**Text

Description automatically generated**Quest:

**1. prepare files**

**2. Write necessary .txt files**

(1) *module load octave*

(2) *bash anal\_full\_process\_single\_seed.sh > anal\_full\_process\_single\_seed.out*

Note: check error message.

Determine if ugly variable ‘special’ is 1 or 0.

- Compare coord.pdb and format string.

- Check if the last column in coordinate.txt is correct (999, 1000, …)

**3. Use MATLAB on Quest to process .txt files**

- install FastX3 to use MATLAB GUI on Quest

- create a job

(1) *srun --x11 -N 1 -n 1 --account=p31714 --mem=20G --partition=short --time=03:55:00 --pty bash -l*

(2) *module load matlab*

(3) *matlab*

(4) run “analysis\_all.m” (it calls node\_bridge\_diagram\_multiplicity.m, Network\_Conductance.m and Connectivity\_Analysis.m)

4\*. The file “draw\_ss\_curve.m” is for plotting strain-stress curves after equil, shear and evaporation. Volume, strain and stress data need to be provided. We do not use it for network analysis.

5\*. “collect\_all\_movie.py” is used to copy individual configurations (“movie.png”) in each subfolder (e.g., HA1B1A1B1\_simulation /equil\_evolve\_x) to its parent folder (e.g., HA1B1A1B1\_simulation/movie).

6\*. “collect\_all\_data.py” is used to compare network properties in different systems.