

WURM, 16-12-2019 14:00

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

Mark: Mostly CASA work: telecon w/ GeorgeM., building CASA5 packages under CASA6, getting MS concat bugfix PR accepted by GervD or TammoJanD. Spent time analyzing the ANTABFS document written by BenitoM.

Paul: The network-test script was exercised over the weekend, running iperf tests between flexbuffs, old cluster nodes and new cluster nodes, using left or right fibers. Very, very useful diagnostics; can find problematic ethernet cards, fibers or firmwares. The 100Gbps upgrade of ASTRON's connectivity to SURFnet was approved by ASTRON's ZMT, will happen in 2020. Together with operators and operations group will decide to remove Mark5 external connectivity (in such a way that it can be reinstated very quickly) - very old O/S is a security risk - and move some of this to the Mark6s. Started on configuring a VM for hosting the CRAF RedMine server for WaleedM.

eBob: Implement pySCHED support for e-Merlin outstations such that no manual editing is necessary anymore. Working on the Py2 => Py3 upgrade for CCS Python code.

Ilse: CASA EHT busy midweek: succeeded in installing rPICARD in Docker to load EVN data but runs very slow. Make it run on SFXC node makes it run a lot faster. Found bug in rPICARD, MichaelJ is fixing. The EAS special session is progressing; unfortunately will be parallel with either GAIA, gravitational waves or star formation. SOC had recent telecon, registration for EAS will open this week. Will be attending JUMPING JIVE exec/board meeting this week. The end report for the CASA User Committee requires some work as well, as well as the document for the EVN pipeline requirements.

Aard: Spent a lot of time on the SFXC paper; understanding filterbanks, writing simulation code and making plots for the paper. On the CASA github there's a new tagged release CASA 5.6.3, made a new JupyterCASA based on this version. A new release of SFXC has now been created: 5.0, containing sliced integrations and more. Plans to finish the SFXC paper and create an AJPOD for the 8 Gbps test results.

Des: fringe-fit branches are ready for checking in into the next CASA release, although it still needs CASA5 packages to test with. With help from Mark they are built from the CASA6 code base. The SNR from the least-squares solver is not good, which needs to be fixed because MichaelJ (wants to) use(s) these results in the rPICARD pipeline. Built, in a heroic effort(\*), the SYMBA Singularity image; it is an amalgamation of rPICARD + (patched by MichaelJ: corr. model handling and other things) MeqSilhouette. Next up is trying to run it - simulate and pipeline data. (\*) By default Singularity assumes you have Inf storage space in \${HOME}, needs tweaking (two environment variables) to divert its attention to not \${HOME}.