Exercise I:

Open a terminal:

Copy data package for exercise 1 to your Desktop:

cp /tmp/ex1.tar.gz ~/Desktop

Navigate to Desktop:

cd Desktop

Unpack package:

tar -xzvf ex1.tar.gz

Inspect content of directory:

ls -la .

Inspect content of all files:

More filename.txt

Please note that linux commands can be aggregated and scripted into a text file. The file can be executed as a new command then.

Design and configure a compute job. Use the job file template to create a Matlab job (uncomment where appropriate):

1. Open the file batchfile\_1 in a text editor:

gedit batchfile\_1

1. Load a proper Matlab module:

module load matlab-r2020a

1. Set up the proper execution line add.m is the Matlab code:

matlab -r add -nodisplay -nodesktop -nojvm -nosplash <exitcmd.txt

1. Save the file.

Submit the compute job to the wait queue:

qsub -m abe batchfile\_1

Monitor the queue and the submitted job:

qstat

showq

Upon completion (C status in qstat) examine the result and output/error files (replace “<jobid>” with proper number from qstat):

more myscript\_1.e<jobid>

more myscript\_1.o<jobid>

Also inspect the output file that was created by the program.

Assess the outcome of your compute job. Describe how the batch scheduler was used to run the computation. What happened at each step of the procedure?

Submit Python and R jobs and assess results.