

1st April 2015

Attending: Scott Daniel, Peter Yoachim, Michael Reuter, Darko Jevremovic, Cathy Petry, Kem Cook, Rahul Biswas, Simon Krughoff, Veljko Vujcic, Chris Walter, Brittan Fiore-Silvfast, Lynne Jones

This weeks phonecon will be run by Scott and will cover

- demo of DDS (Michael)
 - how will it scale to running at 1000x times realtime
 - DDS = how components of the control system will communicate with each other over ethernet. Uses "publish/subscribe" formalism.
 - Only runs on CentOS 7 right now
 - Has very specific firewall requirements (not a problem if we just run it on Docker containers; but if people want to eups install it locally, they will have to change their firewall configuration)
 - There seems to be a limitation on rate. Can only push messages out every 30 milliseconds (or slower) if you want the subscriber to receive all of the messages
 - Kem thinks this could be a problem for passing data around inside of the scheduler.
 - Michael will talk to David Mills about this. Maybe there is an easy way to fix it.
 - Kem thinks Srinu has a fast control loop for guiding and seeing; maybe we can learn from his experience.
 - Need another CentOS 7 machine to test machine-to-machine communication
 - David Mills is working on making DDS compatible with other OSs
- discussion of new baseline cadence run (Kem, Lynne, Zeljko)—[brief description of 3.61 & enigma_1189](#)
 - can we sign off on the new baseline for Zeljko to present to the CCB
 - new reference run more repeatable than old reference run
 - proposals refactored to better enable deep drilling fields as compared to old version
 - seem to have eliminated end-of-survey "panic" (rapidly changing filters and position during last year)
 - Lynne thinks enigma_1189 is better than OpSim3_61: it has a more realistic down time distribution
 - From Lynne:
 - Tusken has some MAF analysis results from enigma_1189 :
 - the "scheduler validation" metrics (on opsim field pointings, not healpix grid .. looks at distributions etc relevant for scheduler)
<http://tusken.astro.washington.edu:8080/multiColor?runId=15>
 - the "science performance" metrics (on healpix grids, looks at more specific science goals .. just things described in SRD so far)
<http://tusken.astro.washington.edu:8080/allMetricResults?runId=17>

Other business

OpSim stand-ups will be 10am Pacific Time on Mondays and Thursdays