1. sudo fdisk /dev/mmcblk1
 - 2. n to create a new partition, then use all the defaults, then w to write the changes.
- 3. Format the partition: sudo mkfs.ext4 -L "emmc" /dev/mmcblk1p1
- 4. Create a mount point: sudo mkdir /emmc
- 5. Mount the disk: mount /dev/mmcblk1p1 /emmc

Further reading

- Mounting a Raspberry Pi's ext4 SD card on Ubuntu 14.04 inside VirtualBox on Mac OS X
- Mount a Raspberry Pi SD card on a Mac (read-only) with osxfuse and ext4fuse
- Orange Pi Plus Setup, Benchmarks, and Initial Impressions

orange pi	° emmc	format	· fdisk	partition	· mount	· linux	∘ debian

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Comments

sandip patil – 2 years ago

hello Jeff,

thanks for the blog. it's very usefull. I am tryied it & worked fine. now i am trying to install linux on orangepi emmc. i booted from sd card & tryied to dd Lubuntu.img to emmc. i am able to write image on emmc but its not booting. can you please tell me that, how can install linux on emmc & boot from it?

thnk you.

reply

AJ Porfirio – 2 years ago

thanks! worked!

reply

 ${\rm Manuel\ Medrano-2\ years\ ago}$

Hi Jeff I have an Orange Pi Pc Plus working (very nice) but I have installed on the EMMC Flash an android from youtube: https://www.youtube.com/watch?v=EZozLwynu4Q. The problem is I am not very good at Linux/Android and I'd like to be able to uninstall it in order tu use it for different proyects. I have written to the person who put it on youtube but I have not had any answer. I wonder if you would be so kind as to take a look at it and tell me how to do it - that is to uninstall it -

I thank you in advance (even if you don't answer) I understand that you may by a bussy person and me, an old 71 Y.O retired, trying to keep up with times hahaha.

Excuse if my English is not the best (this is not a translation) I lived in the UK for nine years but too long ago. I live now in my home

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town Seville - Spain.
Anyway thanks again and I godbless:
Manuel Medrano.
reply
strikerbest - 2 years ago
orangepi@OrangePI:~$ sudo mkfs.ext4 -L "emmc" /dev/mmcblk1p1
sudo: unable to resolve host OrangePI
mke2fs 1.42.12 (29-Aug-2014)
Discarding device blocks: done
Creating filesystem with 3816704 4k blocks and 954720 inodes
Filesystem UUID: caef44cd-42e1-4fcb-a4e3-7c369b567028
Superblock backups stored on blocks:
32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208
Allocating group tables: done
Writing inode tables: done
Creating journal (32768 blocks): done
Writing superblocks and filesystem accounting information: done
orangepi@OrangePI:~$ sudo mkdir /emmc
sudo: unable to resolve host OrangePI
mkdir: cannot create directory '/emmc': File exists
orangepi@OrangePI:~$ sudo mkdir /emmc
sudo: unable to resolve host OrangePI
mkdir: cannot create directory '/emmc': File exists
orangepi@OrangePI:~$ sudo mkdir/emmc
sudo: unable to resolve host OrangePI
sudo: mkdir/emmc: command not found
orangepi@OrangePI:~$ mount /dev/mmcblk1p1 /emmc
mount: only root can do that
Why?
<u>reply</u>
     Jeff Geerling – 2 years ago
     You need to run the mount command as sudo (so sudo mount...). Also, all those other errors (File exists and command
     not found ) are just saying that you already created the /emmc directory.
     <u>reply</u>
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