

WURM, 25-08-2025 13:00 CEST WURMng Marjolein's office

Present: Bob, Aard, Des, Mark, Marjolein

Plenary announcements: TOG next week

Aard: JupyterHub – static documents in Keycloak config = nightmare URL, installed nginx, now have separate route for static docs and for hub, upgraded Keycloak to using Quarkus configuration, remaining: team config edit; used a MariaDB that's isn't LTS => migrated to one that is (but documentation suggests Postgres is the chosen DB – expect future migration to there). Started work on coherent dedispersion GPU code; telecon w/ FranzK on PSR data to use for SFXC Workshop.

Des: PolConvert on MSv2: got new MSs (post phase-sign-convention swap), more consistent now, but observing some low-level irregularities in phase whilst amp looks good. Had conversation w/ GeorgeM: seems to be on board with new phase parametrization (ref: phasor document). VIPER least-squares solver OK on one baseline, want to separate FFT and LSQ stages since they operate independently anyway. LOFAR long baseline busy week this week: will sit in where possible.

Bob: BobC + ZsoltP contacted about e-shipping of VLBA data from Socorro using e-transfer. Integrated even more LBA setups into PySCHED. Have data with multiple data streams not completely overlapping in time, runjob not handling very elegant. KVN multi-thread data: use Marjolein's AI-generated Python script to write threads out as separate files; related question: should VDIF thread numbers be recorded in the vbs2db process? [(A+M)K: Yes, and possibly other details like nr of channels/thread and other info]. PySCHED release done before holiday, found two bugs in it: changes in packaging, in the include files, and a change in array length passed to function: wrapper generator cannot infer this automatically – needs to be dimensioned manually. Checked w/ BobC for DBBC3 e-VLBI test re. BBC to core3h mapping – allegedly it's as simple as 8 BBCs/core3h. Together w/ Wybren: bring Berth temp monitoring system into Zabbix – was already in github and modernised, so wasn't that difficult; but not all sensors are available yet.

Mark: casacore PR for fixing ms-concat accepted, next step is incorporating in CASA: unlikely in next release (code freeze in two weeks or so) because it would require a casacore uprev, which is too drastic so short before a new release. Phasecals at 0 Hz offset: turns out algorithm supporting that is actually simpler; tested successfully against VLBA own method. During that found out that sfxc2mk4 does not handle mixed bandwidth very well, will require fair amount of rewrite, and checking sign conventions+conversions. SFXC Workshop: created N24L2 snippet for general use (~10 GB), hosted on the EVN Archive. WybrenB started sfxc-[efgh] cluster config for workshop (guest accounts, home dirs, packages, slurm, external IPv4). RADIOBLOCKS Milestone 18 submitted to coordinator.