

## After you first login

1. In a unix (xterm) window type "dataserver" and minimize it
2. in another xterm window, type "galilserver" and minimize it
3. In yet another, type "fw-gui" and minimize it. The gui comes up saying "filter in beam", all you need to do is to hit "unload" (This begs the question of the possibility of a filter in the beam and the wheel rotated. we supposedly have safeguards)

## Then:

1. Click on "READ FILTERS" -> this spins the wheel twice to read and verify filter codes (don't ask why. and i THINK it's still true that there must be 6 good filter codes, ie, 6 filters in the wheel)
2. Click INITIALIZE -> this spins the wheel once more (again, don't ask why)
3. Select a filter with radio button. click SELECT and it spins the filter wheel
4. Put filter in by clicking LOAD
5. To change filters:
  - UNLOAD
  - SELECT
  - LOAD

FOCUS button moves focus that number of stepper motor steps. Stepper motor steps are what you enter into focus routine in CCD GUI.

NOMINAL PLANE sets differences between focus actuators ABC to stored, magically derived, values.

SET REFERENCE- stores best focus once you've derived it

RESTORE FOCUS- sets ABC to what's stored by SET REFERENCE

POPULATE and POPULATE DONE are for physically installing filters (done by day crew)

So a normal sequence is:

1. Load a filter
2. NOMINAL PLANE
3. Run Focus sequence on CCD computer
4. Set best focus and SET REFERENCE
5. Observe
6. Restore focus
7. Observe
8. Restore focus

The telescope control software needs to be running for things like ra/dec to be in header.

The operator has to start things on his computer for guider actions.

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