ZWURM, 23-03-2020 14:00 (WURM through Zoom because of #COVID19 house quarantaine/wk3)

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

Mark: involved in several telecons (ESCAPE WP3/4 joint). Will inspect and document reusable VO mimetypes for the EOSC software/ service catalogue, to specify what input/output formats certain software support. Continued work on validating GeorgeM's CASA fixes one pol flagged, do not automatically throw away other pol) and SpectralWindowMapping bug. Should be in next release. MS concatenation bug fix validation delayed because of last minute request to validate on ALMA dataset. Will bring up in next Wednesday CASA VLBI meeting w/ NRAO. EHT telecon result: uvw coord problems still not fixed (they pulled a Harro: computing uvw coordinates yourself upon MS writing - i.e. you're doing it wrong). Will investigate Python script to extract uvw coordinates from mark4 data files and help them along. Working on gain curves in CASA since that is now, allegedly, "the stumbling block" for VLBA users to start using CASA.

Harro: finally had some time to work on getting a git-based v3.0.0 release of jive5ab. v3.0.0-rc1 was distributed through a limited set of interested testers and some feedback (compilation issues) already received.

Des: dotting the i's for CASA validation; one test is in a branch and the plotting of results in TEC units is being worked on. db0 file system is full, needs immediate attention. Once fixed, will continue to incorporate Joeri/Zsolt method of article retrieval into rewritten Huib tool (which already does H-index and possible other interesting metrics).

Aard: Jupyterhub problems continue, docker spawner ignores configured IP address to use and defaults to localhost (which is bad in this case). The new coherent re-dedispersion (RFI@DM=0 fix) is now a configurable option in stead of a hack. Correlator hangs were observed during last week's e-VLBI (rainy weights) - unsure what trigger is. 99% data loss from Sv /might/ be one, although also seems to occur when Sv thrown out of job - possibly recorded e-VLBI is trigger. Can be simulated so will do that. m-nodes sometimes have a connectivity problem to out.sfxc at startup. Major effect on production, prio#1. FranzK reported a problem w/ very high rates - noticed EOP section diffs between own tool produced and those used in correlation [side discussion w/ Mark: EOPs are really EOP(t, T) - it can make a difference when EOPs for time t are sampled, for abs(t-T) <= ~days EOP(t,T) and EOP(t,T') may differ]. Will check own script and log2vex production code for differences too.

Paul: working on db0 filesystem 100%. Two tables are Really Big(tm) - 5GB + 3GB. [side discussion: eBob: one table only grows, the other should grow + shrink]. Installed new firmware received from Mellanox for the switches, seems to work fine so far. Working on LTO8 drive quote [action Harro: check if we can still accept deliveries for

JIVE/ASTRON].

Ilse: continuing JUMPING JIVE reporting. The EAS SOC discussed cancellation or not, chances are NAC will be cancelled and possibly will take EAS down with it. New laptop delivered/installation took time but is working mostly fine already. EHT townhall meeting results: 2020 observing campaign cancelled because of #COVID-19, there was a positive presentation about CASA VLBI pipeline. Was asked about remote summer student programme: no, because goal of programme is not knowledge transfer but meeting people and working at a real institute. Attended ESCAPE WP3/FG5 "innovative workflows", interesting but not so relevant as focus is on grav. wave science and not the technical "how to write innovative workflows".

eBob: working on db0 file system 100%. Together with Des will start to look at db schema to see if the largest table (cj_station_subbands) can be better normalized [suggestion Mark: 99% of jobs use all subbands so an efficient description of that might be useful, also only the subbands of the setup-ref-station are what is actually used by SFXC]. Need to make Mark6's operational, hopefully all three because twelve VLBA packs arrive and access to the building for switching disk packs is really really limited. The ANTAB fits file reader is almost releasable. Working with Martin to get Arecibo e-shipping going. BenitoM reported a pySCHED problem (cause: illustrious SCHED feature with terminating "/" on last line – YT not at all idea what the problem is), will change pySCHED error into warning.