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
  – → Quickconnect
• 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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#!/bin/sh

# 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
#$ -j y
# Name the standard output and error file
#$ -o example.qlog

echo "=====================================================================
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"
echo "=====================================================================

# Run the job. Here, example.R is the name of the .R file.
R --vanilla < example.R > output.Rout

echo "=====================================================================
echo "Finished on : $(date)"
echo "====================================================================="