

WURM, 03-03-2025 13:00 CET WURMng Marjolein's office

Present: Paul, Mark, Des, Aard, Marjolein

Plenary: since last Friday 28 Feb the ORP-PILOT project is formally over, bar two reports. There is now a weekly short MT meeting which means that "issues" can be discussed on a shorter timescale.

Mark: working on reference frame "issue" in importfitsidi (fits keyword "equinox:2000.0" => FK5 whilst ICRS is intended) ongoing; after change should make an image to verify; issue also mentioned at CASA VLBI coordination meeting - needs to be signed off by the VLBA too; might expect j2ms2/tConvert to have to change too. Astro-CC meeting ("competence center"), OSCARS cascading grant funded to organise V0 workshops (2x tech forum, 1x data provider, 2x science/ user workshop), will include planet + solar system science [maybe give a heads-up to PietroZ and MatteaM]. Copied data from e-nodes to i-nodes and f-to-j, WybrenB wants to shut down out.sfxc; still todo: switch over nightly builds/checks, expect some #FAILs this week. AMPCAL script now has sorted output. Built repository with automatic "git tag => push to Zenodo" hook, requires CI/CD infrastructure, not sure gitea can handle that. Ongoing testing with RDMA and GPU-direct on DAS6 cluster; as far procuring more cluster: the tender was devoid of any reactions so now can go out and purchase "normally".

Des: Test for arbitrary SPW / CH selection for fringe fit now at NRAO for review. Modified PapersD and feedback UIs based on BenitoM feedback and suggestion by JunY for per-station selection in feedback. Checking porting VIPER code to xarray DataTrees.

Aard: helped Wybren w/ out.sfxc upgrade, finding huge amount of packages (> 1300 installed), for supporting 32-bit CALC [internal discussion ensues: should add ticket to build & test 64 bit vsn] and finding some Py2 code still; and found bug in sfxc-gui using Py3.11 (taking the wrong action processing a geo schedule). e-Merlin 4-bit VDIIF correlated, is multi-thread multi-channel VDIIF which isn't supported, after splitting (manually) ok; also see three-character two-letter-code (is this a limit in VEX?) - may be needed to be supported for SKA; no fringes though and bandpass almost perfect, and top-hat in sampler stats i.s.o. gaussian. GPU-filter + TCC integration: quite a lot of effort to get TCC into project, need to write accessor code that reads one point at a time.

Paul: looking into gitea <=> db coupling for HTTP/500 error, root cause still unknown, only few others report same problem. Want to expand install server to support UEFI, running into some limitations. [MarkK: IPXE?] yes, needs to be built. EEE2 out of rack, disconnect disk physically to test if it would still boot. WeCollect came for donated h/w but sent a van that was too small (springs loaded to max), even though they knew how much there was to collect, but h/w now *gone*. Ticket for link DAS6 <=> flexbuffs now one month no action after "received optics".

[Wybren by mail:]

fb20, the new UK petabuff, giving lot of trouble PXE booting but now "sort of" working. "out.sfxc" was upgraded, and HartRA0 e-shipping now faster, BobE can say more.]

[Marjolein for BobE who's testing gravity:]

Single UDT connection was very slow (40-50 Mbps) so we tried with multiple parallel tcp connections => immediately get 1+ Gbps.

[discussion about traffic shaping and/or congestion being cause of single transfer speed collapse ensues; also seeing it in e.g. ftp fringe tests]