0.1 How to build and install the code

- Log into SCC
- cd to /projectnb/qfe/\$USERNAME
- create a directory for the project in this case, I'm using twopointQFE
- create three directories in that folder: code, jobs and data
- cd into the code directory: cd twopointQFE/code/
- in that directory, create a directory called build and one called install
- clone the repo to your directory: git clone https://github.com/agasbarro/ising_graph.git
- cd into ising_graph
- run autoreconf to prepare the appropriate configuration scripts

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*note: I'm getting an error here, which is easy to fix:
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error: required file 'config/missing' not found 'automake --add-missing' can install 'missing' autoreconf: automake failed with exit status: 1
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The fix is just to do exactly what the error message recommends: automake --add-missing and then do autoreconf again

- cd into your build directory
- Set the path to the install files:

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/path/to/ising_graph/configure --prefix=/complete/path/to/ising_install So for me, this means I run:
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- ../ising_graph/configure --prefix=/projectnb/qfe/caseyb/twopointQFE/code/install
- run make all
- run make install
- Now you have an executable in install/bin/

0.2 How to submit a job

- I copied the bash scripts from Andy:
 cp /projectnb/qfe/gasbarro/3Drphi2/jobs/01_s2/*.sh
 /projectnb/qfe/caseyb/twopointQFE/jobs
- First, go into the submit_ising_bundle.sh file and change the paths so they match your directory structire
- To change parameters, edit the file submit_ising_bundle.sh note: it's easier to see what all these parameters are by examining the run_ising.sh file, but submit_ising_bundle.sh is where you make the changes.
 - twarm is the the number of thermalization steps. In run_ising.sh, the number of measurement iterations is specified to be 4×twarm, so that's the number you'll want to change to increase statistics
 - s is the number of lattice sites
- submit by running the submit_ising_bundle.sh script: ./submit_ising_bundle.sh
- check the status of your jobs with qstat -u \$USERNAME