Interoperability / Portable Algorithms

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Objective

Combined data reduction environment

Utilise features of Casa and Aips to allow strong points of both packages to be used in a single environment

Outline

Casa / AIPS combined environment

Data compatibility

Calibration transfer

Delay / rate, Correlator models

Combined data format

Data distribution

Casa / AIPS

Casapy / ParselTongue

Casapy – C / Embedded Python

ParselTongue – Shell script / Python

Conversion

Data management

Data Compatibility

Casa's FITS-IDI loader

    Largely independent on other deliverables

    Could be implemented by partner institute.

Calibration Transfer

Conversion of calibration data between Aips tables and Casa MS table data

Calibration models differ substantially

Report on compatibility of models

Implementation of conversion routines

Delay & Rate, Correlator model

Report on Casa's Delay & Rate handling wrt Aips' implementation

Report on potential enhancements to Casa's / MS to allow better handling of correlator model data.

Compatible Data Formats

Investigation into usefulness of HDF5 data format for data interchange.

- Potential problem for Aips

Data distribution

Investigate ability to distribute data while converting / transferring calibration.