NOTE: This guide is for accessing the raspberry pi using a MAC. The IP addresses, hostnames, and passwords can be used as a starting block to access the pi using a Windows computer.

**SSH into pis**

1. Open Terminal
2. Two ways to access (Use Table 1)
    a. Ethernet Adapter
        i. Type "ssh pi@IP Address of the pi"
    b. Micro USB
        i. Type "ssh pi@Hostname.local"
3. Enter password from table 1

| | IP Address | Hostname | Password |
|---|---|---|---|
| **B0** | 192.168.1.100 | HABIP-B0 | raspberry |
| **B1** | 192.168.1.110 | HABIP-B1 | raspberry |
| **B2** | 192.168.1.120 | HABIP-B2 | raspberry |
| **B3** | 192.168.1.130 | HABIP-B3 | raspberry |
| **DTV** | 192.168.1.15 | HABIP-DTV | splintercell |
| **Comms** | Non-Static | raspberrypi | raspberry |

Table 1 – Raspberry Pi Information

**Working on DACQs pis (B0-B3)**

1. End the data acquisition python scripts
    a. Once in the pi type "cd habip"
        i. This will get you into the habip folder
    b. Type "ps –aux | grep python"
        i. This will show all python scripts that are running
    c. Type "sudo -9 kill <PIDs>
        i. The previous command will show the PID (Process ID #) of the python scripts.
        ii. You can kill multiple scripts by adding a space between their PID#
    d. Rather quickly type "python wdt_pet.py"
        i. This will activate the script that "pets" the watchdog to keep the pi from resetting.
            1. The pi resets whenever the i2c data logging script is not running.
    e. You must open another instance/shell for this pi to work on it since the wdt_pet.py script needs to stay running in order to keep from resetting the pi.

**Deleting Data from the DACQs pi**

1. Once in the pi go to habip folder by typing "cd habip"
2. Type "bash remove_all_data.sh"
    a. This will remove all the logs, photos, videos, and data from the pi
3. The pi is now ready for flight/testing

**Retrieving data from the pis**

I used SCP but with dome searching you can probably find other methods. Just use whatever works best for you.

**Script Location on the pis**

**NOTE:** Use /home/pi before any of these paths using SCP or any path designation in scripts

**DACQs pis**

**Photo and Video Logging** - /habip/photo_video_sw/

The script (log_photo_video.py) and the photos, videos, and logs folders for photo and video logging can be found in this folder.

**UART Monitor** - /habip/uart_monitor/

**Data Logging** - /habip/sensors_sw/

Both the i2c sensors and the wire1 data folders can be found here. The i2c and wire both have there own script.

**DTV pi**

All the scripts are in the location /ts_tools/

The script that controls the BladeRF is "BladeRF.py", the script for switching between the camera feeds is "Switching.py", and the script for testing one individual Pi for DTV is "PiServer.py".

**Comms pi**

Trying to figure this pi out was a nightmare. There was no clear organization of this pi, its folders, and its scripts. I would recommend rewriting and reorganizing this pi if this same system will be kept in the future.