

WURM, 2-12-2019 14:00

Present Ilse, Aard, Des, eBob, Harro

Ilse: been working with the support staff about EVN pipeline, sometimes a bit difficult. The SOC for the EAS is now complete, a telecon will be held and speakers will be invited. Next week there will be the CASA mini busyweek, partly in Nijmegen and partly here; Kazi & Michael Janßen will visit JIVE.

Aard: eVLBI freezes found & fixed, good old-fashioned deadlock between large number spectral channels (multiple writes to output node) and waiting for MPI broadcast at start of scan – both in the same loop. Now two loops in trunk, not stable (wait for Mark to return). At the same time some pthread() legacy from Nico appeared – he used pthread\_cancel() which is not very nice. However, pthread\_setcancelstate(PTHREAD\_CANCEL\_DISABLE) didn't work; they're still cancelled. CASA6 builds now mostly OK, apart from plotms. Working on the follow-up SFXC paper.

Des: the code freeze for CASA6 is happening halfway through December and the dispersive fringe fitter should be in there. Aard's CASA6 knowledge helps a lot. Expect this deadline to be met.

eBob: pySCHED version with INTENTS for VEX2 is now done. Thinking about adding support for the eMerlin stations to avoid hand-crafting for those. Investigating Py2 => Py3 changes for the code on CCS; 2to3 tool gives a diff of ~10k LOC. Raised the antabfs discussion, continued as plenary:

After consulting with support staff, Benito wrote a big document about what the antabfs program should do: plotting, identifying issues, correcting issues or insert nominal values. Is a big chunk of work but a useful investment of our group's time; processing the antabs takes about 50% of their time. There must be scope to generate the calibration files for FITS as well as MeasurementSet. Project too big for one person.