Linux VOM ISP
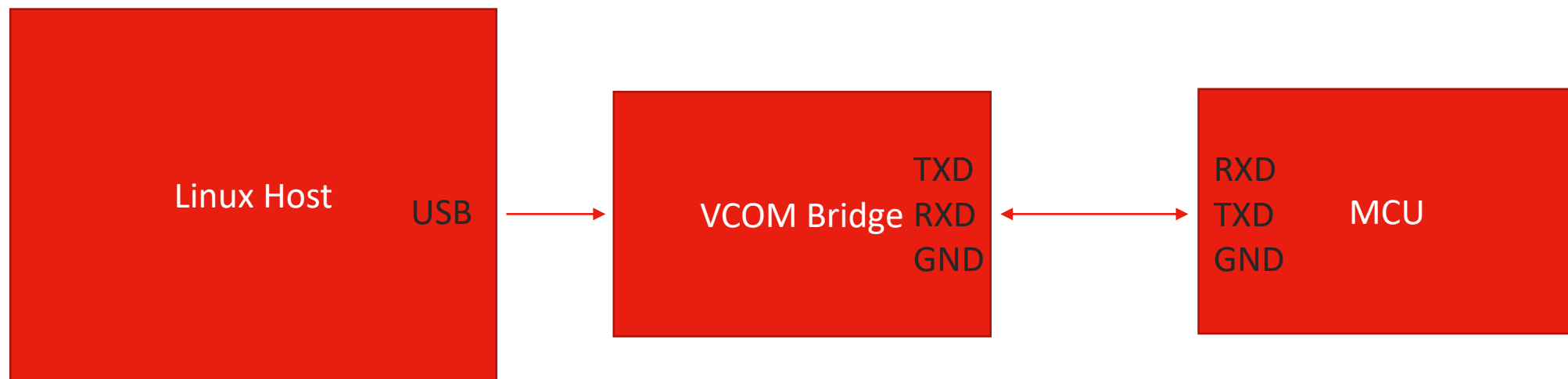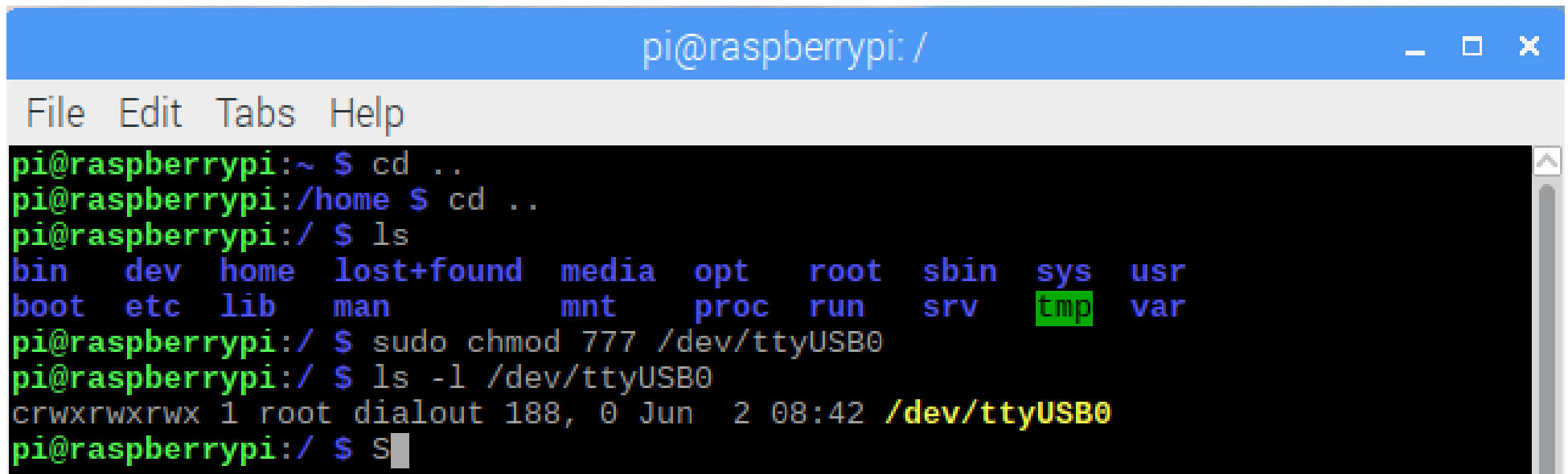
System Block

MCU FW

- Config boot from LDROM.
- LDROM code
  - \M031BSP-master\SampleCode\ISP\ISP_UART\KEIL

Modify Linux USB VCOM Permission

- sudo chmod 777 /dev/ttyUSB0

- Next, execute "make" command under \Linux_USB_ISP, and generate a debug folder after compiling.


```
pi@raspberrypi:~/LINUX_COM_ISP $ cd l
bash: cd: l: No such file or directory
pi@raspberrypi:~/LINUX_COM_ISP $ cd LINUX_COM_ISP/
pi@raspberrypi:~/LINUX_COM_ISP/LINUX_COM_ISP $ ls
Debug                                   LINUX_COM_ISP-Release.vgdbsettings
debug.mak                               LINUX_COM_ISP.vcxproj
gcc_Debug.h                             LINUX_COM_ISP.vcxproj.filters
gcc_Release.h                           LINUX_COM_ISP.vcxproj.user
LINUX_COM_ISP.c                         Makefile
LINUX_COM_ISP-Debug.vgdbsettings        Makefile.old
LINUX_COM_ISP-Debug.vgdbsettings.JCLiu.user  release.mak
pi@raspberrypi:~/LINUX_COM_ISP/LINUX_COM_ISP $ make
make: Warning: File 'debug.mak' has modification time 23710 s in the future
gcc -ggdb -ffunction-sections -O0    -DDEBUG=1   -c LINUX_COM_ISP.c -o Debug/LINUX
_COM_ISP.o -MD -MF Debug/LINUX_COM_ISP.dep
g++ -o Debug/LINUX_COM_ISP -Wl,-gc-sections    -Wl,--start-group Debug/LINUX_COM
_ISP.o    -Wl,--rpath='$ORIGIN'    -Wl,--end-group
make: warning:  Clock skew detected.  Your build may be incomplete.
pi@raspberrypi:~/LINUX_COM_ISP/LINUX_COM_ISP $ cd debug
bash: cd: debug: No such file or directory
pi@raspberrypi:~/LINUX_COM_ISP/LINUX_COM_ISP $ cd Debug/
pi@raspberrypi:~/LINUX_COM_ISP/LINUX_COM_ISP/Debug $ ls
LINUX_COM_ISP  LINUX_COM_ISP.dep  LINUX_COM_ISP.o
pi@raspberrypi:~/LINUX_COM_ISP/LINUX_COM_ISP/Debug $
```

- Please execute under \Linux_COM_ISP\debug
- "./Linux_COM_ISP /dev/ttyUSB0 /home/pi/aprom.bin"
- Plug Target Chip run the LDROM isp code.

pi@raspberrypi: ~/LINUX_COM_ISP/LINUX_COM_ISP/Debug

File Edit Tabs Help

```
pi@raspberrypi:~ $ cd c:\
>
bash: cd: c:: No such file or directory
pi@raspberrypi:~ $
pi@raspberrypi:~ $ cd LINUX_COM_ISP/
pi@raspberrypi:~/LINUX_COM_ISP $ cd LINUX_COM_ISP/Debug/
pi@raspberrypi:~/LINUX_COM_ISP/LINUX_COM_ISP/Debug $ ls
LINUX_COM_ISP  LINUX_COM_ISP.dep  LINUX_COM_ISP.o
pi@raspberrypi:~/LINUX_COM_ISP/LINUX_COM_ISP/Debug $ ./LINUX_COM_ISP /dev/ttyUSB
0 /home/pi/aprom.bin
fcntl = 0
isatty success!
fd = 3
the com port open!!
package: 0x1002
package: 0x1003
package: 0x1004
```