SpeX Observer's Crib Sheet (v. Aug. 2014)

Start-up

- Ask your operator for the daily VNC password.

- Start your VNC client, and bring up Stefan.ifa.hawaii.edu:1 (bigdog) and :2 (guidedog). – Enter your program number, then log in using the password from your proposal.

Bigdog



choose the appropriate macro, then execute the macro by hitting the 'execute' button.

- Gain = 1.5 e-/DN

Guidedog

- Keep counts below 4000 DN for photometry. Slight saturation is okay for guiding.

- Plate scale: 0.12 arcsec per pixel
- Field of view: 60 arcseconds across
- When guiding, we usually set autosave to off.

- Click "auto guidebox set up" to set up guider boxes.

- If you have moved the image rotator, click on "auto guidebox set up" again. Clicking this also tells the TCS if you have changed the rotator angle. If you don't click on this, then the telescope won't know the new slit orientation, and the star will nod off of the slit.

DV

- Click on the title bar or the number of the display to make it the active display (the active display has a yellow title bar)

- <u>To draw a line</u>: first click and hold the middle mouse button, then press shift, then drag the



3ig Dog XUI v2014.07 (lul 31 2014) (on bigd

cursor (you may need to hold down shift then click the middle mouse button) -<u>To make a small offset</u>: Draw a line in DV from where your target is to where you want it to go. Click on the TCS offset tab in DV (towards the bottom of the window), then click "offset telescope" *or* click the guide paddle in tc3remote to make offsets.

- <u>To draw a box</u>: click and hold middle mouse button only, then drag the cursor.

- <u>To do a line cut</u>:

1) Draw a line across the image where you want the cut (Example: buffer A is in display 0)

2) Set another display to that data buffer (Example: point display 3 to buffer A)

3) In that other display (in this example, display #3), set the display type to X Line Cut

4) Click "set endpoints from line". To fit with a gaussian and get a FWHM estimate, click on "gaussian fit".

Focusing:

- Ask the operator to run the autofocus sequence.

- Make small focus adjustments using the focus offset buttons in the t3remote window,

~0.02 focus units at a time.

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Mode	CalMir	Dichroic	OS Filter	Rotator	Slit	Grat
Prism	Off/out	open	open	parallactic	any	prism
guider=guidedog						
Prism	Off/out	0.8	open	parallactic	any	prism
guider=MORIS						
Short Cross	Off/out	open	open	parallactic	any	ShortXD
Dispersed,						
guider=guidedog						
Short Cross	Off/out	0.8	open	parallactic	any	ShortXD
Dispersed,						
guider=MORIS						

Common Observing Modes

Starcat

<u>To start starcat</u>:

1) Go to or open an xterm.

2) cd to your guest account directory where you have your starcat file.

3) type "starcat" or "starcat &".

<u>Load user target list</u>

1) Click on the "userlist" tab towards the bottom of the GUI.

2) Enter the path and file name of your target list.

To send a target to the TCS:

1) Click on the target to highlight it in blue.

2) Click on the "Send to TCS" button.

T3remote (TCS display)

- To start a t3remote window, click on t3remote button on desktop

- "Next" tab can be used to enter coordinates to send to TCS.

Shut-down

- Set Lamp/Mirror to off/in
- Set order sorting filter to blank
- Click "Log Out" in upper right corner of GUIs