WURM, 06-05-2024 13:00 CEST WURMng Marjolein's office

Present Des, Aard, Paul, Bob, Mark, Marjolein

Plenary points:
- due to travel and public holiday next two WURMs will be dud, last one is strategy, so what to do? [after discussion: look for rescheduling to Tuesday - action Marjo]
- conference attendance discussed
- proposal for weekly vlcoffee on Tue after lunch received. The proposal was accepted, proviso that they do not turn into endless discussions.

Paul: working on mailman issues - message sent by script ends up as "winmail.dat" attachment (for EVN Seminar mailing list). trantor2 to Deb12+: run into LDAP config issues, will be ordering fibers &cet this week, plan to install @WSRT w/ Wybren. Upgrading switches w/ double connection to ASTRON: ongoing. WhiteRabbit paper nearly finished, expect submission this month. dop288 decommissioning can start.

Mark: CASA VLBI meeting: EOP corrections verified (JustinL changed EOPs by excessive amount, CASA EOP corr can recover large part of the signal, AIPS not at all); importfitsidi ticket: srs bug in code found: second import (re)uses some - apparently - cached info. VO indexing: only large MFC projects left, probably will cheat by propagating FoV & other meta data from primary phase center to all subsidiary field centers. Made room in sfxc header for git version and backported fast VDIF decoder into (test) sfxc version, not prod => necessitates switching to "-std=c++11" and now output subtly different ...

Aard: had to fix several Python scripts to handle sfxc output file header change, parsing was wrong. Discussion on pulsar binning weights. JunY provided 8-bit DBBC3 data and 2-bit DBBC2 data in a PRECISE experiment, revealed integer delay compensation bug in code; after fix results very comparable: SNR not huge diff because only one end of the baseline is 8-bit data; will organise new test, and heard that GinoT will provide new f/w producing offset-binary 8-bit iso 2's complement.

Des: made old feedback, already present in the db, visible by reverse-engineering the sessions from the db content itself. Alternative weighting scheme: script did run but didn't find (or fix) problems (no error) so need to check up w/ SumaM. MichaelJ visit: worried about CASA fringe fit memory usage - really should be looked into [although options may be limited]; Sebastian* reports problem with importing a Python package pyfits [discussion: probably should be using astropy.fits but further discussion seems to gravitate towards that using pyfits should be possible].

Bob: DBBC3 formatter test: Ys and Santa Maria interested as well as Nt and Tr. BobC correlating multiple data streams, probs w/ control file+VEX2 [AOB topic], $THREAD and $DATASTREAMS sections not in same

order (pySCHED), but can be fixed; control file uses VEX data
stream, channel links, on disk should use the data stream label.

AOB:
— mailing list option "Munge From" to handle DMARC issues: jive.eu
mailserver(s) configured to DMARC fail=reject policy by ICT, breaks
mailing lists. Individual mailing lists must take action to work
around. Action Marjo to change EVN-TOG and evntech lists.

— VEX2 support: should use label from VEX2 file to append to file /
recording name; intended use of the optional label field could be
documented better — also discuss at IVTW w/ Ed?

— discussion on correct handling / definition of pulsar bin weight:
probably best to stick to the actual statistical definition (#-of-
samples / #-of-maximum-possible samples, even though that gets to be
small for pulsar bin), importfitsidi will compute (correct) sigma
value based on that then.