The DiFX Documentation Pages

Getting Started with DiFX

If you have not already, please join the DiFX-Users mailing list - to do this, go to
https://listmgr.nrao.edu/mailman/listinfo/difx-users and sign up.

You might find it enlightening to browse the SVN source tree on Trac.

Read the Reference Manual which has a lot of detail about the NRAO installation of DiFX and a lot of
information about the helper programs for configuring the correlator and managing the output.

The (now-defunct) forum on the old DiFX-users Google Groups page
(https://groups.google.com/forum/#!forum/difx-users) might also have useful information, so feel free
to swing past there and search old threads for answers to questions you might have.

Installing and running DiFX

Installation

Instructions for running DiFX

Troubleshooting

Benchmarking

Advanced considerations for running DIFX

How to correlate using different binaries on different cluster members

How to correlate directly off a Mark5 unit

How to achieve very high spectral resolution

How to correlate targets which are near-field objects such as spacecraft

Description of how to run benchmarking of DiFX

A description of running pulsar observations with DiFX

Descriptions of individual packages and libraries

mpifxcorr documentation

vex2difx documentation

difx2fits documentation

difx2mark4 and hops documentation

difxfilterbank documentation

difx_monitor documentation

Utilities documentation

difxmessage logging information

vdifio vdif access libraries

espresso (scripts for managing file based correlation) documentation

difxdb (database extension of difx)

startdifx documentation

polconvert documentation

Automatically generated documentation

Other useful collections of information

Subversion tips and tricks

Description of correlator amplitude scaling

DiFX2.0 explained - the differences between DiFX1.5 and DiFX2.0

File Descriptions

Description of the cluster definition file

A description of the way channelisation works for upper and lower sideband data

MPI related issues

Known bugs

Tips and Tricks

Notes on optimizing the machine file

Phase-cal extraction in DiFX

Using DiFX with non-power of two FFTs (beta!)

The DiFX release process (how to tag)

Chris' summary of routine call sequence

Using plplot and installation instructions

Current status of VDIF support in DiFX

Plot DiFX extracted pulse cal data

Material for DiFX exercises at the IVS school 2016

Auxilliary documentation

vex documentation

FITS documentation

Mark5 documentation

fuseMK5 installation recipe

Out of date documentation

The DiFX memory size/datarate calculator (now available as a C program in the difxio library)

Photos of the DiFX layout, drawn on a whiteboard in Bonn