

Introduction to DoFTP

Version: 2012.081

Category: PASSCAL software, common tools used in passive source data processing

Objective: -Tool to submit data to IRIS/PASSCAL Instrument Center using a gui to send the data directly to our in-house Quality Control System.

Introduction

DoFTP is an improved tool that compiles into one a couple of tools from previous releases. This tool is designed to create tar files and send MSED data with and its dataless via FTP to IRIS/PASSCAL Instrument Center.

Requirements

- At least Python 2.4
- Tcl/Tk, Tkinter (GUI), and Pmw (when sending data partially)
- Solaris 9, FC Linux, and Mac OS
- DoFTP – You can download it from our software web page as part of the PASSOFT package

Installation

DoFTP 2008.038 is part of the PASSCAL SOFTWARE RELEASE, so please update your software for the proper platform from:

<http://www.passcal.nmt.edu/content/software-resources>

HOW Does DoFTP work?

- On the command line you will define the directory where you have the mseed day volumes and dataless to submit.
- When using the GUI it will allow you to browse for the directory where you have the mseed day volumes and dataless to submit.
- Create tar files and md5 (check files) from the mseed data you pointed to. The packing of the mseed files in tar files data based on two rules.
 - Each tarred file < 1.9 GB, so if the total data is larger than 1.9 GB, it will be divided into multiple tarred files.
 - Each tarred file includes one-station data.

The tar operation should be finished in a one step. Multiple operations could overwrite the files each other.

- Start an ftp session to send the data to our server at PASSCAL for quality control and delivery to the Data Management Center (DMC).
- It does not have any restrictions about how many files you have on the directory for each station.
- Does a search descending in the directory structure from where it runs to

identify mseed data.

- The only requirement to find the dataless is that this file contains on its filename the word "dataless". For PASSCAL we recommend the following convention:

NN.YY.dbname.YYYYJJJHHMM.dataless

Where:

NN is your network code

YY is the year of your data

YYYYJJJHHMM is the approximate time the file was created – year-julianday-hour-minute

- Caveat- it will create TAR files, which duplicate the volume of data on your computer, so be careful and make sure you have plenty of space.

OPTIONS USING DoFTP:

DoFTP can be use in the command line or as a GUI (con_DoFTP or as a gui_DoFTP respectively).

1.If using con_DoFTP (for console use)

Usage : <my_cpu>python con_DoFTP data_dir_name

Where data_dir_name - is the directory where all the miniseed files and dataless files are located and ready for submission.

2.If using gui_DoFTP (for console use)

usage: python gui_DoFTP



Where:

- Button "Full Operation" - creates tar files, md5 and a report to send to

IRIS/PASSCAL of all the mseed files and dataless under the directory you select to. RECOMMENDED when sending a complete service of data.

- Button "Part Operation" - creates tar files, md5 to send to IRIS/PASSCAL of some mseed files and dataless under the directory you select to. RECOMMENDED when RE-sending corrupted data during the transfer or missing files or a new dataless.
- Button "FTP Resume" - Opens an FTP session with PASSCAL to send data that have been TARED already, or resume to send the data from the last FTP broken point.
- Button "View Log" - shows the log file for this FTP session.
- Button "Help" - shows a summary of this help.
- Button "Exit" - exits this program.
- Menu "Preferences/FTP Server" - Don't change the IP and use default one. MAINLY for use of PASSCAL personnel ONLY. However, you can set the max timeout for connection with a positive integer.
- Menu "Preferences/Report Name" - If you want to submit the data multiple times on the same day, you need to select unique number for each submission. Otherwise, use the default.
- Radiobutton "FTP Active Mode/FTP Passive Mode" - Select it based on the FTP client on your computer. If you have trouble to do ftp, swap the FTP mode by using these radio buttons and try to ftp again.

OTHER SUGGESTIONS WHEN RUNNING DOFTP:

- Please DO NOT USE wireless connection to submit the data.

Note that even if the Internet cable is plugged, the connection may still go through wireless if both wired and wireless Internet are on.

- Please check Internet connection, firewall configuration and transfer time limits and other restrictions on local permissions. Most common problems are related to local configurations
- If the ftp session is interrupted or goes down during transferring please contact data_group@passcal.nmt.edu to make sure you can restart the session.

- When running DoFTP in the command line (con_DoFTP), by running:

- `con_DoFTP --help"`

You will be prompted to its options.

If any questions please contact us at: data_group@passcal.nmt.edu, we will reply to you as soon as possible.