ZWURM, 14-12-2020 14:00 (ZWURM through Zoom because of #COVID19 house quarantaine/wk40)

Present eBob, Aard, Des, Paul, Ilse, Mark, Harro

Mark: Last week CASA/VLBI coordination meeting discussed open tickets; CASA release slips into Jan 2021; validation of fix of tickets bottleneck — maybe discuss with BrianG or JenD; per-scan interpolation discussed with GeorgeM: seems ok, will polish up and progress in current direction, won't be in upcoming release. Tsys fixes: script will complain about stations missing bands and write negative numbers instead of stopping parsing; neg. Tsys not 100% standard compliant: ALMA writes this in MS but we need to verify if AIPS handles them OK; remarkable: with NaN in SPW#0 -> observe fringe issue in SPW#7, after fix fringe flagged in SPW#0 -> in unfixed version something else going on. Attended EHT meeting, can't say anything about it, HOPS remains popular in US of A — CfA/MIT Haystack working on ngHOPS to address VGOS data (and possibly EHT too). Attended VEX2 telecon, some outstanding issues — some will be skipped for VEX2 standard (don't impact standard), GEO support and phase-ref observations stopping recording between scans or not — the latter is an issue that BobC, BobE, Mark, [CormacR, EdH] need to understand+discuss: might be SCHED/VEX mixing issues [Will start internal discussion on Mattermost first], proposal to use INTENT for this and tentative schedule to have last VEX2 public comment period starting halfway Jan 2021].

Des: Attended parallel Python course, went a tad slower than expected, learned basics of numba and dask. Investigated MichaelJ "crash" — turns out application requires more memory than available in machine: no leak but fix needs to be addressed at other level; open tickets submitted for validation. Will work on PaperDatabase to produce working version allowing ZsoltP to vet new-found entries monthly in stead of whole year in one go. Attended notebooks & archives meeting; PaulB will explain the issue with code.jive.eu so can start programmin' some "go".

Aard: Attended notebooks & archives meeting, did preparations. Created a test for the sfxc test suite! plotcal replacement pretty much done, polishing; dropped a few params that plotcal supported (matplotlib related), allow lists-of-values and datetime objects where useful whilst plotcal allows strings only, will demo in NewYear's ZWURM.

Ilse: attended EHT meeting and last preparations for RadioCameraInitiative presentation (presentation went well, got good feedback in mail); BjornE asked if casa6/plotms (mis)behaves too, will investigate and may need to create a feature request or bug report [asking plotms for multiple plots but generate one png could be seen as inconsistent request and if plotms needs to support this should be feature request]. Restarted spectral line work with OlgaB but is more difficult than expected. Experimenting with notebook versioning + git: local branch push, can't sync w/ remote [HarroV: use flag whilst pushing to remote; Mark: most git versions do this

automatically — summary: be aware of special push being necessary].
Asked to look into plots comparing fluxes for EHT targets (can't say
more) but will look into this, may be able to use existing
comparison code. Comparing AIPS/CASA phase-for-phase difficult since
flags not same across both programs, suggestion IvanMV: make MS out
of both and compare there — now same order but flags still
different.

Bob: Worked briefly on NorthStar changes, deadline now at 4UT
afternoon in stead of midnight (saves BobC midnight last-minute-
before-deadline fixes). BertH called: move data from disk 2
flexbuff, add to database, but forgot to restart runjob — database
not reread, doesn't see new location of data -> problems. ANTAB
editor for multimode data not fixed yet, work in progress.

Paul: the VO server was rackmounted after help from the workshop
(required a milling cutter to make rack-mount kit fit), need to
think about security model for this machine (LDAP? put in
DMZ?, ...). Can start doing WR tests in basement again: MartijnT
moved dumped furniture out of the way. dop101 in rack, is 100 G
network maintenance/monitoring machine. LDAP accounts for support
scientists and the test-VM for gitea, after checking w/ users, now
shut down. Working on EB081A multi phase center/phase ref experiment
w/ primary beam calibration; good results. [Post-ZWURM meeting on
applying primary beam cal: can't do it with how FITS files now
distributed. But if FITS files recreated so primary beam cal works,
can't transfer phase ref solutions — will raise in next year
vlcoffee]