NRAO meeting proposal

Other tasks that need to be addressed.

1. Zippable CASA
2. MOU about UVA UDC.
3. OODT – Chris Mattman - JPL
4. Parallel CASA

Task one – the enabler – Run a CASA pipeline using the XCG

Assumptions:

The XCG is up and operational.

There is sufficient bandwidth between Edgemont road and XCG

Steps

1. Create a zippable CASA including pipeline
2. Extended access control lists at NRAO examined
3. Deploy a Genesis II container on a GUI at Edgemont Rd
   1. Two user ids
   2. Access to the needed luster file system
   3. Export the source data directories for the pipeline execution
   4. Export the target directories (where the results will go)
   5. Link into global namespace
4. Create a JSDL to run the pipeline, including staging
5. Create a user ids for the NRAO “test user”
6. Qsub the job, check results.

Resources and responsibilities:

UVA will provide:

1. Permission to use XCG resources including but not limited Fir, CS clusters, Astronomy cluster.
2. Vanamala V. and Anindya P. will work with NRAO personnel directed by James Robnett on tasks 2,-5.
3. Will provide their own travel expenses and personnel costs.

NRAO will provide

1. A zippable CASA that includes the pipeline for execution on Linux.
2. Access to necessary facilities to install and read/write data staging.
3. A “hole” in the firewall to allow incoming SSL connections to a specific host and port.
4. Personnel as needed.
5. Will provide their own travel expenses and personnel costs.

Success criteria:

It runs, the results are the same as running locally at NRAO.

Dates (all in 2013):

July 15-30 Grid container installed at NRAO and exports done.

July 30 Zippable pipeline

August 1-30 Execution, testing, write-up of experience.

Future steps – assuming first step complete

Bilateral execution: A BES at Edgemont road and Socorro and jobs from XCG run there and vice versa, and a NRAO-org specific grid queue – an astronomy shared virtual compute facility.

Workflow OODT, DAGMAN, Kepler

Archive interface