

WURM, 13-10-2025 14:30 CEST WURM Marjo's office

Present: Aard, Mark, Des, Bob, Paul, Wybren (remote), Marjolein

Plenary: no WURM next two Mondays; tomorrow a Northstar=>POLARIS internal meeting; ChrisP visiting Wed-Fri + Mon.

Mark: working on CASA "issues", VLBI Coordination meeting still happening, concatenating data with multiple setups problem: Tsys not correctly remapped (fixed). Implemented some tests for (new) code in CASA. Working on ACME D4.1 (which is overdue) with BrunoK, aim is to finish this month. Found some bugs in sfxc-gpu; rebasing UCX branch, still working! ADASS poster submission also accepted.

Paul: asterics.eu down for 25 days and counting: it was moved to another rack, but apparently no priority (Action Marjo: bring up in BiLa w/ AukeK). New RADIOBLOCKS sponsored GPU server: order is-at BnC, expect delivery now() + 2wk; optics already arrived. Correct HBA for fb22: during visit of BnC comment "should be delivered" but it isn't, maybe this week then. Created accounts for new supp.sci on RedMine and in LDAP. Together w/ DesS worked on backup reporting (done). SQL backup unification and reporting in progress. db0 migration date set for week starting 17 Nov. Activity re. EEE2 by supp.sci. Paper WhiteRabbit in Radio Interferometry accepted in Experimental Astronomy.

AOB: solution for SWEEPS storage req's?

Des: RADPS code cleanup + editing for new framework; getting it ready for check-in. PolCvt: only have one test data set, on which it works (judged to be "as irritating as could be") but should run it on a few more exps at the very least.

Bob: kept eye on POLARIS commits, see one API call changed, limiting edit to only PI (this mechanism could be extended to all API calls); looked at mgmt part: largely incomplete, wrong defaults, and a Catch-22: reviewer must be member of TAC, but to get to have TAC role need to be reviewer; Keycloak member role mgmt not in GUI but in Keycloak itself, i.e. two places where roles are managed. EVN CfP deadline: monitored errors, nothing like previous errors, one b/c user working on same proposal from two tabs. Q by BenitoM: can unify SEFD tables used in three different apps (EVN Calculator, Planobs, ANTAB_editor)? [Mark: suggest to use VOTable on current/own V0 service] [Everyone: yes, good idea] need merge strategy because several diffs right now [idea: manage in git repo, use workflow / action runner to translate and publish updated VOTable?] ANTAB_editor fix: writes two entries for all stations if > 1 pol present. Some PySCHED regression tests fail. Setup merging for SCHED12 not run: LBA used temporary names, now want to move back to normal names (this was for DBBC2). Auto-build of PySCHED failed: montly conda cache cleared: took three attempts before successful build; somehow d/l stops sometimes in the middle (using conda-forge packages).

Wybren: Anubis tests on code.jive.eu (proof-of-work); some nginx needed. Created test Mattermost system for Bob to experiment with.

fb22 now free for Deb13 migration (testing both fb migration and new GPU server install). casa-dev, ccs-beta, ns0, ns1 require reboot but did not get mail about that: need to investigate.

Aard: wrote sfxc tool to produce weight-plots from raw SFXC output, using matplotlib iso PyQwt. sfxc-gpu: correlating non-integer second integrations was broken (bookkeeping, fixed). Upgraded to latest TCC version: `_very_` minor, insignificant, differences in output; support for FP8; found that "larger" FFTs crash w/o telling anyone - triggered by using > 48k shared mem; needs dynamic not static memory, set property on cuda kernel; uses lot of shared mem for many configurations; get runtime crash iso warning/error: need to be more aware about FFT config to not trigger, have empirical (heuristic?) selection of parameters now. This week: hope to link to eduGAIN.

A0B:

[SWEEPS storage on test cluster]

8x HDDs won't fit; available: machines have three slots:

- root FS (SSD)
- /scratch RAID1 (hdd1)
- /scratch RAID1 (hdd2)

[Mark: some nodes have 2 TB, some 4 TB; on the 4 TB nodes have data that is not replicated on the 2 TB nodes (won't fit), but want to keep this]

SWEEPS req's: ~30 TB (2 exps)

Options:

- 3 slots / machine: unmirror /scratch, replace 2 TB by 4 TB
- fiber out, copper in, freeing up slot
(Checked: not possible: on-board copper is 1 Gbps only)
- O/S on /scratch too, remove SSD

[after useful discussion: following plan:]

- back up /scratch valuable test data onto tranter
(hot, off-site backup server)
- break /scratch mirror
- put in 8 TBs in one slot
- test gluster
- if ok():
 - replace 2 TBs with 4 TBs
 - discuss / decide how many gluster pools
 - move sfxc regressing data on 8 x 4 TB gluster
 - move SWEEPS data onto 8 x 8 TB gluster

So, after that, each sfxc-[ij] node will have:

- 1x SSD
- 1x 4 TB hdd
- 1x 8 TB hdd