

ZWURM, 21-02-2022 13:00 ZWURM (COVID-19 wk104)

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

Aard: Most work delayed last week on account of illness. Inspecting logs from MPC test at e-VLBI: found to contain old logs, "create debug" button can crash correlator if pressed too early; found performance @4 phase centres disappointing (only 14 stations supported) [MarkK: did computation earlier today, cluster specced at 12 stations * 4 Gbps = 24 stations @ 2 Gbps, switching MPC on gives 30% penalty = ~17 stations @ 2 Gbps, missing some nodes (sfxc-[ijl], sfxc-o[12,13]) representing ~20-25% of CPU cores, i.e. 14 stations @ 2 Gbps realtime is not unrealistic]. Did check output buffer sizes and they were definitely large enough.

Mark: MPC during e-VLBI: have hypothesis about GUI bug that was found (gui list of scans not picking up source change may cause tools to wait for erroneous file(s) to become readable). Attended VLBI in the SKA era, ESCAPE WP3, INFRA-TECH meeting - wearing two hats: JIVE + EHT. uGMRT tests, mostly handled by BenitoM, some issues: sfxc-k nodes down, helped out. This week EU-VGOS corr meeting, CASA VLBI coord, kick-off ngEHT DM wg and an ESCAPE WP3 mtng.

Paul: sfxc-k[023] working again; sfxc-k1 needs n/w card taken out; sfxc-[ijl] not connected, so switch off? [Yes, please]. Collected ~30 faulty QSFP+ modules ready for shipping to CN. Following up "fb90" delivery: probably March/April time frame. Certificate of "services.jive.eu" needs to be renewed. Ir e-VLBI network probs: backtraffic arrived in LV: see the ingress counter go up, but doesn't leave the switch, no ARP discovery of fila10g IP address => switch into broadcast e-VLBI traffic (not at full rate) - get 75% data loss; Ir have connected their fb to the e-VLBI network for debugging, can ping it now. Working on migration plan for archive, then distribute it for discussion before executing.

Ilse: attended VLBI in the SKA era, had several meetings. JackR will initiate a SKA simulation team and will send invite. Working on CASA / AIPS comparison plots. This week many meetings. Q by JorgeR: Jupyterhub article in EVN Newsletter - when? [short discussion: Jupyterhub cannot be opened to eduGAIN yet b/c of GDPR related checkboxes to tick before SURF will allow propagation to production service, Marjo is working on that but JIVE GDPR state is deplorable]

Des: DOI developments: take abstract from appropriate source (archive db, not proposal db), found archive db not normalized at all (will fix whilst at it); can now create landing page + DOI, currently giving each epoch own DOI. Q: one DOI for exp, one DOI for each epoch? [short discussion ensues, it is important to link epochs, and DOI provides a mechanism of labelling a collection, will require some thoughts, which will be taken outside this meeting to be settled (behind the bikeshed, presumably)]. Generated JSON for LeonidG student catalog. MichaelJ reports some problem w/ rereferencing in fringeFit (code from MarkK) [MarkK: working on

composing an answer, might need to do some expectation mgmt].
Finished instrumenting CASA for performance measurements (found out after qst that this required a Python switch to be set too).

BobE: was able to run udpsnor test @e-VLBI for 15-30 min, configuration now ok (only recipients configured): no immediate diffs [MarkK: maybe at next e-VLBI start clock search with this, switch back when science starts]. LT0[34] => LT08 respooling: changed approach since method of restoring in "proper" location gets too complicated w/ bookkeeping what has been done or not; now restore to different area, new backup system checks that location too. Proposal server: new O/S, tomcat copied and test version, require Java <= 7, difficult to find outside Oracle (which would require dreadful terms); found open source version; working on allowing MySQL access from new VM, have to add https.

AOB:

[PaulB:] Liquid (Composable Infrastructure), any interest for us?
[MarkK:] JIVE probably too small, but if someone builds we might reuse/adapt to it.

[MarkK:] Zolochiv VDIF data - who should run it through the correlator? Aard or me? (Aard it will be). Best copy some scan data from fb to test cluster sfxc-[efgh].