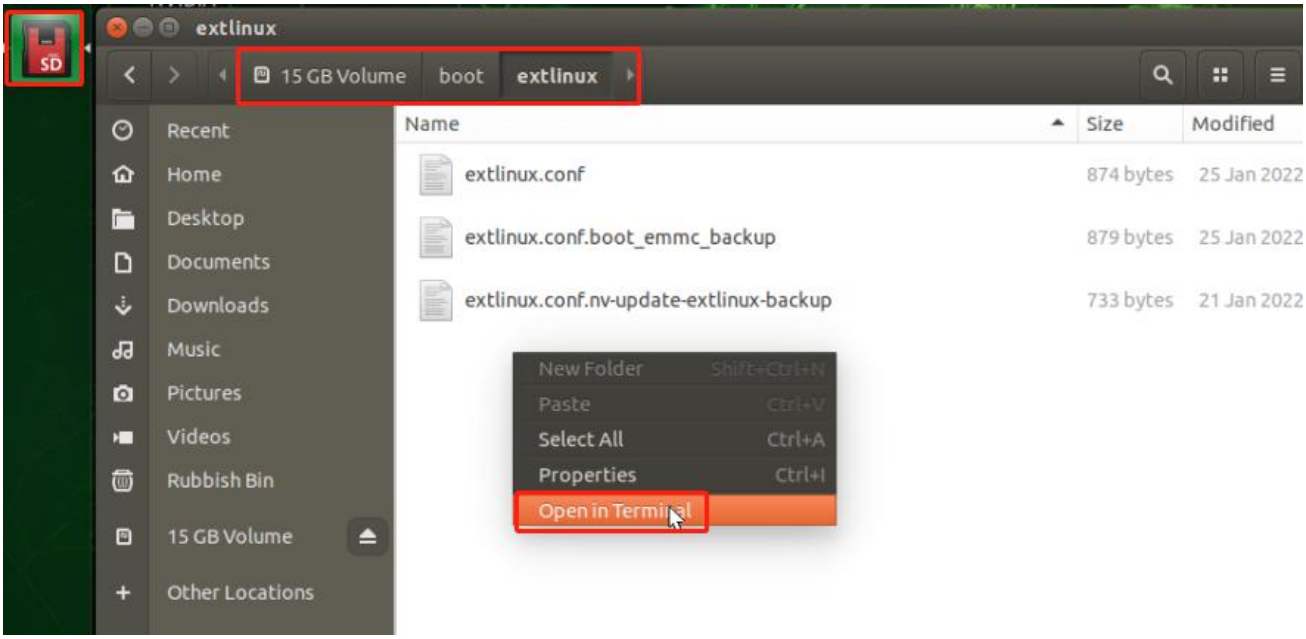
There are two cases for restoring EMMC startup.
Case1: The U disk system can be started normally
Case2: The U disk cannot be started, or there is no U disk.

1. Operation with U disk system start up

1.1 Boot the Jetson Nano into the system. Find the 15GB Volume (the volume of EMMC) in the startup bar on the left, and click to enter the “boot->extlinux” directory.



1.2 Right-click the blank space to open the terminal, and enter the following command to check whether it is currently in the EMMC partition.

df -h

Find the Mounted on mount point corresponding to /dev/mmcblk0p1 in the Filesystem column.
It is normal if it is consistent with the actual path.

1.3 Input the following command to open and modify the extlinux.conf file

sudo vim extlinux.conf

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sudo vim extlinux.conf

```
jetson@jetson-desktop:/boot/extlinux$ sudo vim extlinux.conf
jetson@jetson-desktop:/boot/extlinux$
```

Press i key to enter edit mode, find root=/dev/sda1 in the column of LABEL primary, and modify it to root=/dev/mmcblk0p1

```
TIMEOUT 30
DEFAULT primary

MENU TITLE L4T boot options

LABEL primary
      MENU LABEL primary kernel
      LINUX /boot/Image
      INITRD /boot/initrd
      APPEND ${cbootargs} quiet root=/dev/mmcblk0p1 rw rootwait rootfstype=ext4
console=ttyS0,115200n8 console=tty0 fbcon=map:0 net.ifnames=0 sdhci_tegra.en_boo
t_part_access=1

# When testing a custom kernel, it is recommended that you create a backup of
# the original kernel and add a new entry to this file so that the device can
# fallback to the original kernel. To do this:
#
# 1, Make a backup of the original kernel
#      sudo cp /boot/Image /boot/Image.backup
#
# 2, Copy your custom kernel into /boot/Image
#
# 3, Uncomment below menu setting lines for the original kernel
:wq
```

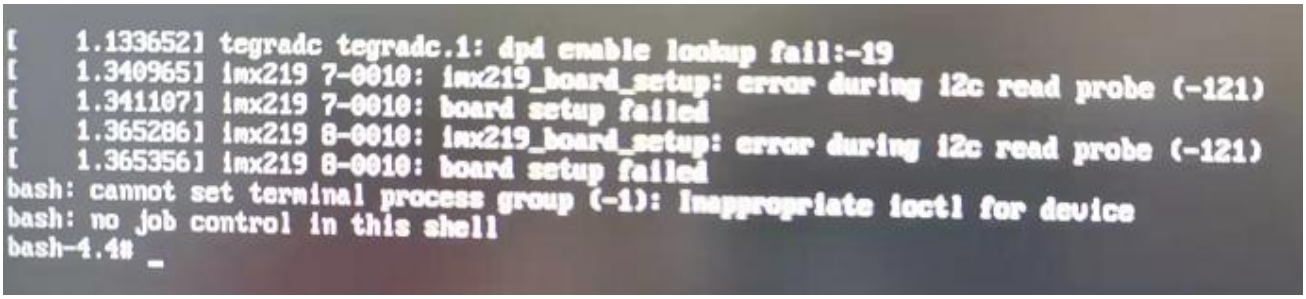
1.5 Exit and save. Press ESC to exit edit mode, then enter :wq and press Enter to save and exit.

1.6 After restarting the Jetson Nano, it will automatically boot from EMMC regardless of whether the U disk is inserted or not.

2. Operation without U disk

When we do not insert the U disk or the U disk system cannot be started, the system will fail to start directly and enter the bash interface.

At this point, we need to manually mount the system in EMMC and modify it to start the EMMC system.



1) mount/dev/mmcblk0p1 to/mnt

mount /dev/mmcblk0p1 /mnt

2) Restore the backup extlinux.conf.boot_emmc_backup to extlinux.confcd /mnt/boot/extlinux

cp extlinux.conf.boot_emmc_backup extlinux.conf

Turn off the power of Jetson Nano, restart it will automatically enter the EMMC system.