

WURM, 08-04-2024 13:00 WURM Marjo's office

Present Aard, Mark, Des, Wybren, Paul, Bob, Marjolein

Plenary part: tomorrow e-VLBI, not too big: 7 sta L-band (1024 Mbps) but w/ recording [more during+after meeting].  
Planned ACME start date is 1 Sept 2024.

Mark: CASA developers mtng last week; JustinL testing EOP corrections on similarly miscorrelated VLBA dataset as we did. IVOA RiG meeting: installed test server w/ latest DACHS (which has ObsCore extensions) on VM on laptop: seems to work, i.e. getting necessary to have outstanding access-to-archive2 ticket serviced. There was also an OSSR mtng last week, not much to update. Working on getting fast(er) VDIF dechanneliser into proper radioblock for use in other projects.

Des: working on PolConvert; intermediate data files between IvanMV's Python and C++ vsn identical, however, after bandpass corr results differ - trying to understand. Got VGOS data from IvanMV! Alt weighting scheme in fringeFit: working around new buildsystem inconveniences (previous build was wrong). Outreach magnets-with-webcam: needs to be done before school kids visit this Wed; found that demos were wrong, looking for new ones.

Aard: ShivaniB complaint: auto-generated ctrl file results in odd outcomexs, turns out burst in last second of scan was not handled correctly. JupyterHub: after update SATOSA proxy not (automatically) running (fixed, well, half-ish: still need to add as service). Defining tests for GPU corr in gitlab CI/CD: e.g. if output is stable (binary diff), have Python class to interpret + compare binary data, could do with some unit tests. Busy merging coherent dedispersion code into trunk.

Wybren: checked "xz" backdoor, no systems of us seem to have that vulnerability. Cleaning up after verlof overview change (nginx config, certificates); want server for other Flask apps but cannot load modules in Py: together w/ Des exploring: venvs seem ok, apart from uwsgi, which still #FAILs to import. Mattermost updated; testing on parallel system to see if subscription to repo works: that would make updating (a lot) easier; change over if seems to work.

Bob: at last e-VLBI run w/ Py3 vsn from ccsbeta: correlator starts lagging; noticed channel order different in control file: maybe channel extractor issue? [discussion ensues; Mark+Aard surmise that due to possible race condition slow vsn gets used in stead of compiled] Can't be whole story b/c with slow version is instantaneous crash, but this builds up [Aard: in e-VLBI compiled for each scan separately, unlikely to reuse cached (fast) version?]. Tomorrow will try recorded e-VLBI w/ Py3 vsn [Wybren: possibility to test network?] yes, there is a gap [more under Paul+AOB, red.] Have deployed OAuth2-based leave overview app, now working on installing+configuring Keycloak instance.

Paul: radiostars conf next week: poster upgraded to oral (poster already half-done ...). "Emergency power outage" last week: for fire insurance checked distribution cabinet w/ thermal camera, measure a relay at temp 60+C, plastic starts to harden at 50+C so needed replacement pronto. Stripped wires and reconnected: prob not fixed, i.e. relay itself needs to be replaced: more downtime coming. Archive2 migration hung on test-db migration which failed b/c of 100% disk full, after enlargement left FS/db file(s) in broken state, managed to fix and ticket now back to BenitoM for verification. pktloss at e-VLBI: strong link w/ NIC type but so far IRQ balancing tuning doesn't seem to make a change, nor does coalescing, but in fact not enough progress made on the subject. Working on installing HP server from CAMRAS; borrowed some UniBoard fibers. Tape-robot quote expected in ~two days; new type will be announced shortly.

AOB:

[Paul: pkt loss test tomorrow? 1024 Mbps + recording = could be challenge, but may be able to circumvent by allocating appropriate machines.]

[Mark: reproducible w/o data from stations? Can we try to find alternate monitoring points? ethtool not installed everywhere?!]

[Paul: yes it is in ansible now, together w/ lscsi and some other tools; will check if better/alt monitoring counters are available]

[Marjo: can monitor IRQ stats if irq's pinned to single core to see if coalescing /actually/ changes anything?]

[Paul: current auto-coalescing tuning set]

[Mark: could decide on sub-optimal value, who knows]

[Marjo: for generating test data on cluster: would it be possible to use multicast? (Yes, the receiver s/w can handle that)]

[Wybren: replaced NIC in fb16, can decide to upgrade f/w on fb15 for example]