

ZWURM, 02-06-2020 14:00 (WURM through Zoom because of #COVID19 house quarantine/wk13)

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

Paul: SURFnet installed the 2nd 100 Gbps link. We now have 200 Gbps, however, the 2nd is only for redundancy. SURFnet7 equipment disconnected, will be switched off & removed later when COVID19 restrictions ease. The LT08 drive was delivered, mounted in archive machine; tapes should arrive this week. UniBoards, uni-ctl machine all switched off. Mk6-0 CX4 card connected to switch, can now be (re)installed/netboot'ed. Fixed backup misconfigurations that accumulated over the last months (e.g. hosts not being backed up). The 100 Gbps equipment for ASTRON's network should arrive this week (target migration before end 2020). Spanning tree protocol was disabled on the JIVE spine switches and now the network seems stable.

Des: Negotiating with GeorgeM about merge of dispersive delay pull request. Seems all green but actual build fails for various and entertaining reasons (full build takes ~1.5 days). Switched to work on wideband fringefitter. The PaperDatabase will remain but an interface for the users to manually fill or request list will be made (e.g. through code on services.jive.nl) to help manual vetting being less work; RoboZsolt remains used as an aid.

Ilse: Talked with BenitoM about pipeline(s) and data reduction, now has a copy of the pipeline. Summerstudent projects are officially cancelled; will take over A0Flagger project to see if useful for EVN data. Asked BenitoM for feedback on the Jupyter notebook and results. Investigating Jupyter notebook version control systems; there are several [MarkK: git based is preferential, HarroV: consider ESCAPE WP5 applicability when evaluating]. Co- or shared notebook development might be an option too. CWL put on hold, now producing flowchart for pre-calibration pipeline. Might allow to assess whether CWL or other pipeline tool is appropriate. Whilst running Mark-scripts in notebook hang during gaincal with elevation range. Will attempt to reproduce before filing bug.

eBob: runjob recording timing done, not tested yet. Question for Des re 4 Gbps e-VLBI: works in production db or only test? BenitoM tested BobC's changed setinis and found small diffs. With pySCHED they define less than normal (e.g. frequency offset per channel); might be different from expected SCHED default behaviour. Need to discuss in upcoming SciSu/TechOps joint meeting. EVN Session II/2020 has started: e-transfer hang. Turns out waiting for Nt (flexbuff not connectable), but Nt did not observe. BobC and/or operators should know which stations actually observed and use (existing) tool to set the system expectations accordingly.

Mark: Acquired VLBA data with gaincurve data, now testing w/ prototype code. Will try FT036 8 Gbps correlation. Q[to Aard]: correlated using GUI? A[from Aard]: yes. CASA/VLBI telecon was held last week; Des and Mark should make sure dispersive fringefit does

not fall through the cracks. According to Mark the pull request is marked "green", merge with master seems to have worked. LOFAR writing UVFITS in stead of ASTRON-FITS already patched by TammoJD, but some LOFAR stations get names > 8 characters (e.g. concatenating data where one station has different positions in the data sets – name from 2nd data set gets renamed (character added)). This is an AIPS limit, not a FITS limit. Mark notes that difmap is still really popular with scientists so when turning attention to imaging should investigate what it is they've got right whilst others are getting it wrong (AIPS, casa imager) or only slightly worse (WSClean).

Aard: Found himself on three proposals – two more FRB proposals on top of Radcliffe's beam map proposal. Added the SFXC debug button to the GUI, even disables repeated hammering of the button [although through careful timing, allegedly, the Qt-button-code can be tricked into executing twice]. Operators reported a legit sfxc bug: consistent hang observed when mixed bandwidth combined with multithread VDIF. SFXC debug button already paid off: state whilst hang/crash indicates datareader continues but correlation node hangs. There was a hanging sfxc process at some point (100% CPU), but locating that was difficult. Call for a proper monitoring system is growing. Now doing the archive frontend in reactjs; all the cool (facebook) kids use it [reactjs = facebook/instagram javascript GUI library].