ZWURM, 05-10-2020 14:00 (ZWURM through Zoom because of #COVID19 house quarantaine/wk30)

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

Paul: code.jive.eu now has gitea install; certificate working for ssh/https clone+push. If repo made public — really public: anyone can push. Logged-in JIVE users see all repos. To enable ssh clone/ push use `git@code.jive.eu` and attach ssh key to your gitea user account. Plan to be @WSRT tomorrow to find out trantor detailed chassis/machine type. marcopolo SATA-DOMs have arrived, will install shortly. Working on Ilse's CASA Workshop batch-Mattermost-add request. Cooling will be down in week 43 — what hardware needed for ftp fringe test? [Mark: sfxc k-nodes, out.sfxc, some other].

Aard: < 1us integration time artefacts solved by not doing delay compensation (want autocorrelations anyway); distributed to KenziN., no more details seen than in 1us t_int data. Crashes with MPC, n_subint > 1: weird state; data disappears: corr node waiting for data whilst input node claims everything sent. [Mark: MPC w/ n_subints > 1 won't work so don't do it]. Re new CASA release: imported wrong casa class to override in wrapper; turns out whole AIPS "go" mechanism rewritten. Consensus reached: for Jupyternotebook AIPS go interface = don't go there, so remove that functionality from the wrapper.

Des: experienced tremendous network problems connecting to desktop machine @JIVE, almost unable to get any work done. Fall-out: Ubuntu upgraded -> xfce shows no title bars on windows if connecting through VNC (known but unfixed bug in Ubuntu 19.04/20.04!). Acquired account on Radboud Uni machine, now trying to find out how to reproduce bug. Have fix for solution interval coded according to GeorgeM's ideas — it's not a proper solution (overlapping solution intervals) but at least the fringefit doesn't stop. Proper solution would require casacore surgery: takes (very) long time; with current sol'n fix can be in the next release. Spent time in local EHT and CASA/VLBI meeting. Re: CASA/VLBI: tickets require validation by someone that is NOT the code author, asked Zsolt for support.

eBob: Benito+Zsolt report pySCHED catalog merging probs, turned out to be PEBKAC: $SCHED environment was set. Zsolt working on e-Merlin 1 bit schedule -> double bandwith -> pySCHED check too strict (fixed). Proposal deadline approaching, dr Bob more NorthStar requests: strip whitespace from invitation email address, Benito: remove checkbox for 16 station limit correlation, request for toggle to show only proposals that are 'under review'. Did Fila10G test with WSRT: worked in one go, forgot to set "udps" as receiving net_protocol (FiLa10G shares sequence number counter over N output data streams). Will change gui to autodetect. May try fringe test after tomorrow's e-VLBI finishes on Wednesday for real fringe test, if some stations can afford to keep running a bit longer.

Ilse: Spent lot of time on analysing Jun's data (amplitude diff between AIPS/CASA). Interesting data set for AIPS/CASA comparison —

Jun = expert and uses that; use case may illustrate needs of black-belt VLBI users for CASA functionality that still needs to be developed. BenitoM sais: please look/save carefully — may need for EVN data reduction guide. Also EHT network calibration: understand it now, poorly documented: basically in the published paper but has changed since then already. EAS proposal was submitted. CASA workshop closing in, preliminary program done and distributed to teachers. Spectral line pipeline development with OlgaB progressing, but slowly; some AIPS functionality used in OlgaB ParselTongue script cannot be transplanted 1:1 to CASA. This week will also have national diversity committee meeting.

Mark: from the CASA/VLBI meeting: gaincurve code tests verified, still require validation (by a VLBA staff member); msconcat now also concats gaincurves (done in casacore — update likely not in 5.8/6.2 because of long casacore workflow time, impact of not in 5.8/6.2 not high: msconcat typically done after amp cal); EOP ticket: delayed, casacore issues taken too much time and this requires a standalone solution anyway (idea is to re-run CALC but linking CALC into casacore ... does not sound appealing); wideband fringefit ticket may or may not make it into the 5.8/6.2 release depending on if MichaelJ can verify; VLBA staff encouraged to register for CASA workshop; freq axis in calibration tables (ticket GeorgeM) being worked on to prevent frequency mismatch; BillC claims Py3 version of Obit is working — don't know impact on ParselTongue. Attended two VO meetings; MattiaM (ASTRON) presented tool to analyze u,v plot from realistic LOFAR observation and produce characterisation (ellipticity, filling factor, histogram) to assess useability for imaging of visibility dataset; downloaded code to adapt for EVN but uses scikit-learn (machine learning toolkit!) and an SKA package for u,v,w computation (i.e. going through dependency hell): idea is to produce these plots from VEX file. KatharinaL (CDS)'s Radio Data BoF proposal for ADASS XXX (this November) was accepted.