

ZWURM, 19-10-2020 14:00 (ZWURM through Zoom because of #COVID19 house quarantine/wk32)

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

Aard: investigated operator report "It does not work": turns out Ar hack to deal with very large clock offset between polarisations caused sfxc to hang on some scans who had their boundaries not adapted for this time correction. Fixed, the exp was done, and was also the last Ar exp with this property. Ongoing investigation of sfxc hangs with subint/sliced integrations: plot thickens, multiple locations where things are wrong, reminiscent of out-of-array-bounds. CI/CD on IN2P3 gitlab not broken - need addition of config YAML file (not documented); now works. Q[JasonH]: have data outside scans with FRB in? A: nope, deleted two weeks ago (scans w/ FRB are backed up though).

Des: CASA solution interval overlap fix /seems/ to work, if TRUE ask GeorgeM since code is not kosher - issues with internal List class, causing double delete. MichaelJ's OoM error confirmed, indicates memory leak but at loss how to find in large Python+C++ tool (GNU Scientific Library was tested and found to not cause the leak). Working with Ilse & Paul on Mattermost batch-import and lecture for the workshop.

Paul: Used old eee disk to replace failed disk in sfxc-g2. Installed/upgraded Mark5#13 (ex-loan to Torun) so now useable (finally). New optics for ASTRON 100 Gbps will arrive Tue; hope to be able to progress this project and finish before year. Quote for the V0 server arrived, negotiating better details. Also helping Ilse & Des w/ Mattermost batch import; Mattermost server requires update, suggest Fri after COB to minimize impact.

eBob: pySCHED bugreport - latest matplotlib changed API for dateplotting (internal epoch changed) (fixed) and some more API changes (also fixed); noticed that "formlayout" package (a dependency) API has changed. Checked if "vlbeer" change of IP address would impact (no); related to this, assessing impact of moving to scp/sftp as ftp alternatives as well as potential directory structure changes. SessionIII started -> e-shipping started; fb#13 having issues (permission denied on file write).

Mark: ParselTongue Py3 packages for Fedora, SuSE, Ubuntu; CormacR, AdamD, PaulB got instructions on how to test (PaulB feedback: seems ok so far). Continued investigating recording provenance of docker containers: 3yr old software already broken/defunct due to docker changes - may be able to steal ideas from the software. Two CASA tickets: parallactic angle correction on lin pol data w/o crosspols fails [A: it should, can't do that cal w/o crosspols]; VLBA pulsar data not imported by CASA importfits. ESCAPE WP3 telecon - format discussion about tech presentations (off the hook for two weeks more). Will continue investigating provenance and effect of adding conjugate u,v points to u,v coverage on ellipticity and fill factor values.

Ilse: Zoom for CASA workshop: room capacity = 300, breakout rooms tested - everything seems in place; created local wiki page for the conference, run into upload limit. Docker X11 forwarding broken (worked once) - [Aard: run notebook with xvfb-run <program>]. Attended EHT meeting about gains in imaging. Worked on AIPS/CASA pipeline automated comparison script: idea = load data into Python (ParselTongue for AIPS, python-casacore for CASA) but flagging is different between formats so cannot compare 1:1 [Mark: apply cal in AIPS, export to UVFITS, import into CASA = can compare]. CASA User Committee meeting this week. Checking/verifying Jun's data completed - data now compare well; seems that RFI + bad Tsys + difference in flagging/strict check in CASA result in less data used for image in CASA; learned a lot by in-depth investigation.

Harro: will have Persistent Identifier meeting with ASTRON this week. Created initial versions of Py2/Py3 compatible scripts in jive5ab and vlbish.