

ZWURM, 20-12-2021 13:00 ZWURM; back to WfH (COVID-19 wk93)

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

Plenary announcements: The IVS is organising their bi-annual General Meeting at the end of March 2022 and organize a VLBI school dedicated to geodetic VLBI data processing before that. This year is a virtual-only installment and therefore has a low barrier to entry. Inquisitive staff should feel themselves encouraged to register.

Paul: Received SURFcert emergency, mongo-db installation open to world found on services.jive.nl; delegated to Des as it was his trial DOI database [Des: DOI databasing mixed with javascript, wanted to experiment with JSON database and accidentally left open to the world. Should be only internally visible, maybe scratch VM?], for the moment shut down that (experimental) db. Together with JulianK, KlaasS, staff@SURF NOC migrated ASTRON connections onto the 100 Gbps link (2yr project!); currently ASTRON can use 25 Gbps, some lightpaths still need migrating but will be done next year; previously installed network monitoring system (reported in previous WURMs) found to be insufficient, now changing to Zabbix. Received quote for fb90 ("PetaBuff", 90-bay fb). Rackspace reorganisation: want to have machines with 25 Gbps connectivity in same rack: eee, jupyterhub, new archive so far, what about out.sfxc? [MarkK: hard disks currently limit so not necessary] A: will monitor network for load. The SKA review paper still requires some work and pkt loss on internal network remains under investigation.

Aard: Spent time installing computer w/ new O/S (upgrade required). Trying to do coherent dedispersion found sfxc crashing unpredictably, even re-running same scan. Found BinderHub not running for 20 days, should come up by default at reboot [MarkK: documenting the procedure on e.g. Redmine?] A: Excellent idea. Jupyterhub plugin: button to upload notebook not visible in UI whilst registered seemingly in same/correct way; debugging that.

Ilse: CASA VLBI paper editing; investigating CASA-AIPS diff: traced to weights [MarkK: ampcal issue? AIPS uses other ampcal?] Tsys and phases compare OK, baseline amplitudes bimodal distribution, differing baselines are all to KVAZAR stations (who do not supply Tsys) - we have a candidate cause to follow up. Addressing BenitoM's continuum notebook remarks cont'd, how to link to data in archive, maybe use @AardK's tool, that edit not on gitea yet; add atmospheric correction(s) already? [MarkK: probably not before CASA known issues resolved, is NRAO ticket, get support group involved to provide motivational evidence of (positive) impact of correction(s)].

Mark: CASA VLBI coord mtng: hiring VLBA person completed, from outside US of A so can take a while before in action; @GeorgeM expects to work on some of our tickets (per-scan interp (@MarkK) and combining polarizations (@DesS)); new version of requirements document where completed items moved to Annex, may need wider distribution. Spent time on CASA VLBI paper writing as well as on several EHT papers w/ MMK as co-author which are emerging. V0 work:

obs_pub_did changed to include target + obs band so now can be used as unique/for'n key for databasin'; this required regenerating DACHS seed csv, need to take into account new data sets added since date of cache csv; getting JIVE server registered in V0 through US of A = lot of red tape, try European route, found email, awaiting response. casacore: MarkW issues reading >255 antenna data into Miriad, problem at their end. Last Fri Ys new wide-band receiver test realised JIT that sfxc-k node(s) for ftp fringe test not yet online, with immediate support from @PaulB now they are.

Des: Working on CASA VLBI paper. PapersDB suffered some bitrot but now working again so @ZsoltP can start grovelling. Control_dbbc: @BobE sent list of commands for DBBC/FiLa10G. casa tickets now prio#1; @GeorgeM sais combining pol'ns ok except naming convention and one of the params should be string not bool, to allow flexible future selection; Q to @GeorgeM if was using correct factory factory - needs to be verified if right kind is used. Time prevailing this week work on supporting uv-distance filter in fringe fit.