SALIH KILICLI – STAT 624 HOMEWORK 1

—— SETUP ——

```
> ssh -YC username@terra.tamu.edu                          # logins to terra account
> wget https://mac.r-project.org/benchmarks/bench.R        # downloads the R file.
> module load R                                            # loads R module from terra account
>export R_BATCH_OPTIONS="–no-save –no-restore –slave"      # exports R batch options.
> R CMD BATCH bench.R bench.R.xy                           # runs the test script
> ls                                                       # lists the initial files in the wd
bench.R bench.R.xy
```

—— HW1.SH FILE ——

Here, I have written a shell file **hw1.sh** that runs the required 3 x 5 jobs in parallel on the Terra

```bash
#!/bin/bash

# BASH script: hw1.sh; to make executable use: chmod u+x hw1.sh

# wget https://mac.r-project.org/benchmarks/bench.R

# to run and time it use: time ./hw1.sh

# module load R

# export R_BATCH_OPTIONS="–no-save –no-restore –slave"

for i in {x..z}
do
    for j in {1..5}
    do
        R CMD BATCH bench.R file-${i}${j} &          #runs 5 (bench.R to file-ij) jobs in parallel
    done
 wait
 done

# 5 parallel jobs repeated 3 times for x y z variables #times the process without results
```

Saved and uploaded this file into my Terra account's working directory

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----- FINAL COMMANDS -----

> chmod u+x hw1.sh   #makes hw1.sh shell script executable

> time ./hw1.sh   # times the process of hw1.sh

real   0m51.299s

user   3m58.654s

sys   0m8.742s

> ls -l   #lists the files in wd in detail

-rw-rw-r– 1 math3mantic math3mantic 823 Dec 2 2012 bench.R
-rw-rw-r– 1 math3mantic math3mantic 2880 Sep 16 21:41 bench.R.xy
-rw-rw-r– 1 math3mantic math3mantic 1267 Sep 17 13:01 file-x1
-rw-rw-r– 1 math3mantic math3mantic 1267 Sep 17 13:01 file-x2
-rw-rw-r– 1 math3mantic math3mantic 1267 Sep 17 13:01 file-x3
-rw-rw-r– 1 math3mantic math3mantic 1267 Sep 17 13:01 file-x4
-rw-rw-r– 1 math3mantic math3mantic 1267 Sep 17 13:01 file-x5
-rw-rw-r– 1 math3mantic math3mantic 1267 Sep 17 13:01 file-y1
-rw-rw-r– 1 math3mantic math3mantic 1267 Sep 17 13:01 file-y2
-rw-rw-r– 1 math3mantic math3mantic 1267 Sep 17 13:01 file-y3
-rw-rw-r– 1 math3mantic math3mantic 1267 Sep 17 13:01 file-y4
-rw-rw-r– 1 math3mantic math3mantic 1267 Sep 17 13:01 file-y5
-rw-rw-r– 1 math3mantic math3mantic 1267 Sep 17 13:01 file-z1
-rw-rw-r– 1 math3mantic math3mantic 1267 Sep 17 13:01 file-z2
-rw-rw-r– 1 math3mantic math3mantic 1267 Sep 17 13:01 file-z3
-rw-rw-r– 1 math3mantic math3mantic 1267 Sep 17 13:01 file-z4
-rw-rw-r– 1 math3mantic math3mantic 1267 Sep 17 13:01 file-z5
-rwxrw-r– 1 math3mantic math3mantic 448 Sep 17 12:49 hw1.sh