DV Cheat Sheet

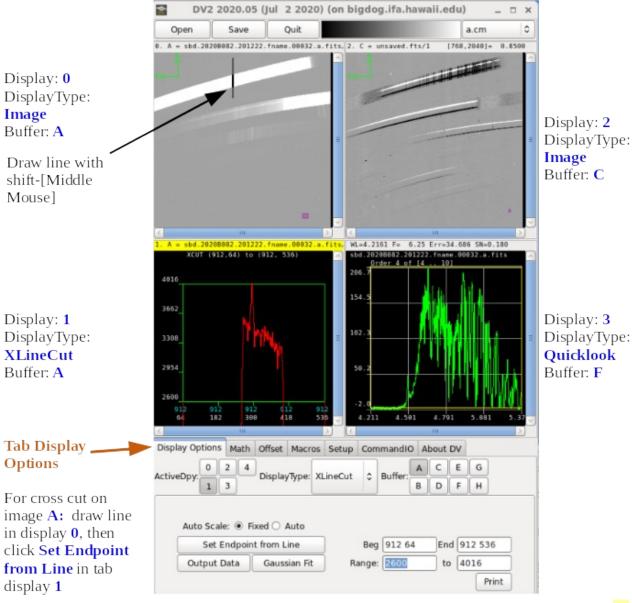
1. Setup:

- Erase previous observer settings: before logging in to XUI, check Reset DV on login
- A commonly used setup (see Figure) is selected in the **Display Options tab** as follows:
 - ActiveDpy 0, DisplayType Image, Buffer A
 - ActiveDpy 1: DisplayType XLineCut, Buffer A
 - ActiveDpy 2: DisplayType Image, Buffer C
 - *ActiveDpy* **3**, choose one of:
 - DisplayType QuickLook, Buffer F: flux or S/N spectrum latest extracted A-B pair (S/N is per pixel, A-nod only).
 - *Buffer* **G** is for all A-B pairs combined.
 - *DisplayType* Pointer, *Buffer* C: S/N based on photon count (per resolution element, A+B nod)
 - *Buffer* **D** is for all A-B pairs combined.

2. Mouse actions:

- Draw a line: shift-[Middle Mouse Button]
- Draw a box: [Middle Mouse Button]
- Move box: [Left Mouse Button]
- Change color scale: [Right Mouse Button]
- 3. Zooming and scaling on **Display Options tab**:
 - zoom in: draw box → click Box Zoom
 - zoom out: click Full Image
- 4. Make cross cut of, e.g., nod **A**, using **Display Options tab**:
 - ActiveDpy **0**: DisplayType **Image**, Buffer **A**
 - *ActiveDpy* **0**: draw line with shift-[Middle Mouse Button]
 - ActiveDpy 1: DisplayType XLineCut, Buffer A
 - ActiveDpy 1: click Set Endpoint From Line
 - determine image quality: click **Gaussian Fit** (*ActiveDpy* **1**)
- 5. Move telescope using guider (Guidedog, Kyle, MORIS) images using Offset tab:
 - draw line on image with shift-[Middle Mouse Button]
 - click Offset Telescope
- 6. Estimate broad-band magnitude using guider (Guidedog, Kyle, MORIS) images, on **A** nod, using **Display Options tab**:
 - ActiveDpy 0: DisplayType Image, Buffer A

- *ActiveDpy* **0**: draw small box next to star with [Middle Mouse Button]
- ActiveDpy 1: DisplayType Stats, Buffer A
- ActiveDpy 1: click Set Sky
- *ActiveDpy* **0**: move box on top of star with [Left Mouse Button]
- ActiveDpy 1: read broad-band magnitude in display



DV is highly configurable. This shows a common set-up. In this example, Display 1 is active, as indicated by the yellow bar, and the darker ActiveDpy button.