

FDT Notes

FDT (Fast Data Transfer) software is under development at CERN as part of the monalisa project. The main FDT page is [here](#). Documentation can be found [here](#).

DYNES specific FDT documentation can be found in the [FDTAgent for DYNES User Manual](#).

From the FDT web site:

Fast Data Transfer - FDT

FDT is an Application for Efficient Data Transfers which is capable of reading and writing at disk speed over wide area networks (with standard TCP). It is written in Java, runs on all major platforms and it is easy to use.

FDT is based on an asynchronous, flexible multithreaded system and is using the capabilities of the Java NIO libraries. Its main features are:

- Streams a dataset (list of files) continuously, using a managed pool of buffers through one or more TCP sockets.
- Uses independent threads to read and write on each physical device
- Transfers data in parallel on multiple TCP streams, when necessary
- Uses appropriate-sized buffers for disk I/O and for the network
- Restores the files from buffers asynchronously
- Resumes a file transfer session without loss, when needed

FDT can be used to stream a large set of files across the network, so that a large dataset composed of thousands of files can be sent or received at full speed, without the network transfer restarting between files.

