

DAQ @ Station Computers

- **SPEC Directory:** `/mnt/currentdaq/folder`
 - Folder: `PIName-BTRID-CycleNum`
 - Ex: `miller-298-1`

```
1641.XES> ad_setup\  
Detector EPICS PV prefix (PIL4)? PIL1  
Remote path for images (/home/det/data/KDF_072015)? /mnt/currentdaq/  
Next Snapshot Number (503)? 0  
1642.cont>  
  
1642.XES> pwd  
/home/specuser  
  
1643.XES> cd /mnt/currentdaq/  
Now in "/samba/chessdaq/daq/current/c1".  
  
1644.XES> █
```


DAQ @ Detector Computer (ctd.)

- `DET:cam1:FilePath = /mnt/currentdaq/folder`

The screenshot displays the 'Pilatus Detector Control - PIL7:cam1' software interface. The interface is divided into several panels:

- Setup:** Shows connection details for the detector, including 'asyn port PIL', 'EPICS name PIL7:cam1', 'Manufacturer Dectris', and 'Model Pilatus'. It indicates the detector is 'Connected' and provides 'Connect' and 'Disconnect' buttons.
- Shutter:** Controls the detector's shutter. It shows 'Shutter mode' as 'EPICS PV', 'Status: Det.' as 'Closed', and 'EPICS' as 'Closed'. There are 'Open' and 'Close' buttons, along with 'Delay: Open' and 'Close' fields set to 0.000. An 'EPICS shutter setup' button is also present.
- Collect:** Configures data acquisition parameters. It includes 'Exposure time' (0.250), 'Acquire period' (0.270), '# Images' (3075), 'Delay time' (0.001000), and '# Exp./image' (1). The 'Trigger mode' is set to 'Mult. Trigger'. 'Acquire' buttons for 'Start' and 'Stop' are shown, along with 'Armed' and 'Unarmed' status indicators. 'Image counter' is 0 and 'Image rate' is 0.0. 'Array callbacks' are set to 'Enable'.
- Status:** Displays the current status of the detector, showing 'Status: Camserver returned OK', 'To camserver: Tau', and 'From camserver: 15 OK Rate correction is off, cutoff = 1048574 counts'.
- Data corrections:** Configures data correction parameters. It includes 'Bad pixel file', '# Bad pixels' (0), 'Flat field file', 'Flat field valid' (No), and 'Min. flat field' (100).
- File:** Configures the output file path and name. The 'File' field is set to '/mnt/currentdaq/test-1/' and 'Exists' is 'Yes'. The 'File path' is '/mnt/currentdaq/test-1-1'. The 'File name' is 'test_img', 'Next file #' is 1, 'Auto increment' is 'Yes', and 'Filename format' is '%s%s_%04d.tiff'. The 'File format' is 'TIFF'.
- Attributes:** A section for additional file attributes, currently showing 'File' with a file icon.
- Plugins:** A section for managing plugins, with buttons for 'All', 'File', 'ROI', 'Stats', and 'Other'.
- Detector:** Shows detector characteristics and settings. 'Detector Size' is 487 x 195. 'Threshold (keV)' is 5.000. 'Threshold apply' is 'Yes'. 'Shaping time/Gain' is '5-18KeV/Med/MedG'. 'Pixel cutoff' is 1048574. 'Read file timeout' is 30.000. 'Gap fill' is 'N.A.'. 'Temperature' and 'Humidity' are all 0.0. 'TVX version' is 'Unknown'.

Transferring Data @ Station

- Locally:
 - Plug in USB Drive
 - Copy folder from /mnt/currentdaq/<userdata> to USB drive with Command Line or File Browser.

Transferring Data @ OPS

Kiosk

- Plug in USB drive or insert HDD into dock
- Access DAQ via CHESS_RAW
- Navigate to appropriate Beamline and User folder

OPS-NT or Other Computer

- Plug in USB Drive
- Start SFTP client
 - Ex: SSH Secure File Transfer
- Use Right Pane to navigate to /mnt/currentdaq/ and drag appropriate folder to Left Pane

