

WURM, 12-02-2024 13:00 WURMng Hooghoudt room

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

Plenary session:

ACME project officially funded, partners now working towards Grant- and Consortium Agreements; some work coming our side.

EVNCam project proposal: still significant interest from partners, apparently trying to make 12 March deadline; Marjo may drop by some people to check text for gross mistakes.

Aard: eVLBI went smooth on all days. GPU-fxc data now in sfxc format, presented results at RADIOBLOCKS WP4 meeting: phase ok, just few deg off (random), amp features compare ok but seems scaled version; even after finding & fixing bug in normalisation. GPU-fxc now builds on ASTRON gitlab CI/CD system and testdata on DAS-6 cluster but no runner - needs activation; will get help from StevenB and BramV. Managed to sync gitlab and code.jive.eu even though on same domain (both complain about this). Converted several more sfxc scripts to Py3.

Paul: DAT issues - enclosure noisy, moved to other enclosure, try tape = #FAIL, tried newer tape, which worked: maybe running into case where old(est) tapes are damaged? eee discussion started, briefly look into 200 TB SSD storage (is it feasible?)(*). ESA sFTP on marcopolo: now GiuseppeC can't log in, but not clear if that worked before sFTP setup. Found closed solution for flicker phase noise (not handled in TMS). Guided tour to telescope for SURFnet innovation mgr today.

Bob: multifacility CfP repo issue, figured need to know about WebDAV (so learned about it), turned out special user used but that one was purged in the cleanup; added EU grant information and logos. Tried archive2 scripts and found they run as expected: when BenitoM back will try full run. Got an antab_editor problem report by Gabor0 which was quickly fixed. e-VLBI not 100% smooth: observed ~0.2% loss on 2/3rd of the stations(**).

Mark: working on half-precision floating point: not yet working; TEASER talk by Erick very interesting, after that experimented with FFT black boxes and was able to verify correct operation (i.e. deliver the expected results). RADIOBLOCKS deliverables checked and finished, now someone else needs to review (looks @Marjo). Had an OSSR onboarding meeting; received some new entries: divided amongst committee.

Wybren: was working on evn-monitor until mgr came along and saying "drop that, do something else!"; working on EVNCalculator since then; almost done (didn't seem to work but was reverse proxy, not server). Investigating 0.2% loss in graphs(**).

Des: db2vex bugreport hopefully addressed this week. Dask fringeFit: figuring out multi-band, have idea, went back to improve single-band. VIPER code review requested by JanWillems.

Deeper discussion points:

[(*) Paul] eee config, 200 TB storage option can do @10k€ w/ 4 TB SSDs, 16k€ w/ 8 TB SSDs, 2.2k€ with 18 TB HDDs ... so not undoable, but someone will have to check the budget (looks @Marjo)
Given that I/O is usually the bottleneck and multi-tiered solutions (SSD + HDD) are typically more trouble than they're worth probably not go into that. Several users for several years warrants beefy machine, but still: only finite budget #AVAIL.

[(**) Bob, Mark, Wybren] 0.2% loss seen in 2 Gbps e-VLBI on Tue, Wed, but also at 1 Gbps recorded e-VLBI on Thu. Looks like there might be correlation between loss at stations. Zabbix discarded inbound pkt counter > 0, could indicate problem? Maybe someone needs to clean fibers?

Spot-checks of recorded data indicate that data is also lost in recording so likely lost on the network.

Could it correlate w/ Intel NICs; f/w was upgraded (quick check after mtng: nope).

Might check if problem follows station (if moved to diff flexbuff between Tue and Thu sessions).

Problem might be that Mellanox SN2100's are NOT store-and-forward switches but start forwarding as soon as hdr has been received.

To be continued ...