

WURM, 11-11-2024 13:00 CET WURMng Marjolein's office

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

Plenary announcements:

EVN CBD/JIVE Council in ~a month (early Dec), so expect bullet list requests! Also: e-VLBI tomorrow, people need to be on standby just in case.

Paul: database update: roll-out of binlog across all systems ongoing, not always trivial; risk is (much) increased disk usage, some query types seem to complain, and some downtime is to be expected. Added some more personal accounts on marcopolo, and EEE2 testing is ongoing; archive will need a reboot tomorrow b/c of patches. Reviewed Mattermost invite policies, some options exist (verified invite, for individual emails, bulk invite that ppl can share; not entirely sure if this can be done per team; shareable URL must be able to be rotated/invalidated). Will be putting leftover HDDs into archive2; no progress in consolidating mem/NIC situation across fb's. Doing a TEASER talk tomorrow.

Aard: BenitoM is new ShivaniB – edit scripts to make them work. Fiber between fb's and RB cluster: when Julian/Wilco are back (~two weeks) can start to plan planning a plan [A0B]. Changing delay model to single precision seems OK: 0.1s intervals good enough up to 80 GHz sky freq; on systems that do not have native double have x2 performance, no diff on those that have. Tests on GH200 show potential 460 Gbps w/o tuning (>> whole current cluster ...).

Wybren: sFlow status = have license, ran into zfs pool issues (lost, found, no history) – seems "by name" not possible anymore in loonix, maybe by PCI path. fb6 has broken SATA-DOM, ordered a few new ones (getting scarce). Cooling machine #FAIL required shutdown over weekend, but after reboot *everything came up*! Created dashboard for fb storage, also want one for power monitoring. Will try to update switches this week.

Bob: pySCHED: addressing build system b/c reported issues w/ new setuptools: numpy2.0 does things completely different, does not pick up sources automatically, uses meson, expect more reported issues b/c of more manual work. [Q: numpy2.0 – exactly how bad is it?] [A: not quite Py2=>Py3 bad, but serious nonetheless]. NRAO svn conversion merge: git does not quite recognize the same patches in different trees as identical: removes first one completely, then drops 2nd one on top, i.e. history still looks like sh*t. Options exist, but if we do not fix this properly, future merges may turn out to be impossible.

Des: looking at FRING SNR (again), some differences wrt CASA seen – so LSQ SNR counts in detection decision Y/N: located where this happens, should replicate? Know what to do, but not done. fringeFit in RADPS: creates caltable that can be applied, good in freq, not in time. BenitoM asked: ShivaniB branch of casa? All done, taken by MarkK, now in hands of GeorgeM, so probably nothing happened (this

is the single-time-stamp fringe fit fix - red.). Received requests re. Mattermost feedback tool from JunY; will look into. db situation: starting to look into that.

A0B:

DAS6 cluster to fb link: would be nice if NIC can do RDMA. Investigate first if RDMA can go over routed, b/c then can "just" use the 2x100 Gbps link iso independent fiber: fb's do not have space for another NIC and currently only 2 x 10Gbps / fb avail.

Batch jobs, containerised correlator: we should be looking into deploying batch jobs on generic HPC infrastructure. Several people outside of JIVE have already done that. GH200 might be (srsly) overpowered for EVN use, could be that smaller cards have better balance between I/O and compute.