

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)

[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 pplot 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](#)

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