Week 5

openwifi

https://github.com/open-sdr/openwifi

Supported SDR platforms: (Check Porting guide for your new board if it isn't in the list)

board_name	board combination	status	SD card img	Vivado license
zc706_fmcs2	Xilinx ZC706 board + FMCOMMS2/3/4	Done	32bit img	Need
zed_fmcs2	Xilinx zed board + FMCOMMS2/3/4	Done	32bit img	**NO** need

sdr platform chosen for the project: zed_fmcs2, with board combination Xinlinx ZC706 + FMCOMMS2/3/4.

1. Restore the img file into a SD card;
2. Confog the corresponding file in the BOOT partition;
3. 2 antennas are connected to RXA/TXA port on FMC radio board;
4. Config the board to SD card boot mode ;
5. Connect the zedboard with PC usinga ethernet cable;
6. Change the IP address of the PC used to connect the zedboard
7. Login to the board from PC

```
ssh root@192.168.10.122
```

However, the above step is not successfully completed, since the authencication of 'PermitRootLogin' is negative. The following operations refer the following link,

> 'How to allow the root user to log in to Linux using SSH'
> https://blog.csdn.net/allway2/article/details/108815503

It can be checked using cmd

```
grep -i "rootlogin" /etc/ssh/sshd_config
```

If there is a hash # before PermitRootLogin, this means you should edit the corresponding file using cmd

```
vim /etc/ssh/sshd_config
```

Notice: for Linux users, you can comfirm the changes by restart the ssh server using cmd

```
sudo /etc/init.d/ssh restart
```

however, for Mac user, you should use the following cmd to operate as an administrator.

```
sudo su vim /etc/ssh/sshd_config
```

The configuration after modification is as follows: