

Focus Sequence

Use *Run Focus* in the AzCam window to make a focus exposure sequence.

A new instrument command has been added to move the focus actuators to specific LVDT values. Type, for example,

```
instrument.SetActuators(0.874,0.825,0.795)
```

to move the actuators (A,B,C) to the positions indicated.

Misc Focus Info

- The image header has a line like: FOCUSVAL= '*0.756*0.795*0.815' / Focus
- These are LVDT (encoder) values corresponding to '*LVDT_A*LVDT_B*LVDT_C'
- One focus actuator step is 2.645 microns, which corresponds to -0.0005 LVDT units. So the conversion is (-1322.5 um/LVDT unit).
- Note the zero point for the LVDT scale is arbitrary and only relative motion should be considered. So for example, 0.756 above for LVDT_A is a position of $(0.754 * -1322.5) = -997.2$ microns.
- Note the direction sign is reversed between actuator movement and the LVDT readout.

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