

WURM, 13-06-2022 13:00 JIVE Hooghoudtzaal

Present BobE, Ilse, Aard, Mark, Paul, Des, Wybren, Marjolein

Plenary: Reminder – as long as verloftool is online, use it to apply for WfH so others can see where you are. Old evlbi.org webserver: recently found out several applications/scripts not migrated to new server [not under our maintenance, not our responsibility, other groups had not realized this was not contained in "website" (==Drupal CMS only)]; will have to give the user support/operations group helping hand migrating e.g. to services.jive.eu and rewriting insecure web code. KPI system: ArpadS to coordinate, our group asked for technical implementation – looking for suggestions for low barrier system [MarkK/PaulB: difficult if requirements unknown] A: will discuss later this week, and hear subtly different statements but a way for accounting/ticket system needs to be thought of, MarjoleinV has raised concern within MT that Council wants "impact" and not "performance" so KPI is not right instrument, but "performance" measurements were discarded: TBC.

After this discussion IlsevB had to leave for NOVA ISC meeting.

Des: manage to create docker image for MeqSilhouette; may have created a github PR; docker recipe contains knowledge how to install + build: not all required deps installable through "apt-get"; spoiler conclusion: useful for JIVE [MarkK: shouldn't that be SYMBA these days?] A: yes, SYMBA builds on MeqSilhouette [MarkK: rPicard pipeline? Likely useful for EVN] A: sure, allows perturbing data in controlled fashion. Closure phase research: also done, needs to be documented; not used for imaging although w/o calibration can still infer source properties – see EHT; EHT uses for novel imaging method, interesting to use on LOFAR long baseline data. DOI landing pages: linking epochs to experiments and back; code now on jop88, should place on landing.jive.eu [some discussion on maybe on archive itself but having it separated is not necessarily bad, may even be better to keep archive config simpler].

Aard: phase cal fuzz factor 8×128 [same PCAL amps as DiFX] located in DiFX code as $x \times 128$ so " $x \times 8$ " still unaccounted for. RebeccaL happy with reply on Doppler correcting before determining timing. Rechecked PFB code (worried it was wrong – it isn't); 10 min scan took 2 hr to correlate; use Intel IPP call => speed $\times 4$. Collected incoherent disp measurements for paper. Jupyterhub HTML interface timeout: upgraded server before, did not fix, now upgraded frontend (new Jupyterlab) and new CASA.

BobE: collected manual BobC VEX edits for eMerlin and automated those in log2vex (e.g. \$DAS + two threads in \$THREADS). pySCHED: working on sum file: overview, stations, freqs done, getting to sources, where sun warnings should appear (finally ...).

Mark: BerthH: not all fringes visible in plot – known issue but as long as not complaints ...: buttons taken from subbands in last station, if that one doesn't have all subbands not all subbands

visible (fixed). Ilse's INAF data prob: FITS already had GC (empty) which got written to MS (no override possible) => CASA applycal uses existing MS GC even if user specifies other table: fixed by allowing importfitsidi to replace supplied GC/TSYS with different one; similar issue popped up last week with VLBA data that includes a VLA dish (not phased VLA), in that case incomplete GC/TSYS written (no data for VLA antenna, only if == phased VLA); AIPS cheats: has VLA GC/TSYS hardcoded. EOPs: astropy recalc works but only accurate for up to C-band; Idea BobC: use standard SOFA routines; C-functions. astropy uses SOFA but also does other things during the computation; TBC. Sys req meeting ngEHT: interesting meeting, review panel only few questions for DataMgmt WG. Will be preparing talk for Granada EHT meeting.

Wybren: upgraded nodes to 18.04 in preparation for targets head+tail. Systems that had postfix running: disabled it. Supermicro Update Manager: automate BIOS setup possible via config file; might be possible over IPMI, but should make installing new servers A LOT easier. Broken HDD in fb12, checking SSL certificates. m-nodes had issue PXE-boot: problem gone but unclear why.

Paul: setting up accounts for new employee (WybrenB). Tue: could not reach old.evlbi.org - ICT removed it from DNS w/o consulting. fb18 has 2 x 25Gbps, within one week one lane of the 100 Gbps optic it connects to broken; in a bout of common sense FiberStore let send to Germany for replacement iso shipping to China for repair. sfxc-[efgh] to 18.04. Security patches applied to many systems=many reboots. e-VLBI dates: sudden possible doubling of e-VLBI time (if trigger): what to tell SURF for maintenance window? Simplest: block whole 52h period (2 x 24 hr science + 4 h test). Tape drives: remains under investigation wether tape or tape drive broken; LT02 requires reviving at least one LT03 drive.