ZWURM, 14-02-2022 13:00 ZWURM (COVID-19 wk103)

Present BobE, Aard, Des, Mark, Paul, Ilse, Marjolein

Des: DOI landing page implementation (visible only on internal hetwork): gets abstract text from NorthStar, allowed? [BobE:] abstracts at some point made public, not all exps eligible for this, copied into archive db, maybe use those [Action: check w/ BobC if indeed ok to use those]; current DOI only minted in test environment. Request from LeonidG: help student to read source catalog of LeonidP; keyin fmt showed parser not complete: ambiguous whether units are DEG or H (uses heuristics now: LeonidP fmt has two digits and always includes signs so "DEG"). Started on infrastructure in the wideband CASA fringefitter code to enable timing of the execution.

Mark: last week TOG, GMVA, no CASA tech mtng w/ GeorgeM (maybe this week), INFRA-TECH meeting and preparation for VLBI-SKA era talk. Experimented a bit with CNGI to be up to date for talk. This week that conference (will take quite some time).

Ilse: Finalized SKA s/w workshop, most lectures not very advanced. CASA vs AIPS differences plotting issues: AIPS export gives antenna names as numbers in ASCII, makes comparing very difficult; ongoing. There was a NAEIC fire that took ~ day and a half to put out. Worked on VLBI SKA era talk, conference this week, and finalizing NTI course.

Paul: Update on Petabuff: not only 25 Gbps cards missing, turns out SCSI cards also missing; delivery ~Apr timeframe more likely. Fringe test w/ GMRT today: not all sfxc-k* nodes working yet (k1, k2), need to figure out why (have 10 Gbps copper, w/ layer 2 link, no pkts though). Bad optics: now monitored in Zabbix, last Fri link to microblades started flapping ~minute time scale, now dead; want to ship as many dodgy optics back as possible, Q: can have cluster on single 10 Gbps? [MarkK:] As long as no 4 Gbps e-VLBI should be ok. Decision: keep links to microblades double for sufficient e-VLBI bandwidth; i, j, l nodes req'd for 4 Gbps, k nodes are fine w/ single 10 Gbps; at the moment looking at 50% #FAIL rate for the optics. Zabbix knowledge improved, still love/hate opinion. Monthly scrub that ran over the weekend: no casualties so far (after having checked that the scrub really ran).

BobE: attended TOG. OlgaB found bug in ANTABeditor: use astropy and find single channel gives scalar, > 1 channel gives array (fixed). Add error in NorthStar e-Merlin justification (too long no JAVA; string comparison uses "equals" i.s.o. "==" operator); renaming Merlin to e-Merlin in places where this hasn't happened yet. At e-VLBI this week will retry udpsnor protocol, want MPC test too? [MarkK:] if there's time: yes please. Not much progress on NorthStar on new system and taking over current NorthStar server maintenance.

Aard: attended TOG, evn-monitor talk + demo and got useful discussion out of that. Updated Jupytercasa, latest pyvo version

breaks stuff (".getdata()" gives error, pyvo v1.1 ok, v1.2 not) and old pyvo w/ new astropy also doesn't work. Option for setting sfxc output buffer size is very important for MPC; if size < one full integration, corr will hang; Q: how to set this option? runjob can compute, or use sfxc-gui to set? Outcome: provide computation details to BobE, runjob can have input field: empty use computed size, non-empty to override / set for specific use cases. Attending VLBI SKA era conf this week. Got mail from KenziN: could sfxc read PSRDADA fmt? Is complex sampled data ... [MarkK:] is on ToDo list for long time, would like known-to-work data in both real + cplx fmt to test with; implementing support shouldn't be too difficult. [PaulB:] Can give you DT complex data (=native), converted to real data has demonstrated fringes. Continued work on sfxc paper.