Q1 2010 Report ALBiUS. ESO

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List of working documents –

Reports about CASA tests (DP)

List of past activities –

1. Dirk Petry, is the developer for ALBiUS.
2. DP developed within CASA routines to convert MS CASA format into ALMA ASDM format
3. DP collected information on the existing stump of the FITS IDI   interface in CASA. Scanned the documentation for FITS IDI   including the recent update from March 22.
4. Performed detailed CASA testing on version 3.0.0.
5. Read publications of wide field imaging.

Meetings attended –
1. ESO internal meetings: February 26th , March 26th.
2. RAL: meetings at Jodrell Bank (to discuss JBCA work on direction-dependent calibration; March 31) and Oxford (new calibration algorithms and CASA HPC; April 1st).

Issues
We see the need for improved communications between ESO and JIVE at working level and a more active management (e.g. circulation of meeting minutes, responses to identified action items).

Red flags
none

Workplan for 2010:

ESO deliverables for interoperability and direction-dependent calibration tasks. The primary contribution to the interoperability task will be tasks to translate from FITS-IDI to and from the CASA measurement set format. This will be the mechanism for bulk data conversion for the use cases (EVN, VLBA, e-MERLIN) identified so far. The deliverable for mosaic imaging is likely to be incorporation of CASA wide-field algorithms (specifically A-projection) in mosaic software. This is something which NRAO has identified as a a need, and which will be required for ALMA, EVLA and e-MERLIN.

Forward plan

3 months: Work on FITS-IDI to and from MS conversion. Develop use cases for interoperability task. Evaluate wide-field imaging software in first public CASA release and discuss mosaic implementation with NRAO CASA group.

6 months: Meetings of the developers to update and discuss project progress. Initial tests of CASA/AIPS interoperability. Report on current and proposed mosaic imaging software.

Deliverables/milestones

Report on mosaic software (month 12)

Number of persons working on JRA

4 (PA, RAL, HR, DP)
person-hours:
            Q1 : 230