```
Manual of Frontera
   You have local computer(Local machine)
   On terminal
   $ front (followed by password and authentication)
    #takes you on frontera/home109804/ramchandra58088
   Now you have frontera computer i.e. Remote Mechine
   #make a directory on Remote machine
  $ mkdir sk01
   #Now copy the sk01.zip file to frontera sk01 directory
  -On local Machine
  scp sk01.zip ramchandra58088@frontera.tacc.utexas.edu:/home1/09804/$
   ramchandra58088/sk01/
      Remote Machine
   #Here you need to use your ID and check your home directory with
   $ pwd #check current directory i.e. where are you
   $ cd sk01
         #gives list on cd #shows sk01.unziph led
   unzip sk01.zip # unziping it gives another sk01 folder
                                                                             moving files
to Hone sko1
   It #list out all unzip files
   rm -rf MACOSX # remove its file and folder at a time

ightarrow cd sk01 # get in sk01
\Rightarrow mv * ../. # moves all files after getting out from it to the new sk01
🛶 cd .. # just get out
$ rm -rf sk01 # remove all files and folder of sk01
   $ vi comp #open comp
   #add two lines at the top (I am confusing we just make 2 lines space at top or something oth
*on Frontera( copy paste the complier command line)
   $ mpif90 -r8 -02 -o xskh03 sk03main.f # file gets compile and make excutable file)
   lt
        #(list all the items)
```

```
#xsk03main (excutable) is created
  #modify sk03.job
  vi sk03.job # open the job file
                      (adding temporary disk for large files)
  #at temporary disk
  tmp
  mkdir sk03 #making sko3 as temporary directory
  #for diagnostics
  #diag.zip need to move to Frontera sk01
  scp ramchandra58088@frontera...../sk01 it must be in sk01
  uzip diag.zip
                #unziping this file need to repeat the same process of removing
                unnecessary files
  cd diag
            #into diag
  mv comp pl3Dsk01Rs.f pl3Dsk01Rs.job ../. #move job file to sk01
  mv compD vJxBlineLLnew.job visJxBlineLLnew.f ../../sk01 #move the files in sk01
  rmdir diag #remove directory diag
  Get data for diagnostics
  vi pl3DskRs.job # open job file
    check your directroy, user is etc.
  vi plot3Dsk01Rs.f (new program is eddited)
                                              open .f file
  #comment out line 153 and 176
  C
       open(unit=2, file='nstn', status='old')
        go to 2578 (seen on a screeen)
  C
  ifort -o xplot3Dsk01Rs -mcmodel=large -shared-intel plot3Dsk01Rs.f #compile the file)
  sb pl3DskRs.job #job submitted)
  login1.frontera(1019)$ lq
                              NAME
                                      USER ST
                                                   TIME NODES NODELIST(REASON)
          IOBID PARTITION
                     nvdimm plcw3D01 tg457304 R
                                                        0:01
                                                                1 c100-005
  #How to ctreate dsk01 directory in home directory
  -scp dsk01.zip to Frontera to sk01
```

-unzip dsk01.zip

```
-cd .. just get out
-mkdir dsk01 # This gives you directory in frontera home along with sk01 Now you
have two directory in frontera home I.e sk01 and dsk01)
cd sk01 #get in sk01
cd dsk01 #get in dsk01
It #list all items
#move all files to dsk01
mv * ../../dsk01 #( mv move *-all, ../getout from dsko1(dummy) again ../getout
from sko1 and /dsk01 get into dsk01)
-cd .. #just get out from dsk01 and remove dsk01
-rmdir dsk01
#on tempory disk on sk03n
-tmp #get in temporay disk
-lt #list temporay disk item
-cd sk03n #get in
It io* le* *fie* ken* (list particular item, you can just do lt *.job, lt*.f etc)
you can find 25 set of these data
mkdir dsk03n #adding another directory those tmp are for storing large data)
#move these data to dsk03n
on sk03n
-mv io* le* *fie* ken* ../dsk03n (#move, set of data,../ getting out from sk03n this
moves these data to dsko3n)
on homepage sk01(back to sko1 frontera home)
-cd
-cd dsk01
on Frontera (dsk01)
-vi compD
copy the line below
ifort -mcmodel=medium -o x vis|xBlineLLnew -O3 vis|xBlineLLnew.f -L$TACC N
CARG LIB -Incarg -Incarg gks -Incarg c -IX11 -IXext -Igfortran -Icairo -Ifreetype
vi vJxBlineLLnew.job
(modify with your directroy and user id) #pen this job file (might be my mistake to write the
```

sb v[xBlineLLnew.job #submitted the job file

vi vJxBlineLLnew.job

(modify with your directroy and user id) #pen this job file (might be my mistake to write the directory path)

sb vJxBlineLLnew.job #submitted the job file

on dsk03n

- -tmp
- -cd dsko3n
- -lt (to make sure visit data)

mv visitdata vJxBlLn03n20.vtk #changing visitdata to .vtk file)

scp ramchandra58088@frontera.tacc.utexas.edu:/scratch1/09804/ramchandra58088/dsk03n/vJxBlLn03n20.vtk.

open file vJxBlLn03n20.vtk with VisIt

plot Jx current

I think you need to do so with me for the first time. Doing so with Note for VisIt is not easy. I needed to remember how to use VisIt for this time.