# Start-up after power cut/pc reboot

1) First figure out the ethernet address of the FC7
```
sudo tshark –i eth1
```
2) Add ethernet address to /etc/hosts
```
sudo vim /etc/hosts
```
3) Restart RARP daemon
```
sudo /etc/init.d/rarpd restart
```
4) ping fc7

```
sudo /etc/init.d/rarpd start
sudo /etc/init.d/controlhub start
sudo a
```

aa:bb:cc:dd:ee:50 icfc7
08:00:30:00:23:72 icfc7


1) check that SD card is plugged in and that FC7 is in desktop mode and that FMC is in FMC_L8 for K.FW
2) sudo /etc/init.d/rarpd restart //start rarp deamon for fc7 ip address assignment
3) sudo /etc/init.d/iptables stop //disable firewall for monitoring webpage
4) open /etc/ethers with sudo privileges and editor of choice ;-)
5) uncomment the line starting with the 08:… mac address and comment the one with aa:bb:…
6) ping icfc7 to see if you have connection with the correct mac address (arp -e might also work)
7) cd Ph2_ACF
8) source setup.sh
9) fpgaconfig -c settings/Cbc3HWDescription.xml -l to list the FW images on the SD card
10) fpgaconfig -c settings/Cbc3HWDescription.xml -i CBC3TESTV6.bin to load the correct FW image (this will make the mac address change from 08:… to aa:bb:..
11) back to /etc/ethers and undo the changes of step 4)
12) arp -e to see that the icfc7 host shows the correct aa:bb:… MAC address
13) ping icfc7 to see if it responds correctly
14) ll /dev to see if symlinks for ArduinoNano and HMP4040 exist
15) most probably the HMP is not going to be there: in that case cd ~/Ph2_USBInstDriver/, sudo ./init_serial.sh, sudo ./init_usbtmc.sh
16) check in /dev if you have the symlinks and that the usbtmcX device files exist
17) in case of problems unplug HMP4040 usb cable and retry 14)

```
31.07.2017 10:58 |III  Configuring HW parsed from .xml file:
31.07.2017 10:59 |III  FW version : 2.6.1
31.07.2017 10:59 |III  BoardType : CBC3
31.07.2017 10:59 |IEI  Error: I2C Bus FSM did not go to ready!
31.07.2017 10:59 |III  Error, did not receive the correct number of *Pings*; expected: 1, received: 1 - or I2C FSM did not go to ready!
31.07.2017 10:59 |III  Successfully configured Board 0
31.07.2017 10:59 |III  Successfully configured Cbc 0
```

I2C FSM not responding …. fix?
          looks like I had not changed the mac address of the fc7 back to aa:…..
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I2C FSM not responding .... fix?

      looks like I had not changed the mac address of the fc7 back to aa:.....

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loading new firmware onto SD card