USING THE SHARED COMPUTING CLUSTER TO SUBMIT R JOBS

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- First, see Marc Rysman's website to get an account
 - Also on his website, on the "Slides", you'll find instructions to download the necessary software
- Create a batch file. See the next page for an example.
- Save the batch file as a .txt file (rbatch.txt, for example)
- Open FileZilla and log in:
 - Host: scc1.bu.edu
 - Port: 22
 - $\rightarrow Quick connect$
- Upload your .R file and your batch file (rbatch.txt, for example)
- Open X11 (for Mac) or X-Win32 (for PC)
- Log in to the SCC server:
 - ssh yourUsername@scc1.bu.edu
 - When requested, enter your password
- Type chmod u+x rbatch.txt (or whatever the name of your batch file is)
 - This will (ch)ange the (mod)e of yo(u)r batch file to e(x)ecutable
- Type qsub -P econdept rbatch.txt
- Wait for an email confirming that your job has finished
- The log file is now accessible via FileZilla in your scc1 directory
- Visit http://www.bu.edu/tech/about/research/computation/scc/ for further assistance.

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```
# Note: A line of the form "#$ qsub_option" is interpreted
   by qsub as if "qsub_option" was passed to qsub on
#
#
   the commandline. A line of the form "# COMMENT" is
#
    interpreted as a comment.
# Set the runtime limit to 2 hours
#$ -l h_rt=2:00:00
Merge output files to reduce clutter
#$ -i y
# Name the standard output and error file
#$ -o example.qlog
echo "Starting on: $(date)"
echo "Running on node: $(hostname)"
echo "Current directory: $(pwd)"
echo "Current job ID : $JOB_ID"
echo "Current job name: $JOB_NAME"
echo "Task index number: $SGE TASK ID"
# Run the job. Here, example. R is the name of the . R file.
R --vanilla < example.R > output.Rout
echo "Finished on: $(date)"
```

#!/bin/sh