ZWURM, 29-03-2021 14:00 (ZWURM through Zoom because of #COVID19 house quarantaine/wk55)

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

General: The EVN symposium was announced, registration is free, and it's only in July, but it's coming. Deadline for EVN Newsletter contributions is ~two weeks from now.

Paul: poweroutage fall-out still limited to one Mark5; flexbuff boot procedure remains issue. Setup of evn-monitor.jive.[eu/nl] progressing. Installed new SFP+ in fb9, seems to have fixed network problems. WR tests can now be done from home thanks to variable optical dimmer. PhD promotion commission session coming, need to spend time on that.

Ilse: Attended LOFAR VO school, was modelled after CASA workshop — i.e. DIY; use ESCAPE VO school materials to achieve something in notebook, now moving on to understanding what happens. Spent time on EHT press release, limited distribution to stations and CBD; rewrite of annual report section relating to EHT paper. Attended diversity workshop and future-of-meetings meeting: tried "gather.town" and glue — the latter is VR: tempted to get an Oculus set! (Interesting observation: even in VR space people will face the projected slides/ i.e. back to the crowd). This week: job interviews and EAS special session, and planning of VO workshop w/ YanG and MattiaM (ASTRON).

Aard: sfxc2mark4 issue fixed — problem w/ one-letter station mapping: used default if station not in mapping, run out of letters, then reuse letters —> ouch. 4Gbps stress test: did not find anything strange; want to re-run with certain debug options turned on [eBob]: can schedule time and stop transfer + corr and run test: eBob+Aard organize+run test. Fix coherent dedispersion hang, but mixed BW does not work at all; will have to find way to merge into production, but not hurt default performance. Will be working on Jupyterlab plugin since WP4 tech forum coming up (will present about this).

eBob: MartinL reported: graphs shows 6Gbps into fb1? Turns out new prio transfer code did five stations to fb1, and correlating at the same time not impacted (great news!). Stresstest w/ fb12: 4 Gbps doesn't work at all even after 2 x 2 Gbps to four fb's, whereas 2 Gbps just fine; diffs: 1) 4 Gbps uses datastreams 2) 4 Gbps has 64 MHz bands. pySCHED automated tests reported deprecation warning of matplotlib api function: code reworked so users should never see this. Working on archive website, not much so far; Des had already done something; solution: set up new repo, maybe seed with Des' attempts.

Mark: sfxc outputnode bottleneck fix test during e-VLBI tomorrow. Attended ESCAPE WP3+WP5 meeting, BHC meeting (funding ended but not meetings) — interesting to see different approach. Wrote unittest for generic Jones applycal, pushed to branch for ticket (ready for inclusion); the unittest was useful, revealed a bug! Writing CASA per-scan interpolation for 2nd time: "cal libraries" and function-w-

large-number-of-arguments versions of calibration code take different code paths and need to be coded independently for each code path; git-lfs has problem if http download of large binary file (e.g. test data) breaks; leaves repo in indeterminate state, must restart from scratch. Will be attending receiver workshop later this week.

Des: Attended diversity workshop and 2hr EU-VGOS meeting. Wrote an updated fringefit memo and now processing feedback on that one. Playing with databases and find there's a lot of manual work involved. Will be smartening up on reactjs/javascript for next gen virtual radio interferometer in javascript and make the RoboZsolt/PaperDatabase interface more 21st century.