



LOCUS Monthly Meeting

February, 2019

Agenda

- A variety of things are in progress, all of which impact the LOCUS project. We continue to learn about the MicroServices architecture and are prototyping pieces of the LOCUS system to gain better insight into this proposed architecture.
- I am working with Len on the All-Sky Camera Software project.
 - I am building some simulators for prototyping LoCam-LoFits communication. This is a priority because we will be implementing a LoFits type of interface for All-Sky. These simulators will communicate using the ActiveMQ Broker on Jumar.
 - I am researching the INDI Driver-Server-Client protocols and PyIndi-Client. For this I've set up an Ubuntu 16.04 Linux machine (an old Mac Mini) and have the INDI server running currently connected to a webcam (logitech C270 from IT).
- I am working with Ted and Mike on understanding the DSP code used in the ARC controllers.
 - I'm putting together a testing program to be used as we modify the DSP code. For this application, I'm trying out some ideas about scripting which will eventually be applied to the LOCUS scripting problem. The scripts will be python scripts but the python command line interpreter will also be used for direct commands to the controller. For this, a small library will be built.
- We are also doing some investigation into all of the information available via the message broker at the DCT to see if the information needed to populate the FITS headers for the All-Sky images is already available on the broker. A prototype metadata aggregator may be built to test another set of communication protocols.