

ZWURM, 03-05-2021 14:00 (ZWURM through Zoom because of #COVID19 house quarantine/wk60)

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

Paul: fb2 – two more pools were synced, added six disks and expect to have five out of six pools back online starting tomorrow. Raises practicalities of what does "doubling of storage" / "expansion to 500 TB at JIVE" actually mean? Stations that cannot even do 2 Gbps do they have to provide 500 TB as well (e.g. WSRT)? And what is the total expected size at JIVE? 12 regular members x 500 TB = 6 PB or will we target ~ 9 PB? [Harro:] the CBD directive is simple: 500 TB per station and we're already struggling with the current 4 PB (estimated single session size \geq 3 PB) so let's try to maximize storage at JIVE; decision to diverge from 500 TB is CBD level, not JIVE's call. Installed Ubuntu 21.04, now uses secure boot (signed distribution) and some motherboards do not accept the installation key so Ubuntu has now disabled upgrades. Desktop at JIVE suddenly disappeared from the network and after on-site inspection (after the weekend) no boot disks were recognized – the BIOS was corrupted and the secure boot did not accept the boot disks; solved by disabling secure boot and desktop now fine again. No feedback from AlexanderN on topic of monitoring system so far.

Ilse: Last week was meeting-week. Took part in KNAC discussion on future – still unclear. In-between them worked on annotated V0 notebook for use at local V0 workshop; go/no-go decision this week or next, may be postponed to after summer. At vlcoffee a discussion on the spectral line processing notebook was initiated; will be followed up by scoped separate meeting. Started work on JUMPING JIVE WP2 final deliverable.

Mark: CASA VLBI coordination meeting: future of CASA not spent much thought on MacOS support, seems to work but not at all well documented; discussed strategy for next release; current release really "any day now", not all tickets merged yet so will take some more time BUT the branch for 6.3 is now open! Attended zTOG, VLBA upgrade status important to know; ESCAPE WP3 meeting; JIVE GM. Only had limited time; worked on ESCAPE WP4 making S/X observations appear as two observations in stead of one very wide band observation. This week have IVOA Radio Interest Group meeting – preparing input for upcoming interop meeting end of May.

Aard: Jupyterhub configuration: decided to attach Keycloak to real database; make into docker-compose application and find that actually useful to bring up a system of services that connect to each other; otoh, export configuration + import into new setup doesn't work at all so had to redo the configuration manually; spent time on making Keycloak admin link not world accessible, proves very difficult, requiring deep XML changes and when following documented procedure authentication doesn't work at all anymore. MPC pipeline installed on jop83, discuss handling of MPC sources, could be done easier by changing to other source id in stead of editing VEX file since source with updated position already in FITS file. FranzK has

requested thirteen bursts to be correlated, time to automate this (done manually before, which is doable with two to three bursts per exp.); based on TOPO TOA convert to GEO, create window, search pulse and widen until SNR drops, although doing it that way seems to result in narrower window than using eye-ball technology.

eBob: performed e-VLBI stresstest to check fb12/fb15 diff - fb12 has expander backplane not all direct connected disks! Used 4 Gbps @ 64 MHz bands, 2 sta x [2 x 2 Gbps]: 1 sta / node, 4 Gbps rec only = fine; 2 sta / node, 8 Gbps rec + no corr = "almost" (0.2% packet loss); 4 Gbps rec + 2 Gbps corr = ok; 8 Gbps rec + 8 Gbps corr = ok too! In that last mode fb12 actually BETTER - fb15 suffers correlator lag; cause not immediately clear - machines were chose to be "as equal as possible" except storage HBAs. All tests repeated three times and got same outcome. At the TOG UweB suggested Ef 4 Gbps split stream problems may be connected to ethernet I/F, will suggest performing simple test with other I/F (can easily be done manually). Will start on NorthStar tickets this week and continue upgrade of the archive scripts.