WURM, 5-7-2018, 11.30

present eBob, Mark, Harro, Wybren, Aard, Des, Arpad

eBob: fixed runjob for the Garrett expt, jobs should not be too big, as they will not fit on the backup tapes. The expt has been done btw. Log2vex for geo experiments gives a problem. Probably best to rewrite the whole thing, has to be done at one time anyway. DBBC firmwares in SCHED, talked to dr Bob. Profiling SCHED, still too slow. Mark thinks it is the parsing of the catalogs. Arpad: send Cormac an email explaining what he is doing for DBBC.

Mark: enabled multiple inputs per station, could also be useful for eMerlin, who put different freq chunks in different files. Modified parseltongue for arch linux. Working a bit on SCHED, py 2 vs 3 issues. Catalog files should really be converted to db. Some work on CASA

Harro: etransfer client now lists number of bytes plus duration of transfer, useful for determining throughput. Wasted a day on a bug in CASA/Casacore that Michael reported. Fixed. j2ms2 very slow, still under investigation, Garrett expt would take 60 days. Scales with # scans, # centers, both? Martin found that last MB of file transfers were missing from Shanghai, nearly full flexbuff, seems to slow down to such a degree that programme decides nothing changes anymore, finished. Changed timing. To empty flexbuff no problem. Longer wait, more attempts. Also found that on a flexbuff where 2 out of 6 mountspoints were nearly full, dirs were made but no data written. vbsrm would not throw away empty dirs, now does, if all dirs really empty. Rewrite of jplotter, now handles labels etc much better. Possible to turn on/off headers/footers with meta data, important for using plots for publications. Fixed defect in averaging (found by Michael). Need meeting with Zsolt and supp scientists to discuss the data flow after correlation. Some response from meerkat, got the programma that converts spead single dish data, stops after any packet is missing.

Wybren: made file transfer server, worked, changed to nextcloud. Paul does not want VM, so now using Columbus. Had to move jop83. WSRT rack needs to be plugged over to UPS. Zabbix: LDAP now works, but have to add users by hand. Now that 700 phase center project done can go on fixing use of new hardware for eVLBI. Has been teaching Marting about zfs and network.

Aard: paper on spectral kurtosis has been submitted. CASA 5.3 broke loads of stuff, needed to rewrite wrapper, but in fact everything is

now much better. Matplotlib has also changed, more work needed. Correlation speed is still limited by speed of mark5, could be optimised, at least to 1.2 Gbps? Might be worthwhile by now.

Des: python prototype with dispersive fringe fitting. Seems to work reasonably well, promising. Moving features of the development branch to the official version (windowing, convergence criteria).

Harro: found C-written PGPLOT drop-in replacement. Also found some bugs, but may be really useful, work basically. Include in pySCHED?