Last Updated: 03/15/2019

Message From Peter Milne

I suggest that you have two pages viewable in your browser, this mtnops page and the status page. For a remote person (like me), I can see from the webcam and the status variables whether things are working. For a local person, the webcam saves walking into the dome (unless you enjoy that little bit of limbo).

mtnops page: http://slotis.kpno.noao.edu/LOTIS/tr/mtnops_test.html

SL status page: http://slotis.kpno.noao.edu/LOTIS/status.php

This DOES NOT have the camera take images. It powers the camera, but no images. The reason for this is that eddy controls the camera, and at this point I need to figure out the way to run that from a script on slotis.

Also, discussions are underway to set-up an override so the roof can be opened a bit during the daytime. The script above only opens for 10 seconds and then sends a stop, followed a minute later by a close....and it might only work when the boltwood script is disabled.

SuperLOTIS Checkout

1. Log into `slotis.kpno.noao.edu` (password in SuperLOTIS binder)
2. Log on as superuser by typing `su` (password in SuperLOTIS binder)
3. Type `pete` (changes directory to /home/slotis/pete_auto)
4. Open a browser, go to http://slotis.kpno.noao.edu/LOTIS/status.php (bookmarked)
    1. The TCS block should be updating the local time and the TCS values should make sense.
    2. Look for UT or LST values that make no sense.
    3. The Weather Status should be regularly updating. The roof should show Closed and the Precip should show Not Raining.
    4. The System Temperatures should make sense. (*Note, system temperatures might depend on camera initialization*)
    5. Check the Vacuum and Focus to make sure they do not show red (meaning out of bounds readings)
    6. The Camera Status value that is important is Camera Power, as the others do not update until the camera software runs its start-up (which is not part of this testing)
5. Type `./mtnops_testing`
6. That script will do the following in order:
    1. Flash the domelight on and off a few times (as a warning and tests commands)
    2. power the mount and camera and chiller
    3. Send movement commands (zenith, south ELAZ (30,180), west ELAZ (45,270), stow)
    4. Partially open roof, pause and then close roof
    5. Power down and kill scripts that were running

7. Watch the webpage as these commands are executed. If onsite, you will hear some of these commands execute:
    1. The domelight should be obvious in the webcam as it turns on and off.
    2. The webpage should then show the MOUNT and CAMERA go from OFF to ON.
    3. The telescope should been seen to move to the positions in the webcam and the TCS values should display those moves.
    4. The telescope should return to stow.
    5. The roof should be seen to open slightly in the webcam. Then stop. Then close.
    6. The MOUNT and CAMERA power should turn off.

SuperLOTIS is good to go ~~(like a crunchwrap supreme)~~

Additional Notes

Helpful commands when in superuser

- `psperl`
    - Displays all perl scripts running
- `atq`
    - See all commands sent

The checkout script does not provide much feedback, and Peter is currently working on improving that. However, for your knowledge, it may take a couple minutes to run through all the commands even though the checkout script reports it is done. Be patient and check the current commands sent.

The roof will not open during the day, and Scott is currently working on a bypass for checking out SuperLOTIS. The roof opening script will fail.