

SpinQuest Software

Github: <https://github.com/E1039-Collaboration/>

Get FNAL User account: <https://get-connected.fnal.gov/users/accounts/>

Login to FNAL

```
kinit -f <usr>@FNAL.GOV  
<type your password>  
ssh -Y <usr>@spinquestgvm01.fnal.gov
```

```
source /e906/app/software/osg/software/e1039/this-e1039.sh
```

```
git clone https://github.com/E1039-Collaboration/e1039-analysis.git
```

```
cd e1039-analysis/SimChainDev/
```

```
root -l Fun4Sim.C(100)
```

[SpinQuest GitHub](#)

Next Steps

Script to run the Fun4sim:

Go into the following directory:

```
/e906/app/users/(username)/e1039-analysis/SimChainDev
```

Example : `cd /e906/app/users/aarora/e1039-analysis/SimChainDev`

```
./gridsub.sh outfile n1 n2 n3
```

outfile-> whatever you want to name the output file

n1 This denotes if the job is run locally or on the grid. 1(run the job on the grid) 2(run the job on the local machine)

n2 number of jobs at a time (usually should be kept 1)

n3 number of events.

for example the following command will create an output directory called 'output' after running locally 1 job at a time with 100 events:

```
./gridsub.sh output 2 1 100
```

To access the output file:

once you successfully run the a folder named **scratch** will be created which will contain a folder name your output file.

```
/e906/app/users/aarora/e1039-analysis/SimChainDev/scratch/out1/1
```

the following command will create an output directory called 'example' after running on the grid 5 jobs at a time with 470 events:

```
source /e906/app/software/script/setup-jobsub-spinquest.sh
```

```
./gridsub.sh example 1 5 470
```