ZWURM, 18-05-2020 14:00 (WURM through Zoom because of #COVID19 house quarantaine/wk11)

Present eBob, Mark, Paul, Ilse, Des, Aard, Harro

eBob: Root cause of archiving failure is two competing scripts; cron job deletes all files older than 0.3 days from staging area, so if copying takes > 0.3 days #FAIL. Fixed for now. [Side discussion: point of staging area? Data must be moved to destination and (re)organized, owner changed, w/o supp sci involvement. Idea: if a script does this it can be automated and done w/o staging area? Will discuss in future] Worked on pySCHED plotting issues reported by Marcote and Boven; new version(s) released last week and today; pySCHED version number now in ouput. Hope to be able to work on runjob start recording/correlating timing issue this week.

Paul: Discussion with Hamburgnet re. LTO8, it's delayed. Still working on IEEE paper review. The VLA proposal was declined. FlexBuff7 had entered into a state with no memory available at all; no ssh possible, not even through IPMI. Powercycle fixed symptoms. Issue of memory leak unclear (graph indicates something happened on/ around May 20th 2020). On + Ef lightpaths migrated to 100 Gbps link; On 100% success, Ef 100% FAIL. Graphs/counters indicate Ef traffic arrives at JIVE switch but not FlexBuff. The cluster twins cl0/cl1 are running out of disk space, meaning that db0 disk space might not be able to expanded easily. glusterfs running on the twins (still) has a memory leak.

Ilse: Lot of work on EAS special programme — new abstracts as well as miscommunication to Ilse (not the authors) about some authors wether they're oral or poster. The notebook verification has progressed; tasks now better understood and results become more predictable. More helpdesk ticket, on fringe fit not working. User did not comprehend somewhat confusing output. Refant not available at start of scan (slewing) seems to be unfavourable for the fringe fitter. Will contact supp sci how this is dealt with in AIPS. Had an informal meeting with NOVA ISC about what the ISC is and does, was illustrative. Next ISC meeting ~ October 2020. CWL tutorial now starting to run on new computer. [Side discussion: what use will CWL be? Valid question, will have to evaluate against ESCAPE goals]

Aard: eee-dev was seriously broken: no new containers, no login. Sipior fixed some things but still not usable for everyone apparently. Telecon with JackR and ZsoltP about primary beam measurements. In the experiment too much variation (10-20%) between scans so not usable. Won't wait for EVN TOG to provide single-dish primary beam measurements but propose a dedicated experiment using a spectral line source because source strength might play a role. Working on the archive plugin for Jupyterlab; it is written in TypeScript (a superset of javascript), learning it.

Mark: Fallout of removal of fftpack; CASA6 was built w/o fftw due to typo (informed NRAO). Inspected diff between fftpack cosine transform and AndreO's fftw3 based version, found to be order 10^-7,

which is expected: single precision float roundoff errors of different implementations of same algorithm. The test to verify swapped-baseline-but-not-polarization fix was accepted and is now merged. Further work on gaincurves and CASA requirements document; need to clarify some texts. Got priorities from JIVE staff but differences of opinion remain: within JIVE scientists support for carrying over INTENT to MS is low priority but for streamlining JIVE operations/ESCAPE pipeline processing it is necessary.

Des: Managed to convince OlgaB to claim verification of dispersive fringe fit not breaking existing algorithm. There is some XML left to do. Papers database found 80 papers by searching for EVN project code, brute force "EVN" search yielded ~200 (verified agains manually compiled list for annual reports). [Side discussion: what next? Obvious that after-the-fact linking of data to publications is really hard. Need to focus on future: give all entries in the EVN archive a DOI; the software will have DOI so if the notebooks that go with the data have DOI too we have provenance. Des will investigate DOI/DOI provider]