

WURM, 03-04-2023 13:00 WURM (Muller room)

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

Bob: numpy PR made but no review seems imminent; have to be aware of this not dropping off the radar; quick solution is to fix numpy range  $\geq X$ ,  $\leq Y$ . Will be looking into OAuth2 into BHTOM this week.

Ilse: holiday and RADIOBLOCKS kickoff last week. JackR also present there (online), on VLBI simulator "will happen", will be @JIVE for CASA VLBI workshop, UMan indicated they have resources for this too (1st deliverable is ~ a year out). Workshop participants w/ Russian affiliation is difficult. This week: work on pipelines, e.g. JackR's for EVN, prep for NOVA ISC next week, workshop LOC meeting.

Des: attended RADIOBLOCKS kickoff last week; need to start work on dask-ms. PolConvert: still dealing with manual memory mgmt issues but nearly done.

Wybren: adding non-standard h/w to Zabbix is ongoing; update to Zabbix 6.4 broke Ansible  $\leftrightarrow$  Zabbix interface, problem in Ansible extension already identified + fixed but not released. Helped RichardB to make evn-monitor visible from WSRT control + FS. JupHub certificate expiring, whilst doing maintenance noticed local gitea ssh port is (unnecessarily) open to outside world: tried to set up firewall/blocking all possible ports but gitea sshd remains accessible? sfxc-g1 repaired. Consolidating machines running external services: nginx reverse proxy VM set up, contact Des, Mark, Martin, Bob for requirements.

Mark: abstract for Bologna40 accepted. Accelerated VDIF corner turning/channel extraction (now ~ 8 Gbps); need to test 2-ch version. Switching from `-std=gnu03` to `-std=c++11` changes binary output! Last week: RADIOBLOCKS kickoff preparation; fact: e-Merlin looking for WIDAR replacement. Newest Intel CPUs have license-based accelerated instructions (matrix multiply) - should be suggestion/our part/contribution for RADIOBLOCKS accelerator tech report.

Aard: JupyterCASA image based on v6.5.2 not installed on JupHub; when done broke plugin, fixed. Phased-array mode in sfxc: got NaNs so code was broken, fixed; Martin still busy w/ data recovery. Mixed-bandwidth normalisation issue: trying approach to use sampler statistics but not sure about correctness, using 80% of band? RADIOBLOCKS kickoff: StevenvdV (w/ CeesB) have dedisp implementation on GPU but is search and incoherent on a per-station basis, not on x-corr.

Paul: last week holiday+GNU radio conference in Paris. Archive migration: too many disks for kernel auto discovery (kernel prob even if disk discovery disabled in BIOS), will attempt 2nd install of 10 Gbps card later today; w/ Bob install website on new machine, need ideas for dev env. evn-monitor cert expires this week, require reboot; inform AlexanderN. mark5info et al being migrated to "services". Submitted LKBF proposal.