Readme File:

https://github.com/testedminds/eztrack

Login to ICM Server

Open Terminal

ssh -p 5527 <your id>@128.220.76.216

get verification code from phone authenticator

enter jhed password (Raipur2016!)

To get the latest version of eztrack

git clone [git@github.com:testedminds/eztrack.git](mailto:git@github.com:testedminds/eztrack.git)

cd eztrack

git pull (incase someone makes changes)

git add filename

git commit (to commit that change)..then sitting in local repository

git push (pushes to remote repository in github)

sridevis-mbp:eztrack sri\_sarma$ export EZTRACK\_USER=ssarma2

sridevis-mbp:eztrack sri\_sarma$ make ssh

cd /opt/eztrack/

To transfer files between personal computer and remote server

make sftp

then login to server (See above)

getting data from server to computer

cd /opt/eztrack/data/nih

get –r nih

%to upload from computer to server (puts in current working directory)

put –r data/nih

exit (exits server)

Working with edfbrowser

change amplitude to fit 2 scale

to get onset time in absolute time

= C2 + time(0,1,57) (in excel)

Running EZTrack

**Step 1: convert edf to eeg**

move edf data into eztrack/data/edf (create an edf directory)

in eztrack folder call edf2eeg (may have to shut terminal and restrart)

for nih data –extract all signals but last

**A) Add matlab to path**

export PATH=/usr/local/sbin:/usr/local/bin:/Applications/MATLAB\_R2014b.app/bin:$PATH

**B) Make directory** for patient and seizure in output/eeg folder

mkdir pt1sz6

**C) ./edf2eeg.sh pt1sz3 butlast**

The butlast argument means to extract all but the last channel of the signals...in the EDF+ file format used by NIH, the last channel contains annotations. The script can also take the argument rest to handle EDF formats in which the first channel contains annotations, so only the rest of the channels after the first should be retained.

This will create output/eeg/pt1sz2/pt1sz2\_eeg.csv and output/eeg/pt1sz2/pt1sz2\_labels.csv.

Copy output/eeg/pt1sz2/pt1sz2\_labels.csv to data/patients/pt1sz2\_channels.csv. Edit the file to remove any channel labels that aren't in the included\_channels filter in data/patients/pt1sz2.csv.

Step 2: Create patient input files to match the EZTrack spec and save in data/patients.

For example, data/patients/pt1sz2.csv contains the following columns:

patient\_id,date,recording\_start,onset\_time,offset\_time,recording\_duration,num\_channels,included\_channels

pt1sz2,4/19/16,19:35:19,19:36:44,19:38:01,269,98,[1:36 42 43 46:54 56:69 72:95]

Step 3: Create copped labels file

after converting to EEG create cropped labels file…and rename pt1sz2\_labels.csv (save inside same directory as pt1sz2\_all\_labels.csv) then run eztrack!

Step 4: Run eztrack in main eztrack directory

./eztrack-main pt1sz2

%may need to do this first

brew install coreutils

My Runtime:

1)

export PATH=/usr/local/sbin:/usr/local/bin:/Applications/MATLAB\_R2015a.app/bin:$PATH

2)

./edf2eeg.sh <pt1sz2> butlast

- This creates a directory inside output/eeg/ that is the <pt1sz2>, and adds an eeg.csv and labels.csv file.

3)

NIH files are in EDF+D vs. EDF+C. Use "Tools->Convert EDF+D to EDF+C" in EDFbrowser to open the files.

Channels to filter out include DC, grounds, channels with missing labels, or channels with noise. "Amplitude -> Fit to Pane" and "Timescale -> 10s/page" are useful settings when viewing channels.

Open up EDFbrowser and open up the corresponding seizure .edf file.

4) Run EZTrack

./eztrack-main pt1sz2