## HPC-parallel

##copy a1.R and a1.R as b101.R and c102.R

$var1=( seq 1 2 )

$ var2=( seq 101 102 )

##$ echo ${var1[1]}

$ for i in {1..2}; do cp b${var1[i]}.R /home/ucakmil/c${var2[i]}.R ;done

$ for i in {2..25}; do cp a1.R /home/ucakmil/a${var1[i]}.R ;done

[ucakmil@login07 hd\_ens99]$ V1=({1..100..1})

[ucakmil@login07 hd\_ens99]$ V2=({9801..9900..1})

[ucakmil@login07 hd\_ens99]$ for i in {0..99}; do mv ensemble${V1[i]}.nc /home/ucakmil/lk\_par\_ens/hd\_ens99/ensemble${V2[i]}.nc ;done

for i in {1..9}; do sed -i '23s/1920/1643/1' 6e$i.R;done

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6e$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6e9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6d$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6d9.R,R\_output=R\_example.out 4.sh

[submit both of the above]

for i in {1..2}; do cp /home/ucakmil/hd\_$i/a1.R /home/ucakmil/HD/a"$i""01".R ; done

### ABC

qsub -v R\_input=/home/ucakmil/hd\_proj/abc/A1.R,R\_output=R\_example.out array\_job.sh

global annual mean blended surface temperature

##ABC plan

-write in code the prior-vectors lambda and a.wght…keep them fixed

-compute rss and save it in .nc file

-submit 12 jobs each consisting of 100 iterations….do open MP over 100 iterations

qstat | wc -l

**##submit jobs simultaneously**

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/a$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/a9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/b$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/b9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/c$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/c9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/d$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/d9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/e$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/e9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/f$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/f9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/g$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/g9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/h$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/h9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/i$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/i9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/j$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/j9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/k$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/k9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/l$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/l9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/m$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/m9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/n$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/n9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/o$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/o9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/p$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/p9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/q$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/q9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/r$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/r9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/s$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/s9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/t$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/t9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/u$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/u9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/v$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/v9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/w$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/w9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/x$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/x9.R,R\_output=R\_example.out 4.sh

**third-group**

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/A$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/A9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/B$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/B9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/C$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/C9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/D$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/D9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/E$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/E9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/F$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/F9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/G$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/G9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/H$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/H9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/I$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/I9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/J$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/J9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/K$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/K9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/L$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/L9.R,R\_output=R\_example.out 4.sh

**fourth-group**

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/M$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/M9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/N$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/N9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/O$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/O9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/P$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/P9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/Q$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/Q9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/R$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/R9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/S$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/S9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/T$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/T9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/U$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/U9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/V$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/V9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/W$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/W9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/X$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/X9.R,R\_output=R\_example.out 4.sh

**Fifth-group**

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/aa$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/aa9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/bb$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/bb9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/cc$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/cc9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/dd$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/dd9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ee$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ee9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ff$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ff9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/gg$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/gg9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/hh$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/hh9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ii$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ii9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/jj$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/jj9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/kk$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/kk9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ll$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ll9.R,R\_output=R\_example.out 4.sh

**Sixth-group**

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/mm$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/mm9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/nn$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/nn9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/oo$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/oo9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/pp$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/pp9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/qq$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/qq9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/rr$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/rr9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ss$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ss9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/tt$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/tt9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/uu$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/uu9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/vv$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/vv9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ww$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ww9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/xx$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/xx9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/AA$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/AA9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/BB$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/BB9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/CC$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/CC9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/DD$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/DD9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/EE$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/EE9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/FF$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/FF9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/GG$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/GG9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/HH$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/HH9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/II$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/II9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/JJ$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/JJ9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/KK$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/KK9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/LL$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/LL9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/MM$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/MM9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/NN$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/NN9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/OO$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/OO9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/PP$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/PP9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/QQ$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/QQ9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/RR$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/RR9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/SS$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/SS9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/TT$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/TT9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/UU$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/UU9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/VV$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/VV9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/WW$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/WW9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/XX$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/XX9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/aaa$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/aaa9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/bbb$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/bbb9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ccc$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ccc9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ddd$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ddd9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/eee$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/eee9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/fff$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/fff9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ggg$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ggg9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/hhh$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/hhh9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/iii$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/iii9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/jjj$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/jjj9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/kkk$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/kkk9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/lll$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/lll9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/mmm$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/mmm9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/nnn$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/nnn9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ooo$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ooo9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ppp$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ppp9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/qqq$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/qqq9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/rrr$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/rrr9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/sss$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/sss9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ttt$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ttt9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/uuu$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/uuu9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/vvv$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/vvv9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/www$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/www9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/xxx$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/xxx9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/AAA$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/AAA9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/BBB$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/BBB9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/CCC$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/CCC9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/DDD$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/DDD9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/EEE$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/EEE9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/FFF$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/FFF9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/GGG$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/GGG9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/HHH$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/HHH9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/III$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/III9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/JJJ$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/JJJ9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/KKK$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/KKK9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/LLL$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/LLL9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/MMM$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/MMM9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/NNN$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/NNN9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/OOO$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/OOO9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/PPP$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/PPP9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/QQQ$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/QQQ9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/RRR$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/RRR9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/SSS$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/SSS9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/TTT$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/TTT9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/UUU$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/UUU9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/VVV$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/VVV9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/WWW$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/WWW9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/XXX$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/XXX9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/aaaa$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/aaaa9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/bbbb$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/bbbb9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/cccc$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/cccc9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/dddd$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/dddd9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/eeee$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/eeee9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ffff$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ffff9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/gggg$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/gggg9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/hhhh$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/hhhh9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/iiii$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/iiii9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/jjjj$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/jjjj9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/kkkk$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/kkkk9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/llll$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/llll9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/mmmm$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/mmmm9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/nnnn$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/nnnn9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/oooo$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/oooo9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/pppp$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/pppp9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/qqqq$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/qqqq9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/rrrr$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/rrrr9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ssss$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ssss9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/tttt$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/tttt9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/uuuu$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/uuuu9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/vvvv$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/vvvv9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/wwww$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/wwww9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/xxxx$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/xxxx9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/AAAA$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/AAAA9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/BBBB$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/BBBB9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/CCCC$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/CCCC9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/DDDD$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/DDDD9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/EEEE$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/EEEE9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/FFFF$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/FFFF9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/GGGG$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/GGGG9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/HHHH$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/HHHH9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/IIII$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/IIII9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/JJJJ$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/JJJJ9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/KKKK$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/KKKK9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/LLLL$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/LLLL9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/MMMM$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/MMMM9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/NNNN$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/NNNN9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/OOOO$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/OOOO9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/PPPP$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/PPPP9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/QQQQ$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/QQQQ9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/RRRR$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/RRRR9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/SSSS$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/SSSS9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/TTTT$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/TTTT9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/UUUU$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/UUUU9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/VVVV$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/VVVV9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/WWWW$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/WWWW9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/XXXX$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/XXXX9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/aaaaa$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/aaaaa9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/bbbbb$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/bbbbb9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ccccc$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ccccc9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ddddd$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ddddd9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/eeeee$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/eeeee9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/fffff$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/fffff9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ggggg$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ggggg9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/hhhhh$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/hhhhh9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/iiiii$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/iiiii9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/jjjjj$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/jjjjj9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/kkkkk$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/kkkkk9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/lllll$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/lllll9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/mmmmm$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/mmmmm9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/nnnnn$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/nnnnn9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ooooo$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ooooo9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ppppp$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ppppp9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/qqqqq$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/qqqqq9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/rrrrr$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/rrrrr9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/sssss$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/sssss9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ttttt$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ttttt9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/uuuuu$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/uuuuu9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/vvvvv$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/vvvvv9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/wwwww$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/wwwww9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/xxxxx$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/xxxxx9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6a$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6a9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6b$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6b9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6c$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6c9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6d$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6d9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6e$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6e9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6f$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6f9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6g$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6g9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6h$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6h9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6i$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6i9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6j$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6j9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6k$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6k9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6l$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6l9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6m$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6m9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6n$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6n9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6o$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6o9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6p$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6p9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6q$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6q9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6r$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6r9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6s$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6s9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6t$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6t9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6u$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6u9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6v$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6v9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6w$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6w9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6x$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6x9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6A$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6A9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6B$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6B9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6C$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6C9.R,R\_output=R\_example.out 4.sh

**UPTO HERE**

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6D$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6D9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6E$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6E9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6F$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6F9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6G$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6G9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6H$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6H9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6I$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6I9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6J$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6J9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6K$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6K9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6L$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6L9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6M$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6M9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6N$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6N9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6O$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6O9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6P$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6P9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6Q$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6Q9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6R$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6R9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6S$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6S9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6T$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6T9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6U$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6U9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6V$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6V9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6W$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6W9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6X$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/6X9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7a$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7a9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7b$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7b9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7c$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7c9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7d$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7d9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7e$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7e9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7f$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7f9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7g$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7g9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7h$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7h9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7i$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7i9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7j$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7j9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7k$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7k9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7l$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7l9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7m$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7m9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7n$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7n9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7o$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7o9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7p$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7p9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7q$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7q9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7r$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7r9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7s$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7s9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7t$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7t9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7u$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7u9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7v$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7v9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7w$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7w9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7x$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7x9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7A$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7A9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7B$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7B9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7C$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7C9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7D$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7D9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7E$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7E9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7F$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7F9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7G$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7G9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7H$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7H9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7I$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7I9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7J$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7J9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7K$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7K9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7L$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7L9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7M$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7M9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7N$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7N9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7O$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7O9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7P$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7P9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7Q$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7Q9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7R$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7R9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7S$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7S9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7T$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7T9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7U$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7U9.R,R\_output=R\_example.out 4.sh

**UPTO HERE**

…………………………………………………………..**UPTO HERE PARAMETERS**

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7V$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7V9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7W$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7W9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7X$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/7X9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8a$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8a9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8b$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8b9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8c$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8c9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8d$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8d9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8e$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8e9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8f$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8f9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8g$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8g9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8h$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8h9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8i$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8i9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8j$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8j9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8k$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8k9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8l$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8l9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8m$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8m9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8n$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8n9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8o$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8o9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8p$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8p9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8q$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8q9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8r$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8r9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8s$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8s9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8t$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8t9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8u$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8u9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8v$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8v9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8w$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8w9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8x$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8x9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8A$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8A9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8B$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8B9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8C$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8C9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8D$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8D9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8E$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8E9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8F$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8F9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8G$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8G9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8H$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8H9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8I$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8I9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8J$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8J9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8K$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8K9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8L$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8L9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8M$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8M9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8N$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8N9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8O$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8O9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8P$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8P9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8Q$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8Q9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8R$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8R9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8S$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8S9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8T$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8T9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8U$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8U9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8V$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8V9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8W$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8W9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8X$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/8X9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9a$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9a9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9b$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9b9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9c$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9c9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9d$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9d9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9e$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9e9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9f$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9f9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9g$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9g9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9h$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9h9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9i$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9i9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9j$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9j9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9k$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9k9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9l$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9l9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9m$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9m9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9n$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9n9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9o$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9o9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9p$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9p9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9q$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9q9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9r$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9r9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9s$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9s9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9t$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9t9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9u$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9u9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9v$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9v9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9w$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9w9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9x$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9x9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9A$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9A9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9B$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9B9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9C$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9C9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9D$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9D9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9E$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9E9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9F$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9F9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9G$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9G9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9H$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9H9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9I$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9I9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9J$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9J9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9K$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9K9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9L$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9L9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9M$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9M9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9N$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9N9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9O$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9O9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9P$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9P9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9Q$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9Q9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9R$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9R9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9S$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9S9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9T$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9T9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9U$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9U9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9V$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9V9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9W$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9W9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9X$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/9X9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10a$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10a9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10b$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10b9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10c$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10c9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10d$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10d9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10e$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10e9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10f$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10f9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10g$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10g9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10h$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10h9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10i$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10i9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10j$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10j9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10k$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10k9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10l$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10l9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10m$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10m9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10n$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10n9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10o$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10o9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10p$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10p9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10q$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10q9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10r$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10r9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10s$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10s9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10t$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10t9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10u$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10u9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10v$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10v9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10w$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10w9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10x$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10x9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10A$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10A9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10B$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10B9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10C$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10C9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10D$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10D9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10E$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10E9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10F$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10F9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10G$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10G9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10H$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10H9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10I$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10I9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10J$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10J9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10K$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10K9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10L$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10L9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10M$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10M9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10N$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10N9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10O$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10O9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10P$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10P9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10Q$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10Q9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10R$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10R9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10S$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10S9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10T$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10T9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10U$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10U9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10V$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10V9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10W$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10W9.R,R\_output=R\_example.out 4.sh

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10X$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/10X9.R,R\_output=R\_example.out 4.sh

**UPTO HERE**

##edit R\_scripts

**##~~~~~cp using for loop**

for i in {1..9}; do cp a$i.R 10a$i.R ; done

for i in {1..9}; do cp a$i.R 10b$i.R ; done

for i in {1..9}; do cp a$i.R 10c$i.R ; done

for i in {1..9}; do cp a$i.R 10d$i.R ; done

for i in {1..9}; do cp a$i.R 10e$i.R ; done

for i in {1..9}; do cp a$i.R 10f$i.R ; done

for i in {1..9}; do cp a$i.R 10g$i.R ; done

for i in {1..9}; do cp a$i.R 10h$i.R ; done

for i in {1..9}; do cp a$i.R 10i$i.R ; done

for i in {1..9}; do cp a$i.R 10j$i.R ; done

for i in {1..9}; do cp a$i.R 10k$i.R ; done

for i in {1..9}; do cp a$i.R 10l$i.R ; done

for i in {1..9}; do cp a$i.R 10m$i.R ; done

for i in {1..9}; do cp a$i.R 10n$i.R ; done

for i in {1..9}; do cp a$i.R 10o$i.R ; done

for i in {1..9}; do cp a$i.R 10p$i.R ; done

for i in {1..9}; do cp a$i.R 10q$i.R ; done

for i in {1..9}; do cp a$i.R 10r$i.R ; done

for i in {1..9}; do cp a$i.R 10s$i.R ; done

for i in {1..9}; do cp a$i.R 10t$i.R ; done

for i in {1..9}; do cp a$i.R 10u$i.R ; done

for i in {1..9}; do cp a$i.R 10v$i.R ; done

for i in {1..9}; do cp a$i.R 10w$i.R ; done

for i in {1..9}; do cp a$i.R 10x$i.R ; done

for i in {1..9}; do cp a$i.R 10A$i.R ; done

for i in {1..9}; do cp a$i.R 10B$i.R ; done

for i in {1..9}; do cp a$i.R 10C$i.R ; done

for i in {1..9}; do cp a$i.R 10D$i.R ; done

for i in {1..9}; do cp a$i.R 10E$i.R ; done

for i in {1..9}; do cp a$i.R 10F$i.R ; done

for i in {1..9}; do cp a$i.R 10G$i.R ; done

for i in {1..9}; do cp a$i.R 10H$i.R ; done

for i in {1..9}; do cp a$i.R 10I$i.R ; done

for i in {1..9}; do cp a$i.R 10J$i.R ; done

for i in {1..9}; do cp a$i.R 10K$i.R ; done

for i in {1..9}; do cp a$i.R 10L$i.R ; done

for i in {1..9}; do cp a$i.R 10M$i.R ; done

for i in {1..9}; do cp a$i.R 10N$i.R ; done

for i in {1..9}; do cp a$i.R 10O$i.R ; done

for i in {1..9}; do cp a$i.R 10P$i.R ; done

for i in {1..9}; do cp a$i.R 10Q$i.R ; done

for i in {1..9}; do cp a$i.R 10R$i.R ; done

for i in {1..9}; do cp a$i.R 10S$i.R ; done

for i in {1..9}; do cp a$i.R 10T$i.R ; done

for i in {1..9}; do cp a$i.R 10U$i.R ; done

for i in {1..9}; do cp a$i.R 10V$i.R ; done

for i in {1..9}; do cp a$i.R 10W$i.R ; done

for i in {1..9}; do cp a$i.R 10X$i.R ; done

**##~~~~~~Search and edit scripts and change time points**

**First\_group**

for i in {1..9}; do sed -i '23s/1/62/1' a$i.R;done

for i in {1..9}; do sed -i '23s/1245/1701/1' b$i.R;done

for i in {1..9}; do sed -i '23s/1246/1702/1' c$i.R;done

for i in {1..9}; do sed -i '23s/1247/1703/1' d$i.R;done

for i in {1..9}; do sed -i '23s/1248/1704/1' e$i.R;done

for i in {1..9}; do sed -i '23s/1249/1705/1' f$i.R;done

for i in {1..9}; do sed -i '23s/1250/1706/1' g$i.R;done

for i in {1..9}; do sed -i '23s/1251/1707/1' h$i.R;done

for i in {1..9}; do sed -i '23s/1252/1708/1' i$i.R;done

for i in {1..9}; do sed -i '23s/1253/1709/1' j$i.R;done

for i in {1..9}; do sed -i '23s/1254/1710/1' k$i.R;done

for i in {1..9}; do sed -i '23s/1255/1711/1' l$i.R;done

**Second\_group**

for i in {1..9}; do sed -i '23s/1256/1712/1' m$i.R;done

for i in {1..9}; do sed -i '23s/1257/1713/1' n$i.R;done

for i in {1..9}; do sed -i '23s/1258/1714/1' o$i.R;done

for i in {1..9}; do sed -i '23s/1259/1715/1' p$i.R;done

for i in {1..9}; do sed -i '23s/1260/1716/1' q$i.R;done

for i in {1..9}; do sed -i '23s/1261/1717/1' r$i.R;done

for i in {1..9}; do sed -i '23s/1262/1718/1' s$i.R;done

for i in {1..9}; do sed -i '23s/1263/1719/1' t$i.R;done

for i in {1..9}; do sed -i '23s/1264/1720/1' u$i.R;done

for i in {1..9}; do sed -i '23s/1265/1721/1' v$i.R;done

for i in {1..9}; do sed -i '23s/1266/1722/1' w$i.R;done

for i in {1..9}; do sed -i '23s/1267/1723/1' x$i.R;done

**Third\_group**

for i in {1..9}; do sed -i '23s/1268/1724/1' A$i.R;done

for i in {1..9}; do sed -i '23s/1269/1725/1' B$i.R;done

for i in {1..9}; do sed -i '23s/1270/1726/1' C$i.R;done

for i in {1..9}; do sed -i '23s/1271/1727/1' D$i.R;done

for i in {1..9}; do sed -i '23s/1272/1728/1' E$i.R;done

for i in {1..9}; do sed -i '23s/1273/1729/1' F$i.R;done

for i in {1..9}; do sed -i '23s/1274/1730/1' G$i.R;done

for i in {1..9}; do sed -i '23s/1275/1731/1' H$i.R;done

for i in {1..9}; do sed -i '23s/1276/1732/1' I$i.R;done

for i in {1..9}; do sed -i '23s/1277/1733/1' J$i.R;done

for i in {1..9}; do sed -i '23s/1278/1734/1' K$i.R;done

for i in {1..9}; do sed -i '23s/1279/1735/1' L$i.R;done

**Fourth\_group**

for i in {1..9}; do sed -i '23s/1280/1736/1' M$i.R;done

for i in {1..9}; do sed -i '23s/1281/1737/1' N$i.R;done

for i in {1..9}; do sed -i '23s/1282/1738/1' O$i.R;done

for i in {1..9}; do sed -i '23s/1283/1739/1' P$i.R;done

for i in {1..9}; do sed -i '23s/1284/1740/1' Q$i.R;done

for i in {1..9}; do sed -i '23s/1285/1741/1' R$i.R;done

for i in {1..9}; do sed -i '23s/1286/1742/1' S$i.R;done

for i in {1..9}; do sed -i '23s/1287/1743/1' T$i.R;done

for i in {1..9}; do sed -i '23s/1288/1744/1' U$i.R;done

for i in {1..9}; do sed -i '23s/1289/1745/1' V$i.R;done

for i in {1..9}; do sed -i '23s/1290/1746/1' W$i.R;done

for i in {1..9}; do sed -i '23s/1291/1747/1' X$i.R;done

**fifth-group**

for i in {1..9}; do sed -i '23s/1292/1748/1' aa$i.R;done

for i in {1..9}; do sed -i '23s/1293/1749/1' bb$i.R;done

for i in {1..9}; do sed -i '23s/1294/1750/1' cc$i.R;done

for i in {1..9}; do sed -i '23s/1295/1751/1' dd$i.R;done

for i in {1..9}; do sed -i '23s/1296/1752/1' ee$i.R;done

for i in {1..9}; do sed -i '23s/1297/1753/1' ff$i.R;done

for i in {1..9}; do sed -i '23s/1298/1754/1' gg$i.R;done

for i in {1..9}; do sed -i '23s/1299/1755/1' hh$i.R;done

for i in {1..9}; do sed -i '23s/1300/1756/1' ii$i.R;done

for i in {1..9}; do sed -i '23s/1301/1757/1' jj$i.R;done

for i in {1..9}; do sed -i '23s/1302/1758/1' kk$i.R;done

for i in {1..9}; do sed -i '23s/1303/1759/1' ll$i.R;done

**sixth-group**

for i in {1..9}; do sed -i '23s/1304/1760/1' mm$i.R;done

for i in {1..9}; do sed -i '23s/1305/1761/1' nn$i.R;done

for i in {1..9}; do sed -i '23s/1306/1762/1' oo$i.R;done

for i in {1..9}; do sed -i '23s/1307/1763/1' pp$i.R;done

for i in {1..9}; do sed -i '23s/1308/1764/1' qq$i.R;done

for i in {1..9}; do sed -i '23s/1309/1765/1' rr$i.R;done

for i in {1..9}; do sed -i '23s/1310/1766/1' ss$i.R;done

for i in {1..9}; do sed -i '23s/1311/1767/1' tt$i.R;done

for i in {1..9}; do sed -i '23s/1312/1768/1' uu$i.R;done

for i in {1..9}; do sed -i '23s/1313/1769/1' vv$i.R;done

for i in {1..9}; do sed -i '23s/1314/1770/1' ww$i.R;done

for i in {1..9}; do sed -i '23s/1315/1771/1' xx$i.R;done

**seventh-group**

for i in {1..9}; do sed -i '23s/1316/1772/1' AA$i.R;done

for i in {1..9}; do sed -i '23s/1317/1773/1' BB$i.R;done

for i in {1..9}; do sed -i '23s/1318/1774/1' CC$i.R;done

for i in {1..9}; do sed -i '23s/1319/1775/1' DD$i.R;done

for i in {1..9}; do sed -i '23s/1320/1776/1' EE$i.R;done

for i in {1..9}; do sed -i '23s/1321/1777/1' FF$i.R;done

for i in {1..9}; do sed -i '23s/1322/1778/1' GG$i.R;done

for i in {1..9}; do sed -i '23s/1323/1779/1' HH$i.R;done

for i in {1..9}; do sed -i '23s/1324/1780/1' II$i.R;done

for i in {1..9}; do sed -i '23s/1325/1781/1' JJ$i.R;done

for i in {1..9}; do sed -i '23s/1326/1782/1' KK$i.R;done

for i in {1..9}; do sed -i '23s/1327/1783/1' LL$i.R;done

**eighth-group**

for i in {1..9}; do sed -i '23s/1328/1784/1' MM$i.R;done

for i in {1..9}; do sed -i '23s/1329/1785/1' NN$i.R;done

for i in {1..9}; do sed -i '23s/1330/1786/1' OO$i.R;done

for i in {1..9}; do sed -i '23s/1331/1787/1' PP$i.R;done

for i in {1..9}; do sed -i '23s/1332/1788/1' QQ$i.R;done

for i in {1..9}; do sed -i '23s/1333/1789/1' RR$i.R;done

for i in {1..9}; do sed -i '23s/1334/1790/1' SS$i.R;done

for i in {1..9}; do sed -i '23s/1335/1791/1' TT$i.R;done

for i in {1..9}; do sed -i '23s/1336/1792/1' UU$i.R;done

for i in {1..9}; do sed -i '23s/1337/1793/1' VV$i.R;done

for i in {1..9}; do sed -i '23s/1338/1794/1' WW$i.R;done

for i in {1..9}; do sed -i '23s/1339/1795/1' XX$i.R;done

**ninth-group**

for i in {1..9}; do sed -i '23s/1340/1796/1' aaa$i.R;done

for i in {1..9}; do sed -i '23s/1341/1797/1' bbb$i.R;done

for i in {1..9}; do sed -i '23s/1342/1798/1' ccc$i.R;done

for i in {1..9}; do sed -i '23s/1343/1799/1' ddd$i.R;done

for i in {1..9}; do sed -i '23s/1344/1800/1' eee$i.R;done

for i in {1..9}; do sed -i '23s/1345/1801/1' fff$i.R;done

for i in {1..9}; do sed -i '23s/1346/1802/1' ggg$i.R;done

for i in {1..9}; do sed -i '23s/1347/1803/1' hhh$i.R;done

for i in {1..9}; do sed -i '23s/1348/1804/1' iii$i.R;done

for i in {1..9}; do sed -i '23s/1349/1805/1' jjj$i.R;done

for i in {1..9}; do sed -i '23s/1350/1806/1' kkk$i.R;done

for i in {1..9}; do sed -i '23s/1351/1807/1' lll$i.R;done

**tenth-group**

for i in {1..9}; do sed -i '23s/1352/1808/1' mmm$i.R;done

for i in {1..9}; do sed -i '23s/1353/1809/1' nnn$i.R;done

for i in {1..9}; do sed -i '23s/1354/1810/1' ooo$i.R;done

for i in {1..9}; do sed -i '23s/1355/1811/1' ppp$i.R;done

for i in {1..9}; do sed -i '23s/1356/1812/1' qqq$i.R;done

for i in {1..9}; do sed -i '23s/1357/1813/1' rrr$i.R;done

for i in {1..9}; do sed -i '23s/1358/1814/1' sss$i.R;done

for i in {1..9}; do sed -i '23s/1359/1815/1' ttt$i.R;done

for i in {1..9}; do sed -i '23s/1360/1816/1' uuu$i.R;done

for i in {1..9}; do sed -i '23s/1361/1817/1' vvv$i.R;done

for i in {1..9}; do sed -i '23s/1362/1818/1' www$i.R;done

for i in {1..9}; do sed -i '23s/1363/1819/1' xxx$i.R;done

**eleventh-group**

for i in {1..9}; do sed -i '23s/1364/1820/1' AAA$i.R;done

for i in {1..9}; do sed -i '23s/1365/1821/1' BBB$i.R;done

for i in {1..9}; do sed -i '23s/1366/1822/1' CCC$i.R;done

for i in {1..9}; do sed -i '23s/1367/1823/1' DDD$i.R;done

for i in {1..9}; do sed -i '23s/1368/1824/1' EEE$i.R;done

for i in {1..9}; do sed -i '23s/1369/1825/1' FFF$i.R;done

for i in {1..9}; do sed -i '23s/1370/1826/1' GGG$i.R;done

for i in {1..9}; do sed -i '23s/1371/1827/1' HHH$i.R;done

for i in {1..9}; do sed -i '23s/1372/1828/1' III$i.R;done

for i in {1..9}; do sed -i '23s/1373/1829/1' JJJ$i.R;done

for i in {1..9}; do sed -i '23s/1374/1830/1' KKK$i.R;done

for i in {1..9}; do sed -i '23s/1375/1831/1' LLL$i.R;done

**twelfth-group**

for i in {1..9}; do sed -i '23s/1376/1832/1' MMM$i.R;done

for i in {1..9}; do sed -i '23s/1377/1833/1' NNN$i.R;done

for i in {1..9}; do sed -i '23s/1378/1834/1' OOO$i.R;done

for i in {1..9}; do sed -i '23s/1379/1835/1' PPP$i.R;done

for i in {1..9}; do sed -i '23s/1380/1836/1' QQQ$i.R;done

for i in {1..9}; do sed -i '23s/1381/1837/1' RRR$i.R;done

for i in {1..9}; do sed -i '23s/1382/1838/1' SSS$i.R;done

for i in {1..9}; do sed -i '23s/1383/1839/1' TTT$i.R;done

for i in {1..9}; do sed -i '23s/1384/1840/1' UUU$i.R;done

for i in {1..9}; do sed -i '23s/1385/1841/1' VVV$i.R;done

for i in {1..9}; do sed -i '23s/1386/1842/1' WWW$i.R;done

for i in {1..9}; do sed -i '23s/1387/1843/1' XXX$i.R;done

for i in {1..9}; do sed -i '23s/1388/1844/1' aaaa$i.R;done

for i in {1..9}; do sed -i '23s/1389/1845/1' bbbb$i.R;done

for i in {1..9}; do sed -i '23s/1390/1846/1' cccc$i.R;done

for i in {1..9}; do sed -i '23s/1391/1847/1' dddd$i.R;done

for i in {1..9}; do sed -i '23s/1392/1848/1' eeee$i.R;done

for i in {1..9}; do sed -i '23s/1393/1849/1' ffff$i.R;done

for i in {1..9}; do sed -i '23s/1394/1850/1' gggg$i.R;done

for i in {1..9}; do sed -i '23s/1395/1851/1' hhhh$i.R;done

for i in {1..9}; do sed -i '23s/1396/1852/1' iiii$i.R;done

for i in {1..9}; do sed -i '23s/1397/1853/1' jjjj$i.R;done

for i in {1..9}; do sed -i '23s/1398/1854/1' kkkk$i.R;done

for i in {1..9}; do sed -i '23s/1399/1855/1' llll$i.R;done

**fourteenth-group**

for i in {1..9}; do sed -i '23s/1400/1856/1' mmmm$i.R;done

for i in {1..9}; do sed -i '23s/1401/1857/1' nnnn$i.R;done

for i in {1..9}; do sed -i '23s/1402/1858/1' oooo$i.R;done

for i in {1..9}; do sed -i '23s/1403/1859/1' pppp$i.R;done

for i in {1..9}; do sed -i '23s/1404/1860/1' qqqq$i.R;done

for i in {1..9}; do sed -i '23s/1405/1861/1' rrrr$i.R;done

for i in {1..9}; do sed -i '23s/1406/1862/1' ssss$i.R;done

for i in {1..9}; do sed -i '23s/1407/1863/1' tttt$i.R;done

for i in {1..9}; do sed -i '23s/1408/1864/1' uuuu$i.R;done

for i in {1..9}; do sed -i '23s/1409/1865/1' vvvv$i.R;done

for i in {1..9}; do sed -i '23s/1410/1866/1' wwww$i.R;done

for i in {1..9}; do sed -i '23s/1411/1867/1' xxxx$i.R;done

**fifteenth-group**

for i in {1..9}; do sed -i '23s/1412/1868/1' AAAA$i.R;done

for i in {1..9}; do sed -i '23s/1413/1869/1' BBBB$i.R;done

for i in {1..9}; do sed -i '23s/1414/1870/1' CCCC$i.R;done

for i in {1..9}; do sed -i '23s/1415/1871/1' DDDD$i.R;done

for i in {1..9}; do sed -i '23s/1416/1872/1' EEEE$i.R;done

for i in {1..9}; do sed -i '23s/1417/1873/1' FFFF$i.R;done

for i in {1..9}; do sed -i '23s/1418/1874/1' GGGG$i.R;done

for i in {1..9}; do sed -i '23s/1419/1875/1' HHHH$i.R;done

for i in {1..9}; do sed -i '23s/1420/1876/1' IIII$i.R;done

for i in {1..9}; do sed -i '23s/1421/1877/1' JJJJ$i.R;done

for i in {1..9}; do sed -i '23s/1422/1878/1' KKKK$i.R;done

for i in {1..9}; do sed -i '23s/1423/1879/1' LLLL$i.R;done

**twelfth-group**

for i in {1..9}; do sed -i '23s/1424/1880/1' MMMM$i.R;done

for i in {1..9}; do sed -i '23s/1425/1881/1' NNNN$i.R;done

for i in {1..9}; do sed -i '23s/1426/1882/1' OOOO$i.R;done

for i in {1..9}; do sed -i '23s/1427/1883/1' PPPP$i.R;done

for i in {1..9}; do sed -i '23s/1428/1884/1' QQQQ$i.R;done

for i in {1..9}; do sed -i '23s/1429/1885/1' RRRR$i.R;done

for i in {1..9}; do sed -i '23s/1430/1886/1' SSSS$i.R;done

for i in {1..9}; do sed -i '23s/1431/1887/1' TTTT$i.R;done

for i in {1..9}; do sed -i '23s/1432/1888/1' UUUU$i.R;done

for i in {1..9}; do sed -i '23s/1433/1889/1' VVVV$i.R;done

for i in {1..9}; do sed -i '23s/1434/1890/1' WWWW$i.R;done

for i in {1..9}; do sed -i '23s/1435/1891/1' XXXX$i.R;done

for i in {1..9}; do sed -i '23s/1436/1892/1' aaaaa$i.R;done

for i in {1..9}; do sed -i '23s/1437/1893/1' bbbbb$i.R;done

for i in {1..9}; do sed -i '23s/1438/1894/1' ccccc$i.R;done

for i in {1..9}; do sed -i '23s/1439/1895/1' ddddd$i.R;done

for i in {1..9}; do sed -i '23s/1440/1896/1' eeeee$i.R;done

for i in {1..9}; do sed -i '23s/1441/1897/1' fffff$i.R;done

for i in {1..9}; do sed -i '23s/1442/1898/1' ggggg$i.R;done

for i in {1..9}; do sed -i '23s/1443/1899/1' hhhhh$i.R;done

for i in {1..9}; do sed -i '23s/1444/1900/1' iiiii$i.R;done

for i in {1..9}; do sed -i '23s/1445/1901/1' jjjjj$i.R;done

for i in {1..9}; do sed -i '23s/1446/1902/1' kkkkk$i.R;done

for i in {1..9}; do sed -i '23s/1447/1903/1' lllll$i.R;done

**sixteenth-group**

for i in {1..9}; do sed -i '23s/1448/1904/1' mmmmm$i.R;done

for i in {1..9}; do sed -i '23s/1449/1905/1' nnnnn$i.R;done

for i in {1..9}; do sed -i '23s/1450/1906/1' ooooo$i.R;done

for i in {1..9}; do sed -i '23s/1451/1907/1' ppppp$i.R;done

for i in {1..9}; do sed -i '23s/1452/1908/1' qqqqq$i.R;done

for i in {1..9}; do sed -i '23s/1453/1909/1' rrrrr$i.R;done

for i in {1..9}; do sed -i '23s/1454/1910/1' sssss$i.R;done

for i in {1..9}; do sed -i '23s/1455/1911/1' ttttt$i.R;done

for i in {1..9}; do sed -i '23s/1456/1912/1' uuuuu$i.R;done

for i in {1..9}; do sed -i '23s/1457/1913/1' vvvvv$i.R;done

for i in {1..9}; do sed -i '23s/1458/1914/1' wwwww$i.R;done

for i in {1..9}; do sed -i '23s/1459/1915/1' xxxxx$i.R;done

**seventeenth-group**

for i in {1..9}; do sed -i '23s/1460/1916/1' 6a$i.R;done

for i in {1..9}; do sed -i '23s/1461/1917/1' 6b$i.R;done

for i in {1..9}; do sed -i '23s/1462/1918/1' 6c$i.R;done

for i in {1..9}; do sed -i '23s/1463/1919/1' 6d$i.R;done

for i in {1..9}; do sed -i '23s/1464/1920/1' 6e$i.R;done

for i in {1..9}; do sed -i '23s/1465/1921/1' 6f$i.R;done

for i in {1..9}; do sed -i '23s/1466/1922/1' 6g$i.R;done

for i in {1..9}; do sed -i '23s/1467/1923/1' 6h$i.R;done

for i in {1..9}; do sed -i '23s/1468/1924/1' 6i$i.R;done

for i in {1..9}; do sed -i '23s/1469/1925/1' 6j$i.R;done

for i in {1..9}; do sed -i '23s/1470/1926/1' 6k$i.R;done

for i in {1..9}; do sed -i '23s/1471/1927/1' 6l$i.R;done

**eighteenth-group**

for i in {1..9}; do sed -i '23s/1472/1928/1' 6m$i.R;done

for i in {1..9}; do sed -i '23s/1473/1929/1' 6n$i.R;done

for i in {1..9}; do sed -i '23s/1474/1930/1' 6o$i.R;done

for i in {1..9}; do sed -i '23s/1475/1931/1' 6p$i.R;done

for i in {1..9}; do sed -i '23s/1476/1932/1' 6q$i.R;done

for i in {1..9}; do sed -i '23s/1477/1933/1' 6r$i.R;done

for i in {1..9}; do sed -i '23s/1478/1934/1' 6s$i.R;done

for i in {1..9}; do sed -i '23s/1479/1935/1' 6t$i.R;done

for i in {1..9}; do sed -i '23s/1480/1936/1' 6u$i.R;done

for i in {1..9}; do sed -i '23s/1481/1937/1' 6v$i.R;done

for i in {1..9}; do sed -i '23s/1482/1938/1' 6w$i.R;done

for i in {1..9}; do sed -i '23s/1483/1939/1' 6x$i.R;done

**NINETEENTH GROUP**

for i in {1..9}; do sed -i '23s/1484/1940/1' 6A$i.R;done

for i in {1..9}; do sed -i '23s/1485/1941/1' 6B$i.R;done

for i in {1..9}; do sed -i '23s/1486/1942/1' 6C$i.R;done

for i in {1..9}; do sed -i '23s/1487/1943/1' 6D$i.R;done

for i in {1..9}; do sed -i '23s/1488/1944/1' 6E$i.R;done

for i in {1..9}; do sed -i '23s/1489/1945/1' 6F$i.R;done

for i in {1..9}; do sed -i '23s/1490/1946/1' 6G$i.R;done

for i in {1..9}; do sed -i '23s/1491/1947/1' 6H$i.R;done

for i in {1..9}; do sed -i '23s/1492/1948/1' 6I$i.R;done

for i in {1..9}; do sed -i '23s/1493/1949/1' 6J$i.R;done

for i in {1..9}; do sed -i '23s/1494/1950/1' 6K$i.R;done

for i in {1..9}; do sed -i '23s/1495/1951/1' 6L$i.R;done

**TWENTIETH-group**

for i in {1..9}; do sed -i '23s/1496/1952/1' 6M$i.R;done

for i in {1..9}; do sed -i '23s/1497/1953/1' 6N$i.R;done

for i in {1..9}; do sed -i '23s/1498/1954/1' 6O$i.R;done

for i in {1..9}; do sed -i '23s/1499/1955/1' 6P$i.R;done

for i in {1..9}; do sed -i '23s/1500/1956/1' 6Q$i.R;done

for i in {1..9}; do sed -i '23s/1501/1957/1' 6R$i.R;done

for i in {1..9}; do sed -i '23s/1502/1958/1' 6S$i.R;done

for i in {1..9}; do sed -i '23s/1503/1959/1' 6T$i.R;done

for i in {1..9}; do sed -i '23s/1504/1960/1' 6U$i.R;done

for i in {1..9}; do sed -i '23s/1505/1961/1' 6V$i.R;done

for i in {1..9}; do sed -i '23s/1506/1962/1' 6W$i.R;done

for i in {1..9}; do sed -i '23s/1507/1963/1' 6X$i.R;done

for i in {1..9}; do sed -i '23s/1508/1964/1' 7a$i.R;done

for i in {1..9}; do sed -i '23s/1509/1965/1' 7b$i.R;done

for i in {1..9}; do sed -i '23s/1510/1966/1' 7c$i.R;done

for i in {1..9}; do sed -i '23s/1511/1967/1' 7d$i.R;done

for i in {1..9}; do sed -i '23s/1512/1968/1' 7e$i.R;done

for i in {1..9}; do sed -i '23s/1513/1969/1' 7f$i.R;done

for i in {1..9}; do sed -i '23s/1514/1970/1' 7g$i.R;done

for i in {1..9}; do sed -i '23s/1515/1971/1' 7h$i.R;done

for i in {1..9}; do sed -i '23s/1516/1972/1' 7i$i.R;done

for i in {1..9}; do sed -i '23s/1517/1973/1' 7j$i.R;done

for i in {1..9}; do sed -i '23s/1518/1974/1' 7k$i.R;done

for i in {1..9}; do sed -i '23s/1519/1975/1' 7l$i.R;done

**eighteenth-group**

for i in {1..9}; do sed -i '23s/1520/1976/1' 7m$i.R;done

for i in {1..9}; do sed -i '23s/1521/1977/1' 7n$i.R;done

for i in {1..9}; do sed -i '23s/1522/1978/1' 7o$i.R;done

for i in {1..9}; do sed -i '23s/1523/1979/1' 7p$i.R;done

for i in {1..9}; do sed -i '23s/1524/1980/1' 7q$i.R;done

for i in {1..9}; do sed -i '23s/1525/1981/1' 7r$i.R;done

for i in {1..9}; do sed -i '23s/1526/1982/1' 7s$i.R;done

for i in {1..9}; do sed -i '23s/1527/1983/1' 7t$i.R;done

for i in {1..9}; do sed -i '23s/1528/1984/1' 7u$i.R;done

for i in {1..9}; do sed -i '23s/1529/1985/1' 7v$i.R;done

for i in {1..9}; do sed -i '23s/1530/1986/1' 7w$i.R;done

for i in {1..9}; do sed -i '23s/1531/1987/1' 7x$i.R;done

for i in {1..9}; do sed -i '23s/1532/1988/1' 7A$i.R;done

for i in {1..9}; do sed -i '23s/1533/1989/1' 7B$i.R;done

for i in {1..9}; do sed -i '23s/1534/1990/1' 7C$i.R;done

for i in {1..9}; do sed -i '23s/1535/1991/1' 7D$i.R;done

for i in {1..9}; do sed -i '23s/1536/1992/1' 7E$i.R;done

for i in {1..9}; do sed -i '23s/1537/1993/1' 7F$i.R;done

for i in {1..9}; do sed -i '23s/1538/1994/1' 7G$i.R;done

for i in {1..9}; do sed -i '23s/1539/1995/1' 7H$i.R;done

for i in {1..9}; do sed -i '23s/1540/1996/1' 7I$i.R;done

for i in {1..9}; do sed -i '23s/1541/1997/1' 7J$i.R;done

for i in {1..9}; do sed -i '23s/1542/1998/1' 7K$i.R;done

for i in {1..9}; do sed -i '23s/1543/1999/1' 7L$i.R;done

**TWENTIETH-group**

for i in {1..9}; do sed -i '23s/1544/2000/1' 7M$i.R;done

for i in {1..9}; do sed -i '23s/1545/2001/1' 7N$i.R;done

for i in {1..9}; do sed -i '23s/1546/2002/1' 7O$i.R;done

for i in {1..9}; do sed -i '23s/1547/2003/1' 7P$i.R;done

for i in {1..9}; do sed -i '23s/1548/2004/1' 7Q$i.R;done

for i in {1..9}; do sed -i '23s/1549/2005/1' 7R$i.R;done

for i in {1..9}; do sed -i '23s/1550/2006/1' 7S$i.R;done

for i in {1..9}; do sed -i '23s/1551/2007/1' 7T$i.R;done

for i in {1..9}; do sed -i '23s/1552/2008/1' 7U$i.R;done…………..upto here parameters available

for i in {1..9}; do sed -i '23s/1553/2009/1' 7V$i.R;done

for i in {1..9}; do sed -i '23s/1554/2010/1' 7W$i.R;done

for i in {1..9}; do sed -i '23s/1555/2011/1' 7X$i.R;done

**UPTO HERE**

for i in {1..9}; do sed -i '23s/1556/1993/1' 8a$i.R;done

for i in {1..9}; do sed -i '23s/1557/1994/1' 8b$i.R;done

for i in {1..9}; do sed -i '23s/1558/1995/1' 8c$i.R;done

for i in {1..9}; do sed -i '23s/1559/1996/1' 8d$i.R;done

for i in {1..9}; do sed -i '23s/1560/1997/1' 8e$i.R;done

for i in {1..9}; do sed -i '23s/1561/1998/1' 8f$i.R;done

for i in {1..9}; do sed -i '23s/1562/1999/1' 8g$i.R;done

for i in {1..9}; do sed -i '23s/1563/2000/1' 8h$i.R;done

for i in {1..9}; do sed -i '23s/1564/2001/1' 8i$i.R;done

for i in {1..9}; do sed -i '23s/1565/2002/1' 8j$i.R;done

for i in {1..9}; do sed -i '23s/1566/2003/1' 8k$i.R;done

for i in {1..9}; do sed -i '23s/1567/2004/1' 8l$i.R;done

**eighteenth-group**

for i in {1..9}; do sed -i '23s/1568/1981/1' 8m$i.R;done

for i in {1..9}; do sed -i '23s/1569/1982/1' 8n$i.R;done

for i in {1..9}; do sed -i '23s/1570/1983/1' 8o$i.R;done

for i in {1..9}; do sed -i '23s/1571/1984/1' 8p$i.R;done

for i in {1..9}; do sed -i '23s/1572/1985/1' 8q$i.R;done

for i in {1..9}; do sed -i '23s/1573/1986/1' 8r$i.R;done

for i in {1..9}; do sed -i '23s/1574/1987/1' 8s$i.R;done

for i in {1..9}; do sed -i '23s/1575/1988/1' 8t$i.R;done

for i in {1..9}; do sed -i '23s/1576/1989/1' 8u$i.R;done

for i in {1..9}; do sed -i '23s/1577/1990/1' 8v$i.R;done

for i in {1..9}; do sed -i '23s/1578/1991/1' 8w$i.R;done

for i in {1..9}; do sed -i '23s/1579/1992/1' 8x$i.R;done

for i in {1..9}; do sed -i '23s/1580/1969/1' 8A$i.R;done

for i in {1..9}; do sed -i '23s/1581/1970/1' 8B$i.R;done

for i in {1..9}; do sed -i '23s/1582/1971/1' 8C$i.R;done

for i in {1..9}; do sed -i '23s/1583/1972/1' 8D$i.R;done

for i in {1..9}; do sed -i '23s/1584/1973/1' 8E$i.R;done

for i in {1..9}; do sed -i '23s/1585/1974/1' 8F$i.R;done

for i in {1..9}; do sed -i '23s/1586/1975/1' 8G$i.R;done

for i in {1..9}; do sed -i '23s/1587/1976/1' 8H$i.R;done

for i in {1..9}; do sed -i '23s/1588/1977/1' 8I$i.R;done

for i in {1..9}; do sed -i '23s/1589/1978/1' 8J$i.R;done

for i in {1..9}; do sed -i '23s/1590/1979/1' 8K$i.R;done

for i in {1..9}; do sed -i '23s/1591/1980/1' 8L$i.R;done

**TWENTIETH-group**

for i in {1..9}; do sed -i '23s/1592/1957/1' 8M$i.R;done

for i in {1..9}; do sed -i '23s/1593/1958/1' 8N$i.R;done

for i in {1..9}; do sed -i '23s/1594/1959/1' 8O$i.R;done

for i in {1..9}; do sed -i '23s/1595/1960/1' 8P$i.R;done

for i in {1..9}; do sed -i '23s/1596/1961/1' 8Q$i.R;done

for i in {1..9}; do sed -i '23s/1597/1962/1' 8R$i.R;done

for i in {1..9}; do sed -i '23s/1598/1963/1' 8S$i.R;done

for i in {1..9}; do sed -i '23s/1599/1964/1' 8T$i.R;done

for i in {1..9}; do sed -i '23s/1600/1965/1' 8U$i.R;done

for i in {1..9}; do sed -i '23s/1601/1966/1' 8V$i.R;done

for i in {1..9}; do sed -i '23s/1602/1967/1' 8W$i.R;done

for i in {1..9}; do sed -i '23s/1603/1968/1' 8X$i.R;done

for i in {1..9}; do sed -i '23s/1604/1945/1' 9a$i.R;done

for i in {1..9}; do sed -i '23s/1605/1946/1' 9b$i.R;done

for i in {1..9}; do sed -i '23s/1606/1947/1' 9c$i.R;done

for i in {1..9}; do sed -i '23s/1607/1948/1' 9d$i.R;done

for i in {1..9}; do sed -i '23s/1608/1949/1' 9e$i.R;done

for i in {1..9}; do sed -i '23s/1609/1950/1' 9f$i.R;done

for i in {1..9}; do sed -i '23s/1610/1951/1' 9g$i.R;done

for i in {1..9}; do sed -i '23s/1611/1952/1' 9h$i.R;done

for i in {1..9}; do sed -i '23s/1612/1953/1' 9i$i.R;done

for i in {1..9}; do sed -i '23s/1613/1954/1' 9j$i.R;done

for i in {1..9}; do sed -i '23s/1614/1955/1' 9k$i.R;done

for i in {1..9}; do sed -i '23s/1615/1956/1' 9l$i.R;done

for i in {1..9}; do sed -i '23s/1616/1933/1' 9m$i.R;done

for i in {1..9}; do sed -i '23s/1617/1934/1' 9n$i.R;done

for i in {1..9}; do sed -i '23s/1618/1935/1' 9o$i.R;done

for i in {1..9}; do sed -i '23s/1619/1936/1' 9p$i.R;done

for i in {1..9}; do sed -i '23s/1620/1937/1' 9q$i.R;done

for i in {1..9}; do sed -i '23s/1621/1938/1' 9r$i.R;done

for i in {1..9}; do sed -i '23s/1622/1939/1' 9s$i.R;done

for i in {1..9}; do sed -i '23s/1623/1940/1' 9t$i.R;done

for i in {1..9}; do sed -i '23s/1624/1941/1' 9u$i.R;done

for i in {1..9}; do sed -i '23s/1625/1942/1' 9v$i.R;done

for i in {1..9}; do sed -i '23s/1626/1943/1' 9w$i.R;done

for i in {1..9}; do sed -i '23s/1627/1944/1' 9x$i.R;done

for i in {1..9}; do sed -i '23s/1172/1628/1' 9A$i.R;done

for i in {1..9}; do sed -i '23s/1173/1629/1' 9B$i.R;done

for i in {1..9}; do sed -i '23s/1174/1630/1' 9C$i.R;done

for i in {1..9}; do sed -i '23s/1175/1631/1' 9D$i.R;done

for i in {1..9}; do sed -i '23s/1176/1632/1' 9E$i.R;done

for i in {1..9}; do sed -i '23s/1177/1633/1' 9F$i.R;done

for i in {1..9}; do sed -i '23s/1178/1634/1' 9G$i.R;done

for i in {1..9}; do sed -i '23s/1179/1635/1' 9H$i.R;done

for i in {1..9}; do sed -i '23s/1180/1636/1' 9I$i.R;done

for i in {1..9}; do sed -i '23s/1181/1637/1' 9J$i.R;done

for i in {1..9}; do sed -i '23s/1182/1638/1' 9K$i.R;done

for i in {1..9}; do sed -i '23s/1183/1639/1' 9L$i.R;done

for i in {1..9}; do sed -i '23s/1184/1640/1' 9M$i.R;done

for i in {1..9}; do sed -i '23s/1185/1641/1' 9N$i.R;done

for i in {1..9}; do sed -i '23s/1186/1642/1' 9O$i.R;done

for i in {1..9}; do sed -i '23s/1187/1643/1' 9P$i.R;done

for i in {1..9}; do sed -i '23s/1188/1644/1' 9Q$i.R;done

for i in {1..9}; do sed -i '23s/1189/1645/1' 9R$i.R;done

for i in {1..9}; do sed -i '23s/1190/1646/1' 9S$i.R;done

for i in {1..9}; do sed -i '23s/1191/1647/1' 9T$i.R;done

for i in {1..9}; do sed -i '23s/1192/1648/1' 9U$i.R;done

for i in {1..9}; do sed -i '23s/1193/1649/1' 9V$i.R;done

for i in {1..9}; do sed -i '23s/1194/1650/1' 9W$i.R;done

for i in {1..9}; do sed -i '23s/1195/1651/1' 9X$i.R;done

for i in {1..9}; do sed -i '23s/1196/1652/1' 10a$i.R;done

for i in {1..9}; do sed -i '23s/1197/1653/1' 10b$i.R;done

for i in {1..9}; do sed -i '23s/1198/1654/1' 10c$i.R;done

for i in {1..9}; do sed -i '23s/1199/1655/1' 10d$i.R;done

for i in {1..9}; do sed -i '23s/1200/1656/1' 10e$i.R;done

for i in {1..9}; do sed -i '23s/1201/1657/1' 10f$i.R;done

for i in {1..9}; do sed -i '23s/1202/1658/1' 10g$i.R;done

for i in {1..9}; do sed -i '23s/1203/1659/1' 10h$i.R;done

for i in {1..9}; do sed -i '23s/1204/1660/1' 10i$i.R;done

for i in {1..9}; do sed -i '23s/1205/1661/1' 10j$i.R;done

for i in {1..9}; do sed -i '23s/1206/1662/1' 10k$i.R;done

for i in {1..9}; do sed -i '23s/1207/1663/1' 10l$i.R;done

for i in {1..9}; do sed -i '23s/1208/1664/1' 10m$i.R;done

for i in {1..9}; do sed -i '23s/1209/1665/1' 10n$i.R;done

for i in {1..9}; do sed -i '23s/1210/1666/1' 10o$i.R;done

for i in {1..9}; do sed -i '23s/1211/1667/1' 10p$i.R;done

for i in {1..9}; do sed -i '23s/1212/1668/1' 10q$i.R;done

for i in {1..9}; do sed -i '23s/1213/1669/1' 10r$i.R;done

for i in {1..9}; do sed -i '23s/1214/1670/1' 10s$i.R;done

for i in {1..9}; do sed -i '23s/1215/1671/1' 10t$i.R;done

for i in {1..9}; do sed -i '23s/1216/1672/1' 10u$i.R;done

for i in {1..9}; do sed -i '23s/1217/1673/1' 10v$i.R;done

for i in {1..9}; do sed -i '23s/1218/1674/1' 10w$i.R;done

for i in {1..9}; do sed -i '23s/1219/1675/1' 10x$i.R;done

for i in {1..9}; do sed -i '23s/1220/1676/1' 10A$i.R;done

for i in {1..9}; do sed -i '23s/1221/1677/1' 10B$i.R;done

for i in {1..9}; do sed -i '23s/1222/1678/1' 10C$i.R;done

for i in {1..9}; do sed -i '23s/1223/1679/1' 10D$i.R;done

for i in {1..9}; do sed -i '23s/1224/1680/1' 10E$i.R;done

for i in {1..9}; do sed -i '23s/1225/1681/1' 10F$i.R;done

for i in {1..9}; do sed -i '23s/1226/1682/1' 10G$i.R;done

for i in {1..9}; do sed -i '23s/1227/1683/1' 10H$i.R;done

for i in {1..9}; do sed -i '23s/1228/1684/1' 10I$i.R;done

for i in {1..9}; do sed -i '23s/1229/1685/1' 10J$i.R;done

for i in {1..9}; do sed -i '23s/1230/1686/1' 10K$i.R;done

for i in {1..9}; do sed -i '23s/1231/1687/1' 10L$i.R;done

for i in {1..9}; do sed -i '23s/1688/1036/1' 10M$i.R;done

for i in {1..9}; do sed -i '23s/1233/1689/1' 10N$i.R;done

for i in {1..9}; do sed -i '23s/1690/1690/1' 10O$i.R;done

for i in {1..9}; do sed -i '23s/1235/1691/1' 10P$i.R;done

for i in {1..9}; do sed -i '23s/1236/1692/1' 10Q$i.R;done

for i in {1..9}; do sed -i '23s/1237/1693/1' 10R$i.R;done

for i in {1..9}; do sed -i '23s/1238/1694/1' 10S$i.R;done

for i in {1..9}; do sed -i '23s/1239/1695/1' 10T$i.R;done

for i in {1..9}; do sed -i '23s/1240/1696/1' 10U$i.R;done

for i in {1..9}; do sed -i '23s/1241/1697/1' 10V$i.R;done

for i in {1..9}; do sed -i '23s/1242/1698/1' 10W$i.R;done

for i in {1..9}; do sed -i '23s/1243/1699/1' 10X$i.R;done

UPTO HERE

……………………………

for i in {1..9}; do sed -i '79s/1993/1/1' ts$i.R;done

for i in {1..9}; do sed -i '80s/787/2008/1' ts$i.R;done

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ts/ts$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ts/ts9.R,R\_output=R\_example.out 4.sh

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ts/ts3.R,R\_output=R\_example.out 12.sh

#2016 index

for i in {1..9}; do sed -i '79s/1/1993/1' ts$i.R;done

for i in {1..9}; do sed -i '80s/571/2004/1' ts$i.R;done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/a10.R,R\_output=R\_example.out 4.sh

##SIMPLE array job

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ts/t1.R,R\_output=R\_example.out arry\_job.sh

ucakmil@login06 r\_sh\_files]$ qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/1\_12.R,R\_output=R\_example.out 12.sh

Your job 3590019 ("R\_jobMC\_2") has been submitted

[ucakmil@login06 r\_sh\_files]$ qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/13\_24.R,R\_output=R\_example.out 12.sh

Your job 3590020 ("R\_jobMC\_2") has been submitted

[ucakmil@login06 r\_sh\_files]$ qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/25\_36.R,R\_output=R\_example.out 12.sh

Your job 3590021 ("R\_jobMC\_2") has been submitted

[ucakmil@login06 r\_sh\_files]$ qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/37\_48.R,R\_output=R\_example.out 12.sh

Your job 3590022 ("R\_jobMC\_2") has been submitted

[ucakmil@login06 r\_sh\_files]$ qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/49\_60.R,R\_output=R\_example.out 12.sh

Your job 3590023 ("R\_jobMC\_2") has been submitted

[ucakmil@login06 r\_sh\_files]$ qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/61\_72.R,R\_output=R\_example.out 12.sh

Your job 3590024 ("R\_jobMC\_2") has been submitted

[ucakmil@login06 r\_sh\_files]$ qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/73\_84.R,R\_output=R\_example.out 12.sh

Your job 3590026 ("R\_jobMC\_2") has been submitted

[ucakmil@login06 r\_sh\_files]$ qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/85\_96.R,R\_output=R\_example.out 12.sh

Your job 3590027 ("R\_jobMC\_2") has been submitted

[ucakmil@login06 r\_sh\_files]$ qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/97\_100.R,R\_output=R\_example.out 4.sh

Your job 3590028 ("R\_jobMC\_2") has been submitted

for i in {1..8}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ts/ts$i.R,R\_output=R\_example.out 12.sh ; echo $i; done

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/ts/ts9.R,R\_output=R\_example.out 4.sh

qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/a10.R,R\_output=R\_example.out 5.sh

**Accessing legion remotely:**

* Go to Putty
* Enter Host Name (or IP address)

socrates.ucl.ac.uk (Hit open)

* Enter ucl id and password
* % ssh legion.rc.ucl.ac.uk
* Enter password

**Using R on Legion (on terminal)**

($ export R\_LIBS=/your/local/R/library/path:$R\_LIBS #no need to do it, ignore)

$ module unload compilers

$ module unload mpi

$ module load r/recommended

$ R

##R console will open

>rm(list=ls())

> f<- runif(100)

> write.table(f, “test\_dir/test\_r\_console.txt”) #save it in test\_dir folder in home directory

>q()

# write n when an option pops up

#check file using

[ucakmil@login07 ~]$ cd test\_dir

[ucakmil@login07 test\_dir]$ ls

file\_1.txt file\_2.txt file\_3.txt r\_file.R submit\_R\_rand.sh test\_r\_console.txt

> install.packages(“LatticeKrig”, repos=”http://cran.r-project.org”)

> library(LatticeKrig)

Submitting job\_script

-Refer to the test\_dir in home directory

-there is a .R file (r\_file.R) that needs to be run

-there is a .sh file (job\_script.sh) that runs it

-follow two basic steps to submit a job

-step-1, change directory (cd) to the one which contains your .R and .sh files

[ucakmil@login07 ~]$ cd test\_dir

-step-2, submit job

[ucakmil@login07 test\_dir]$ qsub -v R\_input=/home/ucakmil/test\_dir/r\_file.R,R\_output=R\_example.out job\_script.sh

-check status of the job using

$qstat #qw means queuing and waiting, r means running

-check output of the job using commands

[ucakmil@login07 test\_dir]$ cd .. #go back to the home directory first

[ucakmil@login07 ~]$ #go back to the home directory first

[ucakmil@login07 ~]$ ls Scratch/R\_output\_test #will show i) output of .R file (i.e. 3 .txt files in this case)

# ii) .o and .e file. The .e file will be empty if there is no error in

# running job script. The .o file is also generally empty if script # is running smoothly. iii)R\_example.out will show the #submitted R-script as a console. Use down cursor to see full #code

[ucakmil@login07 ~]$ nano Scratch/R\_output\_test/R\_job\_1.e2403738

[ucakmil@login07 ~]$ nano Scratch/R\_output\_test/R\_job\_1.o2403738

[ucakmil@login07 ~]$ nano Scratch/R\_output\_test/R\_example.out

**Copy lattice kriging median on Legion**

Copy HadCRUT.4.5.0.0.median.nc file from the local machine to Scratch at Legion

(<https://www.youtube.com/watch?v=Sc0f-sxDJy0>)

i) open windows command prompt

go to start <allprograms< type *cmd.exe*<enter or C:\windows\system32\cmd.exe (is path)

ii) download putty pscp.exe in the folder legion\_files\_1 at Desktop (do not run pscp.exe by clicking it) iii) On windows command prompt go to relevant folder or directory

**C:\Users\maryam>cd Desktop/legion\_files\_1**

iv) Run pscp

**C:\Users\maryam\Desktop\legion\_files\_1>pscp**

v) Copy HadCRUT.4.5.0.0.median.nc (in the folder legion\_files\_1) in home directory in Legion

**C:\Users\maryam\Desktop\legion\_files>pscp HadCRUT.4.5.0.0.median.nc ucakmil@legion.rc.ucl.ac.uk:/home/ucakmil/**

(when 100% appears it means download complete check copy by typingon legion **$ls** )

(To copy multiple files from cmd

C:\Users\maryam\Dropbox\PhD UCL\kriging\_and\_FEOFs\post\_upgrade\lk\_ensembles\_hadcrut\_v4\_5\_0\_0\hd\_med>

pscp \*.txt [ucakmil@legion.rc.ucl.ac.uk:/home/ucakmil/](mailto:ucakmil@legion.rc.ucl.ac.uk:/home/ucakmil/) )

We generated a large ensemble of fields that samples uncertainties arising due to lack of nearby temperature observations.  With this ensemble, a raft of probabilistic analyses into observed regional climate change will be possible. We demonstrate this by creating and applying a probabilistic definition of El Niño.

We generated a large ensemble that samples coverage uncertainties in temperatures.  With this ensemble, a raft of probabilistic analyses into observed regional climate change will be possible as is demonstrated by creating a probabilistic definition of El Niño.

This paper will be interest of readers interested across the spectrum of climate change, by providing the data require to assess the role of temperature increases on observed changes in a plethora of systems. We also demonstrate a novel interpolation approach that can be applied across a range of geophysical data - which often has information at multiple length scales.

You can use wc (word count, but you can tell it to count lines with -l).  
qstat | wc -l  
and then subtract 2 for the header lines.

**<LK\_35.R tee LK\_35\_{301..450}.R**

**for i in {2..3}; do sed '6s/1/'$i'/1' LK\_5\_1.R > LK\_5\_$i.R ; done**

**submit jobs simultaneously**

**for i in {1..1000}; do qsub -v R\_input=/home/ucakmil/lkens\_dir/hd5/LK\_5\_$i.R,R\_output=R\_example.out LK\_5.sh ; echo $i; done**

**for i in {1..12}; do qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/a$i.R,R\_output=R\_example.out 12.sh ; echo $i; done**

**qsub -v R\_input=/home/ucakmil/hd\_proj/r\_sh\_files/97\_100.R,R\_output=R\_example.out 4.sh**

**edit two lines of a shell script:**

**[ucakmil@login07 hd5]$**

**for i in {35..100};do sed '29s/5/'$i'/1' LK\_5.sh > LK\_tmp.sh ; sed '45s/5/'$i'/1' LK\_tmp.sh > /home/ucakmil/lkens\_dir/hd$i/LK\_$i.sh;done**

**[ucakmil@login06 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd35.R,Routput=R\_example.out lk\_fr\_p1a\_hd35.sh**

**Your job 2545686 ("R\_job\_1") has been submitted**

**[ucakmil@login06 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd35.R,Routput=R\_example.out lk\_fr\_p1b\_hd35.sh**

**Your job 2545687 ("R\_job\_1") has been submitted**

**[ucakmil@login06 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd35.R,Routput=R\_example.out lk\_fr\_p1c\_hd35.sh**

**Your job 2545688 ("R\_job\_1") has been submitted**

**[ucakmil@login06 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd35.R,Routput=R\_example.out lk\_fr\_p1d\_hd35.sh**

**Your job 2545689 ("R\_job\_1") has been submitted**

**[ucakmil@login06 ver2]$**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd3.R,R\_output=R\_example.out lk\_fr\_p1a\_hd3.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd3.R,R\_output=R\_example.out lk\_fr\_p1b\_hd3.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd3.R,R\_output=R\_example.out lk\_fr\_p1c\_hd3.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd3.R,R\_output=R\_example.out lk\_fr\_p1d\_hd3.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd6.R,R\_output=R\_example.out lk\_fr\_p1a\_hd6.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd6.R,R\_output=R\_example.out lk\_fr\_p1b\_hd6.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd6.R,R\_output=R\_example.out lk\_fr\_p1c\_hd6.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd6.R,R\_output=R\_example.out lk\_fr\_p1d\_hd6.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd9.R,R\_output=R\_example.out lk\_fr\_p1a\_hd9.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd9.R,R\_output=R\_example.out lk\_fr\_p1b\_hd9.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd9.R,R\_output=R\_example.out lk\_fr\_p1c\_hd9.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd9.R,R\_output=R\_example.out lk\_fr\_p1d\_hd9.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd35.R,R\_output=R\_example.out lk\_fr\_p1a\_hd35.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd35.R,R\_output=R\_example.out lk\_fr\_p1b\_hd35.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd35.R,R\_output=R\_example.out lk\_fr\_p1c\_hd35.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd35.R,R\_output=R\_example.out lk\_fr\_p1d\_hd35.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd36.R,R\_output=R\_example.out lk\_fr\_p1b\_hd36.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd36.R,R\_output=R\_example.out lk\_fr\_p1c\_hd36.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd36.R,R\_output=R\_example.out lk\_fr\_p1d\_hd36.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd37.R,R\_output=R\_example.out lk\_fr\_p1c\_hd37.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd37.R,R\_output=R\_example.out lk\_fr\_p1d\_hd37.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd38.R,R\_output=R\_example.out lk\_fr\_p1a\_hd38.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd38.R,R\_output=R\_example.out lk\_fr\_p1b\_hd38.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd38.R,R\_output=R\_example.out lk\_fr\_p1c\_hd38.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd38.R,R\_output=R\_example.out lk\_fr\_p1d\_hd38.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd39.R,R\_output=R\_example.out lk\_fr\_p1b\_hd39.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd39.R,R\_output=R\_example.out lk\_fr\_p1c\_hd39.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd39.R,R\_output=R\_example.out lk\_fr\_p1d\_hd39.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd40.R,R\_output=R\_example.out lk\_fr\_p1c\_hd40.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd40.R,R\_output=R\_example.out lk\_fr\_p1d\_hd40.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd41.R,R\_output=R\_example.out lk\_fr\_p1c\_hd41.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd41.R,R\_output=R\_example.out lk\_fr\_p1d\_hd41.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd42.R,R\_output=R\_example.out lk\_fr\_p1b\_hd42.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd42.R,R\_output=R\_example.out lk\_fr\_p1c\_hd42.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd42.R,R\_output=R\_example.out lk\_fr\_p1d\_hd42.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd43.R,R\_output=R\_example.out lk\_fr\_p1b\_hd43.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd43.R,R\_output=R\_example.out lk\_fr\_p1c\_hd43.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd43.R,R\_output=R\_example.out lk\_fr\_p1d\_hd43.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd44.R,R\_output=R\_example.out lk\_fr\_p1b\_hd44.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd44.R,R\_output=R\_example.out lk\_fr\_p1c\_hd44.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd44.R,R\_output=R\_example.out lk\_fr\_p1d\_hd44.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd45.R,R\_output=R\_example.out lk\_fr\_p1a\_hd45.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd45.R,R\_output=R\_example.out lk\_fr\_p1b\_hd45.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd45.R,R\_output=R\_example.out lk\_fr\_p1c\_hd45.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd45.R,R\_output=R\_example.out lk\_fr\_p1d\_hd45.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd46.R,R\_output=R\_example.out lk\_fr\_p1c\_hd46.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd46.R,R\_output=R\_example.out lk\_fr\_p1d\_hd46.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd47.R,R\_output=R\_example.out lk\_fr\_p1b\_hd47.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd47.R,R\_output=R\_example.out lk\_fr\_p1c\_hd47.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd47.R,R\_output=R\_example.out lk\_fr\_p1d\_hd47.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd48.R,R\_output=R\_example.out lk\_fr\_p1b\_hd48.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd48.R,R\_output=R\_example.out lk\_fr\_p1c\_hd48.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd48.R,R\_output=R\_example.out lk\_fr\_p1d\_hd48.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd49.R,R\_output=R\_example.out lk\_fr\_p1a\_hd49.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd49.R,R\_output=R\_example.out lk\_fr\_p1b\_hd49.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd49.R,R\_output=R\_example.out lk\_fr\_p1c\_hd49.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd49.R,R\_output=R\_example.out lk\_fr\_p1d\_hd49.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd50.R,R\_output=R\_example.out lk\_fr\_p1b\_hd50.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd50.R,R\_output=R\_example.out lk\_fr\_p1c\_hd50.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd50.R,R\_output=R\_example.out lk\_fr\_p1d\_hd50.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd51.R,R\_output=R\_example.out lk\_fr\_p1b\_hd51.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd51.R,R\_output=R\_example.out lk\_fr\_p1c\_hd51.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd51.R,R\_output=R\_example.out lk\_fr\_p1d\_hd51.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd52.R,R\_output=R\_example.out lk\_fr\_p1b\_hd52.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd52.R,R\_output=R\_example.out lk\_fr\_p1c\_hd52.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd52.R,R\_output=R\_example.out lk\_fr\_p1d\_hd52.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd53.R,R\_output=R\_example.out lk\_fr\_p1a\_hd53.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd53.R,R\_output=R\_example.out lk\_fr\_p1b\_hd53.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd53.R,R\_output=R\_example.out lk\_fr\_p1c\_hd53.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd53.R,R\_output=R\_example.out lk\_fr\_p1d\_hd53.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd54.R,R\_output=R\_example.out lk\_fr\_p1c\_hd54.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd54.R,R\_output=R\_example.out lk\_fr\_p1d\_hd54.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd55.R,R\_output=R\_example.out lk\_fr\_p1b\_hd55.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd55.R,R\_output=R\_example.out lk\_fr\_p1c\_hd55.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd55.R,R\_output=R\_example.out lk\_fr\_p1d\_hd55.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd56.R,R\_output=R\_example.out lk\_fr\_p1b\_hd56.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd56.R,R\_output=R\_example.out lk\_fr\_p1c\_hd56.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd56.R,R\_output=R\_example.out lk\_fr\_p1d\_hd56.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd57.R,R\_output=R\_example.out lk\_fr\_p1b\_hd57.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd57.R,R\_output=R\_example.out lk\_fr\_p1c\_hd57.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd57.R,R\_output=R\_example.out lk\_fr\_p1d\_hd57.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd58.R,R\_output=R\_example.out lk\_fr\_p1b\_hd58.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd58.R,R\_output=R\_example.out lk\_fr\_p1c\_hd58.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd58.R,R\_output=R\_example.out lk\_fr\_p1d\_hd58.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd59.R,R\_output=R\_example.out lk\_fr\_p1b\_hd59.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd59.R,R\_output=R\_example.out lk\_fr\_p1c\_hd59.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd59.R,R\_output=R\_example.out lk\_fr\_p1d\_hd59.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd60.R,R\_output=R\_example.out lk\_fr\_p1b\_hd60.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd60.R,R\_output=R\_example.out lk\_fr\_p1c\_hd60.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd60.R,R\_output=R\_example.out lk\_fr\_p1d\_hd60.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd61.R,R\_output=R\_example.out lk\_fr\_p1c\_hd61.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd61.R,R\_output=R\_example.out lk\_fr\_p1d\_hd61.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd62.R,R\_output=R\_example.out lk\_fr\_p1b\_hd62.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd62.R,R\_output=R\_example.out lk\_fr\_p1c\_hd62.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd62.R,R\_output=R\_example.out lk\_fr\_p1d\_hd62.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd63.R,R\_output=R\_example.out lk\_fr\_p1c\_hd63.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd63.R,R\_output=R\_example.out lk\_fr\_p1d\_hd63.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd64.R,R\_output=R\_example.out lk\_fr\_p1b\_hd64.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd64.R,R\_output=R\_example.out lk\_fr\_p1c\_hd64.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd64.R,R\_output=R\_example.out lk\_fr\_p1d\_hd64.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd65.R,R\_output=R\_example.out lk\_fr\_p1a\_hd65.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd65.R,R\_output=R\_example.out lk\_fr\_p1b\_hd65.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd65.R,R\_output=R\_example.out lk\_fr\_p1c\_hd65.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd65.R,R\_output=R\_example.out lk\_fr\_p1d\_hd65.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd66.R,R\_output=R\_example.out lk\_fr\_p1b\_hd66.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd66.R,R\_output=R\_example.out lk\_fr\_p1c\_hd66.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd66.R,R\_output=R\_example.out lk\_fr\_p1d\_hd66.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd67.R,R\_output=R\_example.out lk\_fr\_p1b\_hd67.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd67.R,R\_output=R\_example.out lk\_fr\_p1c\_hd67.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd67.R,R\_output=R\_example.out lk\_fr\_p1d\_hd67.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd68.R,R\_output=R\_example.out lk\_fr\_p1b\_hd68.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd68.R,R\_output=R\_example.out lk\_fr\_p1c\_hd68.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd68.R,R\_output=R\_example.out lk\_fr\_p1d\_hd68.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd69.R,R\_output=R\_example.out lk\_fr\_p1b\_hd69.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd69.R,R\_output=R\_example.out lk\_fr\_p1c\_hd69.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd69.R,R\_output=R\_example.out lk\_fr\_p1d\_hd69.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd70.R,R\_output=R\_example.out lk\_fr\_p1a\_hd70.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd70.R,R\_output=R\_example.out lk\_fr\_p1b\_hd70.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd70.R,R\_output=R\_example.out lk\_fr\_p1c\_hd70.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd70.R,R\_output=R\_example.out lk\_fr\_p1d\_hd70.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd71.R,R\_output=R\_example.out lk\_fr\_p1c\_hd71.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd71.R,R\_output=R\_example.out lk\_fr\_p1d\_hd71.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd72.R,R\_output=R\_example.out lk\_fr\_p1c\_hd72.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd72.R,R\_output=R\_example.out lk\_fr\_p1d\_hd72.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd73.R,R\_output=R\_example.out lk\_fr\_p1b\_hd73.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd73.R,R\_output=R\_example.out lk\_fr\_p1c\_hd73.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd73.R,R\_output=R\_example.out lk\_fr\_p1d\_hd73.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd74.R,R\_output=R\_example.out lk\_fr\_p1b\_hd74.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd74.R,R\_output=R\_example.out lk\_fr\_p1c\_hd74.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd74.R,R\_output=R\_example.out lk\_fr\_p1d\_hd74.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd75.R,R\_output=R\_example.out lk\_fr\_p1b\_hd75.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd75.R,R\_output=R\_example.out lk\_fr\_p1c\_hd75.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd75.R,R\_output=R\_example.out lk\_fr\_p1d\_hd75.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd76.R,R\_output=R\_example.out lk\_fr\_p1c\_hd76.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd76.R,R\_output=R\_example.out lk\_fr\_p1d\_hd76.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd77.R,R\_output=R\_example.out lk\_fr\_p1b\_hd77.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd77.R,R\_output=R\_example.out lk\_fr\_p1c\_hd77.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd77.R,R\_output=R\_example.out lk\_fr\_p1d\_hd77.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd78.R,R\_output=R\_example.out lk\_fr\_p1b\_hd78.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd78.R,R\_output=R\_example.out lk\_fr\_p1c\_hd78.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd78.R,R\_output=R\_example.out lk\_fr\_p1d\_hd78.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd79.R,R\_output=R\_example.out lk\_fr\_p1b\_hd79.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd79.R,R\_output=R\_example.out lk\_fr\_p1c\_hd79.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd79.R,R\_output=R\_example.out lk\_fr\_p1d\_hd79.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd80.R,R\_output=R\_example.out lk\_fr\_p1a\_hd80.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd80.R,R\_output=R\_example.out lk\_fr\_p1b\_hd80.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd80.R,R\_output=R\_example.out lk\_fr\_p1c\_hd80.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd80.R,R\_output=R\_example.out lk\_fr\_p1d\_hd80.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd81.R,R\_output=R\_example.out lk\_fr\_p1b\_hd81.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd81.R,R\_output=R\_example.out lk\_fr\_p1c\_hd81.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd81.R,R\_output=R\_example.out lk\_fr\_p1d\_hd81.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd82.R,R\_output=R\_example.out lk\_fr\_p1b\_hd82.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd82.R,R\_output=R\_example.out lk\_fr\_p1c\_hd82.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd82.R,R\_output=R\_example.out lk\_fr\_p1d\_hd82.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd83.R,R\_output=R\_example.out lk\_fr\_p1b\_hd83.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd83.R,R\_output=R\_example.out lk\_fr\_p1c\_hd83.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd83.R,R\_output=R\_example.out lk\_fr\_p1d\_hd83.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd84.R,R\_output=R\_example.out lk\_fr\_p1a\_hd84.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd84.R,R\_output=R\_example.out lk\_fr\_p1b\_hd84.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd84.R,R\_output=R\_example.out lk\_fr\_p1c\_hd84.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd84.R,R\_output=R\_example.out lk\_fr\_p1d\_hd84.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd85.R,R\_output=R\_example.out lk\_fr\_p1a\_hd85.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd85.R,R\_output=R\_example.out lk\_fr\_p1b\_hd85.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd85.R,R\_output=R\_example.out lk\_fr\_p1c\_hd85.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd85.R,R\_output=R\_example.out lk\_fr\_p1d\_hd85.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd86.R,R\_output=R\_example.out lk\_fr\_p1b\_hd86.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd86.R,R\_output=R\_example.out lk\_fr\_p1c\_hd86.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd86.R,R\_output=R\_example.out lk\_fr\_p1d\_hd86.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd87.R,R\_output=R\_example.out lk\_fr\_p1a\_hd87.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd87.R,R\_output=R\_example.out lk\_fr\_p1b\_hd87.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd87.R,R\_output=R\_example.out lk\_fr\_p1c\_hd87.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd87.R,R\_output=R\_example.out lk\_fr\_p1d\_hd87.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd88.R,R\_output=R\_example.out lk\_fr\_p1b\_hd88.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd88.R,R\_output=R\_example.out lk\_fr\_p1c\_hd88.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd88.R,R\_output=R\_example.out lk\_fr\_p1d\_hd88.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd89.R,R\_output=R\_example.out lk\_fr\_p1b\_hd89.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd89.R,R\_output=R\_example.out lk\_fr\_p1c\_hd89.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd89.R,R\_output=R\_example.out lk\_fr\_p1d\_hd89.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd90.R,R\_output=R\_example.out lk\_fr\_p1c\_hd90.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd90.R,R\_output=R\_example.out lk\_fr\_p1d\_hd90.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd91.R,R\_output=R\_example.out lk\_fr\_p1b\_hd91.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd91.R,R\_output=R\_example.out lk\_fr\_p1c\_hd91.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd91.R,R\_output=R\_example.out lk\_fr\_p1d\_hd91.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd92.R,R\_output=R\_example.out lk\_fr\_p1b\_hd92.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd92.R,R\_output=R\_example.out lk\_fr\_p1c\_hd92.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd92.R,R\_output=R\_example.out lk\_fr\_p1d\_hd92.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd93.R,R\_output=R\_example.out lk\_fr\_p1b\_hd93.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd93.R,R\_output=R\_example.out lk\_fr\_p1c\_hd93.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd93.R,R\_output=R\_example.out lk\_fr\_p1d\_hd93.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd94.R,R\_output=R\_example.out lk\_fr\_p1b\_hd94.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd94.R,R\_output=R\_example.out lk\_fr\_p1c\_hd94.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd94.R,R\_output=R\_example.out lk\_fr\_p1d\_hd94.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd95.R,R\_output=R\_example.out lk\_fr\_p1b\_hd95.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd95.R,R\_output=R\_example.out lk\_fr\_p1c\_hd95.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd95.R,R\_output=R\_example.out lk\_fr\_p1d\_hd95.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd96.R,R\_output=R\_example.out lk\_fr\_p1b\_hd96.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd96.R,R\_output=R\_example.out lk\_fr\_p1c\_hd96.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd96.R,R\_output=R\_example.out lk\_fr\_p1d\_hd96.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd97.R,R\_output=R\_example.out lk\_fr\_p1b\_hd97.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd97.R,R\_output=R\_example.out lk\_fr\_p1c\_hd97.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd97.R,R\_output=R\_example.out lk\_fr\_p1d\_hd97.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd98.R,R\_output=R\_example.out lk\_fr\_p1b\_hd98.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd98.R,R\_output=R\_example.out lk\_fr\_p1c\_hd98.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd98.R,R\_output=R\_example.out lk\_fr\_p1d\_hd98.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd99.R,R\_output=R\_example.out lk\_fr\_p1b\_hd99.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd99.R,R\_output=R\_example.out lk\_fr\_p1c\_hd99.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd99.R,R\_output=R\_example.out lk\_fr\_p1d\_hd99.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd100.R,R\_output=R\_example.out lk\_fr\_p1b\_hd100.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd100.R,R\_output=R\_example.out lk\_fr\_p1c\_hd100.sh**

**qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd100.R,R\_output=R\_example.out lk\_fr\_p1d\_hd100.sh**

i=42

mon\_avg\_lk\_fr\_hdens<- matrix(0, nrow=length(TIME.t), ncol=100)

ann\_avg\_lk\_fr\_hdens<- matrix(0, nrow=length(TIME.t[1:trunc(n/12)]), ncol=100)

AREA\_AVG\_3\_4\_lk<- matrix(0, nrow=n, ncol=n.ens)

##read 100 LK-ensembles and calculate monthly area averages

for(m in 1:100){

g1<- paste("D:/files\_18feb/lk\_ensembles\_hadcrut\_v4\_5\_0\_0/hd\_ens",i,"/p1a/",m,"lkens.txt",sep="")

g2<- paste("D:/files\_18feb/lk\_ensembles\_hadcrut\_v4\_5\_0\_0/hd\_ens",i,"/p1c/",m,"lkens.txt",sep="")

g3<- paste("D:/files\_18feb/lk\_ensembles\_hadcrut\_v4\_5\_0\_0/hd\_ens",i,"/full/",m,"lkens.txt",sep="")

g4<- paste("D:/files\_18feb/lk\_ensembles\_hadcrut\_v4\_5\_0\_0/hd\_ens",i,"/p3/",m,"lkens.txt",sep="")

G1<- read.table(g1)

G2<- read.table(g2)

G3<- read.table(g3)

G4<- read.table(g4)

colnames(G1)<- c()

colnames(G2)<- c()

colnames(G3)<- c()

colnames(G4)<- c()

g1<- rbind(data.matrix(G1),data.matrix(G3[(1:500),-1]), data.matrix(G2[,-1]),data.matrix(G3[(501:999),-1]), data.matrix(G4))

i=43, 46

mon\_avg\_lk\_fr\_hdens<- matrix(0, nrow=length(TIME.t), ncol=100)

ann\_avg\_lk\_fr\_hdens<- matrix(0, nrow=length(TIME.t[1:trunc(n/12)]), ncol=100)

AREA\_AVG\_3\_4\_lk<- matrix(0, nrow=n, ncol=n.ens)

##read 100 LK-ensembles and calculate monthly area averages

for(m in 1:100){

g1<- paste("D:/files\_18feb/lk\_ensembles\_hadcrut\_v4\_5\_0\_0/hd\_ens",i,"/p1a/",m,"lkens.txt",sep="")

g2<- paste("D:/files\_18feb/lk\_ensembles\_hadcrut\_v4\_5\_0\_0/hd\_ens",i,"/p1b/",m,"lkens.txt",sep="")

g3<- paste("D:/files\_18feb/lk\_ensembles\_hadcrut\_v4\_5\_0\_0/hd\_ens",i,"/full/",m,"lkens.txt",sep="")

g4<- paste("D:/files\_18feb/lk\_ensembles\_hadcrut\_v4\_5\_0\_0/hd\_ens",i,"/p3/",m,"lkens.txt",sep="")

G1<- read.table(g1)

G2<- read.table(g2)

G3<- read.table(g3)

G4<- read.table(g4)

colnames(G1)<- c()

colnames(G2)<- c()

colnames(G3)<- c()

colnames(G4)<- c()

g1<- rbind(data.matrix(G1),data.matrix(G2[,-1]), data.matrix(G3[,-1]),data.matrix(G4))

E<- paste("D:/files\_18feb/lk\_ensembles\_hadcrut\_v4\_5\_0\_0/hd\_ens",i,"/",m,"lkens.txt", sep="")

write.table(g1,E)

B1<- array(t(g1),dim=c(length(lon.t), length(lat.t),length(TIME.t)))

mon\_avg\_lk\_fr\_HDENS<- MON\_AVG(B1,lon.t,lat.t)

ann\_avg\_lk\_fr\_hdens[,m]<- ann\_avg(mon\_avg\_lk\_fr\_HDENS[1:hd\_ind],S\_y)

mon\_avg\_lk\_fr\_hdens[,m]<- mon\_avg\_lk\_fr\_HDENS

n3\_4\_lk<- B1[lon3\_4.ind,lat3\_4.ind,]

AREA\_AVG\_3\_4\_lk[,m]<- MON\_AVG(n3\_4\_lk,lon3\_4,lat3\_4) #area average raw SSTs

}

**Introduction to the Unix Shell**

Link to the course slides

<http://development.rc.ucl.ac.uk/training/hptclegion/SWCShell/intro_to_shell.html>

(RITS training resources <http://development.rc.ucl.ac.uk/training/>

**How to link to the Linux machines?**

Two machines can be linked to named aristotle01 and aristotle02 by the following method

(need to remember the machines we have linked to due to various reasons)

**puTTY download**

Download puTTY (available free at desktop@UCL and on google)

<http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>

downloading the exe from **A Windows installer for everything except PuTTYtel**

**start puTTY**

Start, All programs, PuTTY

Host Name (or IP address) aristotle.rc.ucl.ac.uk

Saved Sessions First (name of the session)

Enter UCL username and pswd

(Note that if already a session was saved then we simply need to load it

Type $ls to access existing files and directories. Once the session is saved, its contents will remain saved)

Type $exit to exit putty

**Unix Shell (from laptop)**

* Start “Putty”
* Host name ‘socrates.ucl.ac.uk’
* Hit ‘open’
* Give login and pwd
* Type ‘ssh aristotle.rc.ucl.ac.uk’
* Type pwd again and Aristotle is there

**Exercises: (within round brackets are the notes)**

Write a script that creates five directories named calculation\_?, where ? is a number.

**1)**

[ucakmil@aristotle03 ~]$ nano mk\_dirs.sh

(nano script)

#!/bin/bash

#Dumb method without loop

mkdir calculation\_1 calculation\_2 calculation\_3 calculation\_4 calculation\_5

(when at file name in nano script simply "enter" to get back to the command line)

[ucakmil@aristotle03 ~]$ chmod 755 mk\_dir.sh

(The "755" will give you read, write, and execute permission. Everybody else will get only read and execute permission. If you want your script to be private (i.e., only you can read and execute), use "700" instead.)

[ucakmil@aristotle03 ~]$ ./mk\_dirs.sh (will run the script)

[ucakmil@aristotle03 ~]$ ls (output could be seen in the list of directories)

**2)**

[ucakmil@aristotle03 ~]$ nano mk\_dirs1.sh

(nano script)

#!/bin/bash

#Method using loop with all terms written out

for i in 1 2 3 4 5

do

mkdir calculation\_$i

done

[ucakmil@aristotle03 ~]$ chmod 755 mk\_dirs1.sh

[ucakmil@aristotle03 ~]$ ./mk\_dirs1.sh

[ucakmil@aristotle03 ~]$ ls

**3)**

Similarly, nano script could be written as the following two methods,

# Method using loop running seq to get terms

for i in $(seq 1 5)

do

mkdir calculation\_$i

done

# Method using loop with C syntax

for (( i=1; i<=5; i++ ))

do

mkdir calculation\_$i

done

**Unix Shell Commands:**

* **make a directory (mkdir)**

$mkdir A\_directory (A\_directory is the name of directory to be made) ~ shows that one is in working directory

* **sub directories (directories into directories)** **(mkdir -p)**

$ mkdir -p d\_directory/inside/the\_other

$mkdir -p E\_dir/abc/def/ghi

$ls E\_dir ()

* **change working directory** (**cd**)

$ cd d\_directory/inside/the\_other

* **List contents of all directories (ls)**
* **List all the hidden files and directories (ls -a)**

$ls –a

* **List all the files in directories and sub directories (ls -l)**

$ls –l

* **Remove a directory and its contents (rm -r)**

$ rm –r A\_directory (removing one directory)

$ rm –r A\_directory B\_directory (removing more than one directories)

* **Make new empty files and change the timestamps (i.e., dates and times of the most recent access and modification) of existing files and directories**

$ touch A\_dir (A\_dir is the existing directory)

* **Three new, empty files named *file1*, *file2* and *file3*:**

$touch file1 file2 file3 **Copy a file (cp)**

$ cp b\_file copy\_of\_b\_file (copy\_of\_b\_file is the name of new file)

* **Path of directory or file**

$ pwd c\_file

$ pwd c\_directory

* **Man Pages (Man)**

(These are help pages to explore the arguments of the function. For example, man page of mkdir can be assessed as)

$man mkdir

Press ‘q’ to return to the command prompt

**Legion Details:**

**1) create a directory in your remote machine with the permission of copying files in that**

[ucakmil@login08 ~]$mkdir beta\_dir

[ucakmil@login08 ~]$pwd beta\_dir gives (/home/ucakmil)

[ucakmil@login08 ~]$chmod 777 /home/ucakmil/beta-dir/ (change mode of file to enable other to create files inside)

**2) Copy test\_beta\_4.R file from local computer (at a folder legion\_1 in Desktop) to a remote computer using scp** (secure copy) **client in a directory named beta\_dir**

(help from the link: <https://www.youtube.com/watch?v=Sc0f-sxDJy0>)

i) open windows command prompt

go to start <allprograms< type *cmd.exe*<enter

or

C:\windows\system32\cmd.exe (is path)

ii) download putty pscp.exe in the folder legion\_1 at Desktop (do not run pscp.exe by clicking it)

iii)on windows command prompt type cd Desktop/legion\_1 (relevant folder or directory)

C:\Users\maryam>cd Desktop/legion\_1

iv)type pscp and hit enter

C:\Users\maryam\Desktop\legion\_1>pscp

v) then type pscp beta\_test.R ucakmil@legion.rc.ucl.ac.uk:

C:\Users\maryam\Desktop\legion\_1> pscp test\_beta\_4.R ucakmil@legion.rc.ucl.ac.uk:/home/ucakmil/

vi) type password of legion login and hit enter when 100% appears it means the download completes

vii) login via putty to confirm the copy in the home directory by typing $ls beta\_dir

viii)confirm the contents of the file by typing

$nano /home/ucakmil/beta\_dir/test\_beta\_4.R

**3) Submit R-script (**test\_beta\_4.R**) to legion (https://wiki.rc.ucl.ac.uk/wiki/R\_on\_Legion)**

qsub will submit job

qstat will show the job status (qw means queueing and waiting, E in Eqw means there

was an Error in jobscript and that job will never run)

1. $mkdir /home/ucakmil/Scratch/R\_output
2. $ nano test\_r\_script.sh (general format of shell script to submit R script taken from the website mentioned above)
3. $qsub -v R\_input=`pwd`/test\_beta\_4.R,R\_output=myR\_job.out test\_r\_script.sh (submit job)
4. $nano Scratch/R\_output/R\_job\_1.o1794372
5. $nano Scratch/R\_output/R\_job\_1.e1794372

**tar zcvf $HOME/Scratch/R\_output/files\_from\_job\_$JOB\_ID.tgz $TMPDIR**

**scp** Users/maryam/Dropbox/test.R ucakmil@legion.rc.ucl.ac.uk:/

**ssh** mean secure shell- connect to a remote server

**scp** means secure copy

**cd** means change directory

$ checkuser (**to see the Legion account status**)

**Legion**

LEGION COURSE (26th Nov. & 27th Nov.)

Resources:

Slides:

<http://development.rc.ucl.ac.uk/training/>

HPC and HTC using Legion > HPC and HTC using Legion

day-1 (solutions)

<https://gist.github.com/ikirker/4aaf2134cd4144bcb4d3>

day-2 (exercise solutions)

<https://gist.github.com/ikirker/52e5e08150a5d10fc416>

**Legion Login (from laptop)**

1) start putty

2) enter host name ‘socrates.ucl.ac.uk’ and hit open

3) use legion userid and password to proceed

4) type 'ssh legion.rc.ucl.ac.uk' to connect legion

**From UCL Machines**

1) start putty

2) enter host name 'legion.rc.ucl.ac.uk' and hit open

3) use legion userid and password to proceed

* Start “Putty”
* Host name ‘socrates.ucl.ac.uk’
* Hit ‘open’
* Give login and pwd
* Type ‘ssh aristotle.rc.ucl.ac.uk’
* Type pwd again and Aristotle is there

How to connect from personal laptop?

* Start “Putty”
* Host name ‘socrates.ucl.ac.uk’
* Hit ‘open’
* Give login and pwd
* Type ‘ssh aristotle.rc.ucl.ac.uk’

ssh legion.rc.ucl.ac.uk

* Type pwd again and Aristotle is there

Hi Maryam,

First of all, here’s link to the notes from the course which include the instructions for logging in to Aristotle: [http://development.rc.ucl.ac.uk/training/hptclegion/SWCShell/ HYPERLINK "http://development.rc.ucl.ac.uk/training/hptclegion/SWCShell/intro\_to\_shell.html" HYPERLINK "http://development.rc.ucl.ac.uk/training/hptclegion/SWCShell/intro\_to\_shell.html" HYPERLINK "http://development.rc.ucl.ac.uk/training/hptclegion/SWCShell/intro\_to\_shell.html"i HYPERLINK "http://development.rc.ucl.ac.uk/training/hptclegion/SWCShell/intro\_to\_shell.html" HYPERLINK "http://development.rc.ucl.ac.uk/training/hptclegion/SWCShell/intro\_to\_shell.html" HYPERLINK "http://development.rc.ucl.ac.uk/training/hptclegion/SWCShell/intro\_to\_shell.html"ntro\_to\_shell.html](http://development.rc.ucl.ac.uk/training/hptclegion/SWCShell/intro_to_shell.html)

|  |  |
| --- | --- |
|  | Introduction to the UNIX shell  UCL (University College London) is London's leading multidisciplinary university, with 8,000 staff and 25,000 students.  [Read more...](http://development.rc.ucl.ac.uk/training/hptclegion/SWCShell/intro_to_shell.html) |

To recap, the host name for Aristotle is ‘aristotle.rc.ucl.ac.uk’ and, if you’re on the UCL network, just enter this under hostname in PuTTY and click ‘open’ to connect.

When outside of the UCL network, another option other than using the VPN is to use another machine called Socrates as a gateway. To do this, enter ‘socrates.ucl.ac.uk’ as the hostname in PuTTY, click open, and enter your username and password to log in to Socrates. From here you can login to Aristotle by entering the following command:

ssh aristotle.rc.ucl.ac.uk

…enter your username and password when prompted and this should get you in to Aristotle.

As for the VPN connection, I had a similar error message when I tried it, and the solution was to allow the java applet to run by clicking the pop-up message in the browser. If that doesn’t work for you, you should contact the ISD service desk at [servicedesk@ucl.ac.uk](mailto:servicedesk@ucl.ac.uk) to see if they can help.

Does that answer your question?

Best wishes,

Tom

PROBLEM:

1. Read an r-file from local machine
2. Do computations on Legion
3. Copy the output on local machine

**Login:**

Login using Putty

-Host name : legion.rc.ucl.ac.uk

-Saved session: legion

- Hit open

-Enter user name and password

**1) Make a directory and change restrictions**

* Make a directory

[ucakmil@login09 ~]$ mkdir alpha

* Change mode of directory with no restrictions on permission.

[ucakmil@login09 ~]$ chmod 777 alpha

**2) Copy test\_beta\_4.R file from local computer (at a folder legion\_1 in Desktop) to a remote computer using scp** (secure copy) **client in a directory named alpha**

(help from the link: <https://www.youtube.com/watch?v=Sc0f-sxDJy0>)

i) open windows command prompt

go to start <allprograms< type *cmd.exe*<enter or C:\windows\system32\cmd.exe (is path)

ii) download putty pscp.exe in the folder legion\_1 at Desktop (do not run pscp.exe by clicking it)

iii)on windows command prompt type cd Desktop/legion\_1 (relevant folder or directory)

C:\Users\maryam>cd Desktop/legion\_1

iv)type pscp and hit enter

C:\Users\maryam\Desktop\legion\_1>pscp

v) then type pscp beta\_test.R ucakmil@legion.rc.ucl.ac.uk:

C:\Users\maryam\Desktop\legion\_1> pscp test\_beta\_4.R ucakmil@legion.rc.ucl.ac.uk:/home/ucakmil/alpha/

vi) type password of legion login and hit enter when 100% appears it means download completes

vii) login via putty to confirm the copy in the home directory by typing $ls alpha

viii)confirm the contents of the file by typing

$nano /home/ucakmil/alpha/test\_beta\_4.R

**3) Submit R-script (**test\_beta\_4.R**) to legion (https://wiki.rc.ucl.ac.uk/wiki/R\_on\_Legion)**

qsub will submit job

qstat will show the job status (qw means queueing and waiting, E in Eqw means there

was an Error in jobscript and that job will never run)

1. $mkdir /home/ucakmil/Scratch/R\_output
2. $ nano test\_r\_script.sh (general format of shell script to submit R script

taken from the website mentioned above)

#$ -S /bin/bash

#$ -l h\_rt=0:10:0

#$ -l mem=1G

#$ -N R\_job\_1

#$ -wd /home/ucakmil/Scratch/R\_output

cd $TMPDIR

module unload compilers

module unload mpi

module load r/rocommended

R --no-save $test\_beta\_4.R $R\_output

tar zcvf $HOME/Scratch/R\_output/files\_from\_job\_$JOB\_ID.tgz $TMPDIR

1. $qsub -v R\_input=`pwd`/test\_beta\_4.R,R\_output=myR\_job.out test\_r\_script.sh (submit job)
2. $nano Scratch/R\_output/R\_job\_1.o1794372
3. $nano Scratch/R\_output/R\_job\_1.e1794372

PROBLEM:

1 -login using host name

**Legion.rc.ucl.ac.uk** (hit open)

2- Copy r-file (that is a matrix) from the local machine to Scratch at Legion

(<https://www.youtube.com/watch?v=Sc0f-sxDJy0>)

i) open windows command prompt

go to start <allprograms< type *cmd.exe*<enter or C:\windows\system32\cmd.exe (is path)

ii) download putty pscp.exe in the folder legion\_files at Desktop (do not run pscp.exe by clicking it)

iii) On windows command prompt go to relevant folder or directory

**C:\Users\maryam>cd Desktop/legion\_files**

iv) Run pscp

**C:\Users\maryam\Desktop\legion\_files>pscp**

v) Copy R\_file in the folder legion\_files (test.R) in Scratch directory in Legion

**C:\Users\maryam\Desktop\legion\_files>pscp test.R** [**ucakmil@legion.rc.ucl.ac.uk:/home/ucakmil/Scratch/**](mailto:ucakmil@legion.rc.ucl.ac.uk:/home/ucakmil/Scratch/)

(when 100% appears it means download complete check copy by typingon legion **$ls Scratch**)

(To copy multiple files from cmd

C:\Users\maryam\Dropbox\PhD UCL\kriging\_and\_FEOFs\post\_upgrade\lk\_ensembles\_hadcrut\_v4\_5\_0\_0\hd\_med>

pscp \*.txt [ucakmil@legion.rc.ucl.ac.uk:/home/ucakmil/](mailto:ucakmil@legion.rc.ucl.ac.uk:/home/ucakmil/) )

3- Write shell script that executes R and save the result into a .txt file

4- Copy the input.txt file from the home directory in legion to the folder at desktop (legion\_output) in the local machine

From windows command prompt

**C:\Users\maryam\Desktop\legion\_files>pscp** [**ucakmil@legion.rc.ucl.ac.uk:/home/ucakmil/input.txt**](mailto:ucakmil@legion.rc.ucl.ac.uk:/home/ucakmil/input.txt) **C:/Users/maryam/Desktop/legion\_output**

OR do it by changing directory to legion\_output from windows command prompt

**C:\Users\maryam\Desktop\legion\_files>cd C:/Users/maryam/Desktop/legion\_output**

**C:\Users\maryam\Desktop\legion\_output>pscp**

**C:\Users\maryam\Desktop\legion\_output>pscp** [**ucakmil@legion.rc.ucl.ac.uk:/home/ucakmil/input.txt**](mailto:ucakmil@legion.rc.ucl.ac.uk:/home/ucakmil/input.txt) **./**

(./ means path of working directory legion\_output)

PROBLEM:

1. For a .NC file in my local machine
2. Run an R-Script that
3. reads the file in 1

b- do kriging

c- generates 100 .txt files

1. Copy the output on my local machine

**Running R on terminal on legion**

$module unload compilers

$module unload mpi

$module load r/recommended

$ R

>X<- matrix(runif(2408\*2408), nrow=2408)

>Y<- matrix(runif(2408\*2408), nrow=2408)

>C<- X%\*%Y

> save(file="C.RData",C) #it will be printed in the home directory as an R saved console

>The text file could be generated by copying it to the folder in the local machine using pscp command

> it could also be loaded in legion using

load(“C.RData”)

**Running R using Shell Script (test\_r\_script.sh)**

How to copy the output i.e. C as a .txt file?

cd $TMPDIR if that is included in the shell script what would be the difference?

New Package has to be in the home directory? tar.gz package from local machine to unix shell is not copying?

http://github-pages.ucl.ac.uk/RCPSTrainingMaterials/HPCandHTCusingLegion/7\_exercise\_solutions.html

tar zcvf $HOME/Scratch/R\_output/files\_from\_job\_$JOB\_ID.tgz $TMPDIR

- Accessing legion remotely

- Script submission later

aristotle.rc.ucl.ac.uk,144.82.108.231 ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAAQEA6L3heAnXH0b4IgyGDhye3rvd9bVI6lpluUZJxH5zYFz+qZkjW7PH6jlb9yQID+ckHbkC$

legion.rc.ucl.ac.uk,193.60.225.57 ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAAQEAxXBiVrQmQrfDJYb/+avOZsZr7B5Ehr/zexbx9++2xkG6USG4pJw4lwdnkY6hUONMVzdOkSH1$

144.82.108.233 ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAAQEA6L3heAnXH0b4IgyGDhye3rvd9bVI6lpluUZJxH5zYFz+qZkjW7PH6jlb9yQID+ckHbkCDWETRBHWReZuwG/pZGITPsM$

144.82.111.121 ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAAQEA6L3heAnXH0b4IgyGDhye3rvd9bVI6lpluUZJxH5zYFz+qZkjW7PH6jlb9yQID+ckHbkCDWETRBHWReZuwG/pZGITPsM$

socrates.ucl.ac.uk,144.82.110.1 ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAAIEAuWFvnj3WKaN6OSxfhpHuCLAqrEbgxk76d1evhZB55iROo8WitYJP4NR7wK0C0pjL97Oo88wUSL$

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd3.R,R\_output=R\_example.out lk\_fr\_p1a\_hd3.sh

Your job 2574928 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd3.R,R\_output=R\_example.out lk\_fr\_p1b\_hd3.sh

Your job 2574929 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd3.R,R\_output=R\_example.out lk\_fr\_p1c\_hd3.sh

Your job 2574930 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd3.R,R\_output=R\_example.out lk\_fr\_p1d\_hd3.sh

Your job 2574931 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd6.R,R\_output=R\_example.out lk\_fr\_p1a\_hd6.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd6.R,R\_output=R\_example.out lk\_fr\_p1b\_hd6.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd6.R,R\_output=R\_example.out lk\_fr\_p1c\_hd6.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd6.R,R\_output=R\_example.out lk\_fr\_p1d\_hd6.sh

Your job 2574940 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd6.R,R\_output=R\_example.out lk\_fr\_p1b\_hd6.sh

Your job 2574941 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd6.R,R\_output=R\_example.out lk\_fr\_p1c\_hd6.sh

Your job 2574942 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd6.R,R\_output=R\_example.out lk\_fr\_p1d\_hd6.sh

Your job 2574943 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd9.R,R\_output=R\_example.out lk\_fr\_p1a\_hd9.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd9.R,R\_output=R\_example.out lk\_fr\_p1b\_hd9.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd9.R,R\_output=R\_example.out lk\_fr\_p1c\_hd9.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd9.R,R\_output=R\_example.out lk\_fr\_p1d\_hd9.sh

Your job 2574944 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd9.R,R\_output=R\_example.out lk\_fr\_p1b\_hd9.sh

Your job 2574945 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd9.R,R\_output=R\_example.out lk\_fr\_p1c\_hd9.sh

Your job 2574946 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd9.R,R\_output=R\_example.out lk\_fr\_p1d\_hd9.sh

Your job 2574947 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd35.R,R\_output=R\_example.out lk\_fr\_p1a\_hd35.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd35.R,R\_output=R\_example.out lk\_fr\_p1d\_hd35.sh

Your job 2574948 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd35.R,R\_output=R\_example.out lk\_fr\_p1b\_hd35.sh

Your job 2574949 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd35.R,R\_output=R\_example.out lk\_fr\_p1c\_hd35.sh

Your job 2574950 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd35.R,R\_output=R\_example.out lk\_fr\_p1d\_hd35.sh

Your job 2574951 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd36.R,R\_output=R\_example.out lk\_fr\_p1b\_hd36.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd36.R,R\_output=R\_example.out lk\_fr\_p1c\_hd36.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd36.R,R\_output=R\_example.out lk\_fr\_p1d\_hd36.sh

Your job 2574952 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd36.R,R\_output=R\_example.out lk\_fr\_p1c\_hd36.sh

Your job 2574953 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd36.R,R\_output=R\_example.out lk\_fr\_p1d\_hd36.sh

Your job 2574954 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd37.R,R\_output=R\_example.out lk\_fr\_p1c\_hd37.sh

Your job 2574955 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd37.R,R\_output=R\_example.out lk\_fr\_p1d\_hd37.sh

Your job 2574956 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd38.R,R\_output=R\_example.out lk\_fr\_p1a\_hd38.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd38.R,R\_output=R\_example.out lk\_fr\_p1b\_hd38.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd38.R,R\_output=R\_example.out lk\_fr\_p1c\_hd38.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd38.R,R\_output=R\_example.out lk\_fr\_p1d\_hd38.sh

Your job 2574957 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd38.R,R\_output=R\_example.out lk\_fr\_p1b\_hd38.sh

Your job 2574958 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd38.R,R\_output=R\_example.out lk\_fr\_p1c\_hd38.sh

Your job 2574959 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd38.R,R\_output=R\_example.out lk\_fr\_p1d\_hd38.sh

Your job 2574960 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd39.R,R\_output=R\_example.out lk\_fr\_p1b\_hd39.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd39.R,R\_output=R\_example.out lk\_fr\_p1c\_hd39.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd39.R,R\_output=R\_example.out lk\_fr\_p1d\_hd39.sh

Your job 2574961 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd39.R,R\_output=R\_example.out lk\_fr\_p1c\_hd39.sh

Your job 2574962 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd39.R,R\_output=R\_example.out lk\_fr\_p1d\_hd39.sh

Your job 2574963 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd40.R,R\_output=R\_example.out lk\_fr\_p1c\_hd40.sh

Your job 2574965 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd40.R,R\_output=R\_example.out lk\_fr\_p1d\_hd40.sh

Your job 2574966 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd41.R,R\_output=R\_example.out lk\_fr\_p1c\_hd41.sh

Your job 2574967 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd41.R,R\_output=R\_example.out lk\_fr\_p1d\_hd41.sh

Your job 2574968 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd42.R,R\_output=R\_example.out lk\_fr\_p1b\_hd42.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd42.R,R\_output=R\_example.out lk\_fr\_p1c\_hd42.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd42.R,R\_output=R\_example.out lk\_fr\_p1d\_hd42.sh

Your job 2574969 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd42.R,R\_output=R\_example.out lk\_fr\_p1c\_hd42.sh

Your job 2574970 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd42.R,R\_output=R\_example.out lk\_fr\_p1d\_hd42.sh

Your job 2574971 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd43.R,R\_output=R\_example.out lk\_fr\_p1b\_hd43.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd43.R,R\_output=R\_example.out lk\_fr\_p1c\_hd43.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd43.R,R\_output=R\_example.out lk\_fr\_p1d\_hd43.sh

Your job 2574972 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd43.R,R\_output=R\_example.out lk\_fr\_p1c\_hd43.sh

Your job 2574973 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd43.R,R\_output=R\_example.out lk\_fr\_p1d\_hd43.sh

Your job 2574974 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd44.R,R\_output=R\_example.out lk\_fr\_p1b\_hd44.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd44.R,R\_output=R\_example.out lk\_fr\_p1c\_hd44.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd44.R,R\_output=R\_example.out lk\_fr\_p1d\_hd44.sh

Your job 2574975 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd44.R,R\_output=R\_example.out lk\_fr\_p1c\_hd44.sh

Your job 2574976 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd44.R,R\_output=R\_example.out lk\_fr\_p1d\_hd44.sh

Your job 2574977 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd45.R,R\_output=R\_example.out lk\_fr\_p1a\_hd45.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd45.R,R\_output=R\_example.out lk\_fr\_p1b\_hd45.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd45.R,R\_output=R\_example.out lk\_fr\_p1c\_hd45.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd45.R,R\_output=R\_example.out lk\_fr\_p1d\_hd45.sh

Your job 2574978 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd45.R,R\_output=R\_example.out lk\_fr\_p1b\_hd45.sh

Your job 2574979 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd45.R,R\_output=R\_example.out lk\_fr\_p1c\_hd45.sh

Your job 2574980 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd45.R,R\_output=R\_example.out lk\_fr\_p1d\_hd45.sh

Your job 2574981 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd46.R,R\_output=R\_example.out lk\_fr\_p1c\_hd46.sh

Your job 2574982 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd46.R,R\_output=R\_example.out lk\_fr\_p1d\_hd46.sh

Your job 2574983 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd47.R,R\_output=R\_example.out lk\_fr\_p1b\_hd47.sh

Your job 2574984 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd47.R,R\_output=R\_example.out lk\_fr\_p1c\_hd47.sh

Your job 2574985 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd47.R,R\_output=R\_example.out lk\_fr\_p1d\_hd47.sh

Your job 2574986 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd48.R,R\_output=R\_example.out lk\_fr\_p1b\_hd48.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd48.R,R\_output=R\_example.out lk\_fr\_p1c\_hd48.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd48.R,R\_output=R\_example.out lk\_fr\_p1d\_hd48.sh

Your job 2574987 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd48.R,R\_output=R\_example.out lk\_fr\_p1c\_hd48.sh

Your job 2574988 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd48.R,R\_output=R\_example.out lk\_fr\_p1d\_hd48.sh

Your job 2574989 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd49.R,R\_output=R\_example.out lk\_fr\_p1a\_hd49.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd49.R,R\_output=R\_example.out lk\_fr\_p1d\_hd49.sh

Your job 2574991 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd49.R,R\_output=R\_example.out lk\_fr\_p1b\_hd49.sh

Your job 2574992 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd49.R,R\_output=R\_example.out lk\_fr\_p1c\_hd49.sh

Your job 2574993 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd49.R,R\_output=R\_example.out lk\_fr\_p1d\_hd49.sh

Your job 2574994 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd50.R,R\_output=R\_example.out lk\_fr\_p1b\_hd50.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd50.R,R\_output=R\_example.out lk\_fr\_p1c\_hd50.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd50.R,R\_output=R\_example.out lk\_fr\_p1d\_hd50.sh

Your job 2574995 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd50.R,R\_output=R\_example.out lk\_fr\_p1c\_hd50.sh

Your job 2574996 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd50.R,R\_output=R\_example.out lk\_fr\_p1d\_hd50.sh

Your job 2574997 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd51.R,R\_output=R\_example.out lk\_fr\_p1b\_hd51.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd51.R,R\_output=R\_example.out lk\_fr\_p1c\_hd51.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd51.R,R\_output=R\_example.out lk\_fr\_p1d\_hd51.sh

Your job 2574998 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd51.R,R\_output=R\_example.out lk\_fr\_p1c\_hd51.sh

Your job 2574999 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd51.R,R\_output=R\_example.out lk\_fr\_p1d\_hd51.sh

Your job 2575000 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd52.R,R\_output=R\_example.out lk\_fr\_p1b\_hd52.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd52.R,R\_output=R\_example.out lk\_fr\_p1c\_hd52.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd52.R,R\_output=R\_example.out lk\_fr\_p1d\_hd52.sh

Your job 2575001 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd52.R,R\_output=R\_example.out lk\_fr\_p1c\_hd52.sh

Your job 2575002 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd52.R,R\_output=R\_example.out lk\_fr\_p1d\_hd52.sh

Your job 2575003 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd53.R,R\_output=R\_example.out lk\_fr\_p1a\_hd53.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd53.R,R\_output=R\_example.out lk\_fr\_p1b\_hd53.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd53.R,R\_output=R\_example.out lk\_fr\_p1c\_hd53.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd53.R,R\_output=R\_example.out lk\_fr\_p1d\_hd53.sh

Your job 2575004 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd53.R,R\_output=R\_example.out lk\_fr\_p1b\_hd53.sh

Your job 2575005 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd53.R,R\_output=R\_example.out lk\_fr\_p1c\_hd53.sh

Your job 2575006 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd53.R,R\_output=R\_example.out lk\_fr\_p1d\_hd53.sh

Your job 2575007 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd54.R,R\_output=R\_example.out lk\_fr\_p1c\_hd54.sh

Your job 2575009 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd54.R,R\_output=R\_example.out lk\_fr\_p1d\_hd54.sh

Your job 2575010 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd55.R,R\_output=R\_example.out lk\_fr\_p1b\_hd55.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd55.R,R\_output=R\_example.out lk\_fr\_p1c\_hd55.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd55.R,R\_output=R\_example.out lk\_fr\_p1d\_hd55.sh

Your job 2575011 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd55.R,R\_output=R\_example.out lk\_fr\_p1c\_hd55.sh

Your job 2575012 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd55.R,R\_output=R\_example.out lk\_fr\_p1d\_hd55.sh

Your job 2575013 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd56.R,R\_output=R\_example.out lk\_fr\_p1b\_hd56.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd56.R,R\_output=R\_example.out lk\_fr\_p1d\_hd56.sh

Your job 2575014 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd56.R,R\_output=R\_example.out lk\_fr\_p1c\_hd56.sh

Your job 2575015 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd56.R,R\_output=R\_example.out lk\_fr\_p1d\_hd56.sh

Your job 2575016 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd57.R,R\_output=R\_example.out lk\_fr\_p1b\_hd57.sh

Your job 2575017 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd57.R,R\_output=R\_example.out lk\_fr\_p1c\_hd57.sh

Your job 2575018 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd57.R,R\_output=R\_example.out lk\_fr\_p1d\_hd57.sh

Your job 2575019 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd58.R,R\_output=R\_example.out lk\_fr\_p1b\_hd58.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd58.R,R\_output=R\_example.out lk\_fr\_p1c\_hd58.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd58.R,R\_output=R\_example.out lk\_fr\_p1d\_hd58.sh

Your job 2575021 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd58.R,R\_output=R\_example.out lk\_fr\_p1c\_hd58.sh

Your job 2575022 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd58.R,R\_output=R\_example.out lk\_fr\_p1d\_hd58.sh

Your job 2575023 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd59.R,R\_output=R\_example.out lk\_fr\_p1b\_hd59.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd59.R,R\_output=R\_example.out lk\_fr\_p1c\_hd59.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd59.R,R\_output=R\_example.out lk\_fr\_p1d\_hd59.sh

Your job 2575025 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd59.R,R\_output=R\_example.out lk\_fr\_p1c\_hd59.sh

Your job 2575026 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd59.R,R\_output=R\_example.out lk\_fr\_p1d\_hd59.sh

Your job 2575027 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd60.R,R\_output=R\_example.out lk\_fr\_p1b\_hd60.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd60.R,R\_output=R\_example.out lk\_fr\_p1c\_hd60.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd60.R,R\_output=R\_example.out lk\_fr\_p1d\_hd60.sh

Your job 2575028 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd60.R,R\_output=R\_example.out lk\_fr\_p1c\_hd60.sh

Your job 2575029 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd60.R,R\_output=R\_example.out lk\_fr\_p1d\_hd60.sh

Your job 2575030 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd61.R,R\_output=R\_example.out lk\_fr\_p1c\_hd61.sh

Your job 2575031 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd61.R,R\_output=R\_example.out lk\_fr\_p1d\_hd61.sh

Your job 2575032 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd62.R,R\_output=R\_example.out lk\_fr\_p1b\_hd62.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd62.R,R\_output=R\_example.out lk\_fr\_p1c\_hd62.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd62.R,R\_output=R\_example.out lk\_fr\_p1d\_hd62.sh

Your job 2575033 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd62.R,R\_output=R\_example.out lk\_fr\_p1c\_hd62.sh

Your job 2575034 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd62.R,R\_output=R\_example.out lk\_fr\_p1d\_hd62.sh

Your job 2575035 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd63.R,R\_output=R\_example.out lk\_fr\_p1c\_hd63.sh

Your job 2575036 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd63.R,R\_output=R\_example.out lk\_fr\_p1d\_hd63.sh

Your job 2575037 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd64.R,R\_output=R\_example.out lk\_fr\_p1b\_hd64.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd64.R,R\_output=R\_example.out lk\_fr\_p1c\_hd64.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd64.R,R\_output=R\_example.out lk\_fr\_p1d\_hd64.sh

Your job 2575039 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd64.R,R\_output=R\_example.out lk\_fr\_p1c\_hd64.sh

Your job 2575040 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd64.R,R\_output=R\_example.out lk\_fr\_p1d\_hd64.sh

Your job 2575041 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd65.R,R\_output=R\_example.out lk\_fr\_p1a\_hd65.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd65.R,R\_output=R\_example.out lk\_fr\_p1c\_hd65.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd65.R,R\_output=R\_example.out lk\_fr\_p1d\_hd65.sh

Your job 2575042 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd65.R,R\_output=R\_example.out lk\_fr\_p1b\_hd65.sh

Your job 2575043 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd65.R,R\_output=R\_example.out lk\_fr\_p1c\_hd65.sh

Your job 2575044 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd65.R,R\_output=R\_example.out lk\_fr\_p1d\_hd65.sh

Your job 2575045 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd66.R,R\_output=R\_example.out lk\_fr\_p1b\_hd66.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd66.R,R\_output=R\_example.out lk\_fr\_p1c\_hd66.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd66.R,R\_output=R\_example.out lk\_fr\_p1d\_hd66.sh

Your job 2575046 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd66.R,R\_output=R\_example.out lk\_fr\_p1c\_hd66.sh

Your job 2575047 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd66.R,R\_output=R\_example.out lk\_fr\_p1d\_hd66.sh

Your job 2575048 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd67.R,R\_output=R\_example.out lk\_fr\_p1b\_hd67.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd67.R,R\_output=R\_example.out lk\_fr\_p1c\_hd67.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd67.R,R\_output=R\_example.out lk\_fr\_p1d\_hd67.sh

Your job 2575049 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd67.R,R\_output=R\_example.out lk\_fr\_p1c\_hd67.sh

Your job 2575050 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd67.R,R\_output=R\_example.out lk\_fr\_p1d\_hd67.sh

Your job 2575051 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd68.R,R\_output=R\_example.out lk\_fr\_p1b\_hd68.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd68.R,R\_output=R\_example.out lk\_fr\_p1c\_hd68.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd68.R,R\_output=R\_example.out lk\_fr\_p1d\_hd68.sh

Your job 2575052 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd68.R,R\_output=R\_example.out lk\_fr\_p1c\_hd68.sh

Your job 2575053 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd68.R,R\_output=R\_example.out lk\_fr\_p1d\_hd68.sh

Your job 2575054 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd69.R,R\_output=R\_example.out lk\_fr\_p1b\_hd69.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd69.R,R\_output=R\_example.out lk\_fr\_p1d\_hd69.sh

Your job 2575055 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd69.R,R\_output=R\_example.out lk\_fr\_p1c\_hd69.sh

Your job 2575056 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd69.R,R\_output=R\_example.out lk\_fr\_p1d\_hd69.sh

Your job 2575057 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd70.R,R\_output=R\_example.out lk\_fr\_p1a\_hd70.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd70.R,R\_output=R\_example.out lk\_fr\_p1b\_hd70.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd70.R,R\_output=R\_example.out lk\_fr\_p1c\_hd70.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd70.R,R\_output=R\_example.out lk\_fr\_p1d\_hd70.sh

Your job 2575058 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd70.R,R\_output=R\_example.out lk\_fr\_p1b\_hd70.sh

Your job 2575059 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd70.R,R\_output=R\_example.out lk\_fr\_p1c\_hd70.sh

Your job 2575060 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd70.R,R\_output=R\_example.out lk\_fr\_p1d\_hd70.sh

Your job 2575061 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd71.R,R\_output=R\_example.out lk\_fr\_p1c\_hd71.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd71.R,R\_output=R\_example.out lk\_fr\_p1d\_hd71.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd72.R,R\_output=R\_example.out lk\_fr\_p1c\_hd72.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd72.R,R\_output=R\_example.out lk\_fr\_p1d\_hd72.sh

Your job 2575062 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd71.R,R\_output=R\_example.out lk\_fr\_p1d\_hd71.sh

Your job 2575063 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd72.R,R\_output=R\_example.out lk\_fr\_p1c\_hd72.sh

Your job 2575064 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd72.R,R\_output=R\_example.out lk\_fr\_p1d\_hd72.sh

Your job 2575065 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd73.R,R\_output=R\_example.out lk\_fr\_p1b\_hd73.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd73.R,R\_output=R\_example.out lk\_fr\_p1c\_hd73.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd73.R,R\_output=R\_example.out lk\_fr\_p1d\_hd73.sh

Your job 2575066 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd73.R,R\_output=R\_example.out lk\_fr\_p1c\_hd73.sh

Your job 2575067 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd73.R,R\_output=R\_example.out lk\_fr\_p1d\_hd73.sh

Your job 2575068 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd74.R,R\_output=R\_example.out lk\_fr\_p1b\_hd74.sh

Your job 2575070 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd74.R,R\_output=R\_example.out lk\_fr\_p1c\_hd74.sh

Your job 2575071 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd74.R,R\_output=R\_example.out lk\_fr\_p1d\_hd74.sh

Your job 2575072 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd75.R,R\_output=R\_example.out lk\_fr\_p1b\_hd75.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd75.R,R\_output=R\_example.out lk\_fr\_p1c\_hd75.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd75.R,R\_output=R\_example.out lk\_fr\_p1d\_hd75.sh

Your job 2575073 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd75.R,R\_output=R\_example.out lk\_fr\_p1c\_hd75.sh

Your job 2575074 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd75.R,R\_output=R\_example.out lk\_fr\_p1d\_hd75.sh

Your job 2575075 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd76.R,R\_output=R\_example.out lk\_fr\_p1c\_hd76.sh

Your job 2575076 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd76.R,R\_output=R\_example.out lk\_fr\_p1d\_hd76.sh

Your job 2575077 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd77.R,R\_output=R\_example.out lk\_fr\_p1b\_hd77.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd77.R,R\_output=R\_example.out lk\_fr\_p1c\_hd77.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd77.R,R\_output=R\_example.out lk\_fr\_p1d\_hd77.sh

Your job 2575078 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd77.R,R\_output=R\_example.out lk\_fr\_p1c\_hd77.sh

Your job 2575079 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd77.R,R\_output=R\_example.out lk\_fr\_p1d\_hd77.sh

Your job 2575080 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd78.R,R\_output=R\_example.out lk\_fr\_p1b\_hd78.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd78.R,R\_output=R\_example.out lk\_fr\_p1d\_hd78.sh

Your job 2575081 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd78.R,R\_output=R\_example.out lk\_fr\_p1c\_hd78.sh

Your job 2575082 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd78.R,R\_output=R\_example.out lk\_fr\_p1d\_hd78.sh

Your job 2575083 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd79.R,R\_output=R\_example.out lk\_fr\_p1b\_hd79.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd79.R,R\_output=R\_example.out lk\_fr\_p1c\_hd79.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd79.R,R\_output=R\_example.out lk\_fr\_p1d\_hd79.sh

Your job 2575084 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd79.R,R\_output=R\_example.out lk\_fr\_p1c\_hd79.sh

Your job 2575085 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd79.R,R\_output=R\_example.out lk\_fr\_p1d\_hd79.sh

Your job 2575086 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd80.R,R\_output=R\_example.out lk\_fr\_p1a\_hd80.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd80.R,R\_output=R\_example.out lk\_fr\_p1b\_hd80.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd80.R,R\_output=R\_example.out lk\_fr\_p1c\_hd80.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd80.R,R\_output=R\_example.out lk\_fr\_p1d\_hd80.sh

Your job 2575087 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd80.R,R\_output=R\_example.out lk\_fr\_p1b\_hd80.sh

Your job 2575088 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd80.R,R\_output=R\_example.out lk\_fr\_p1c\_hd80.sh

Your job 2575089 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd80.R,R\_output=R\_example.out lk\_fr\_p1d\_hd80.sh

Your job 2575090 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd81.R,R\_output=R\_example.out lk\_fr\_p1b\_hd81.sh

Your job 2575091 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd81.R,R\_output=R\_example.out lk\_fr\_p1c\_hd81.sh

Your job 2575092 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd81.R,R\_output=R\_example.out lk\_fr\_p1d\_hd81.sh

Your job 2575093 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd82.R,R\_output=R\_example.out lk\_fr\_p1b\_hd82.sh

Your job 2575094 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd82.R,R\_output=R\_example.out lk\_fr\_p1c\_hd82.sh

Your job 2575095 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd82.R,R\_output=R\_example.out lk\_fr\_p1d\_hd82.sh

Your job 2575096 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd83.R,R\_output=R\_example.out lk\_fr\_p1b\_hd83.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd83.R,R\_output=R\_example.out lk\_fr\_p1c\_hd83.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd83.R,R\_output=R\_example.out lk\_fr\_p1d\_hd83.sh

Your job 2575097 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd83.R,R\_output=R\_example.out lk\_fr\_p1c\_hd83.sh

Your job 2575098 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd83.R,R\_output=R\_example.out lk\_fr\_p1d\_hd83.sh

Your job 2575099 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd84.R,R\_output=R\_example.out lk\_fr\_p1a\_hd84.sh

Your job 2575100 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd84.R,R\_output=R\_example.out lk\_fr\_p1b\_hd84.sh

Your job 2575101 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd84.R,R\_output=R\_example.out lk\_fr\_p1c\_hd84.sh

Your job 2575102 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd84.R,R\_output=R\_example.out lk\_fr\_p1d\_hd84.sh

Your job 2575103 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd85.R,R\_output=R\_example.out lk\_fr\_p1a\_hd85.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd85.R,R\_output=R\_example.out lk\_fr\_p1b\_hd85.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd85.R,R\_output=R\_example.out lk\_fr\_p1c\_hd85.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd85.R,R\_output=R\_example.out lk\_fr\_p1d\_hd85.sh

Your job 2575104 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd85.R,R\_output=R\_example.out lk\_fr\_p1b\_hd85.sh

Your job 2575105 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd85.R,R\_output=R\_example.out lk\_fr\_p1c\_hd85.sh

Your job 2575106 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd85.R,R\_output=R\_example.out lk\_fr\_p1d\_hd85.sh

Your job 2575107 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd86.R,R\_output=R\_example.out lk\_fr\_p1b\_hd86.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd86.R,R\_output=R\_example.out lk\_fr\_p1c\_hd86.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd86.R,R\_output=R\_example.out lk\_fr\_p1d\_hd86.sh

Your job 2575108 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd86.R,R\_output=R\_example.out lk\_fr\_p1c\_hd86.sh

Your job 2575109 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd86.R,R\_output=R\_example.out lk\_fr\_p1d\_hd86.sh

Your job 2575110 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1a\_hd87.R,R\_output=R\_example.out lk\_fr\_p1a\_hd87.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd87.R,R\_output=R\_example.out lk\_fr\_p1b\_hd87.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd87.R,R\_output=R\_example.out lk\_fr\_p1c\_hd87.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd87.R,R\_output=R\_example.out lk\_fr\_p1d\_hd87.sh

Your job 2575111 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd87.R,R\_output=R\_example.out lk\_fr\_p1b\_hd87.sh

Your job 2575112 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd87.R,R\_output=R\_example.out lk\_fr\_p1c\_hd87.sh

Your job 2575113 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd87.R,R\_output=R\_example.out lk\_fr\_p1d\_hd87.sh

Your job 2575114 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd88.R,R\_output=R\_example.out lk\_fr\_p1b\_hd88.sh

Your job 2575115 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd88.R,R\_output=R\_example.out lk\_fr\_p1c\_hd88.sh

Your job 2575116 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd88.R,R\_output=R\_example.out lk\_fr\_p1d\_hd88.sh

Your job 2575117 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd89.R,R\_output=R\_example.out lk\_fr\_p1b\_hd89.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd89.R,R\_output=R\_example.out lk\_fr\_p1d\_hd89.sh

Your job 2575119 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd89.R,R\_output=R\_example.out lk\_fr\_p1c\_hd89.sh

Your job 2575120 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd89.R,R\_output=R\_example.out lk\_fr\_p1d\_hd89.sh

Your job 2575121 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd90.R,R\_output=R\_example.out lk\_fr\_p1c\_hd90.sh

Your job 2575122 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd90.R,R\_output=R\_example.out lk\_fr\_p1d\_hd90.sh

Your job 2575123 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd91.R,R\_output=R\_example.out lk\_fr\_p1b\_hd91.sh

Your job 2575124 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd91.R,R\_output=R\_example.out lk\_fr\_p1c\_hd91.sh

Your job 2575125 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd91.R,R\_output=R\_example.out lk\_fr\_p1d\_hd91.sh

Your job 2575126 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd92.R,R\_output=R\_example.out lk\_fr\_p1b\_hd92.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd92.R,R\_output=R\_example.out lk\_fr\_p1c\_hd92.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd92.R,R\_output=R\_example.out lk\_fr\_p1d\_hd92.sh

Your job 2575127 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd92.R,R\_output=R\_example.out lk\_fr\_p1c\_hd92.sh

Your job 2575128 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd92.R,R\_output=R\_example.out lk\_fr\_p1d\_hd92.sh

Your job 2575129 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd93.R,R\_output=R\_example.out lk\_fr\_p1b\_hd93.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd93.R,R\_output=R\_example.out lk\_fr\_p1c\_hd93.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd93.R,R\_output=R\_example.out lk\_fr\_p1d\_hd93.sh

Your job 2575131 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd93.R,R\_output=R\_example.out lk\_fr\_p1c\_hd93.sh

Your job 2575132 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd93.R,R\_output=R\_example.out lk\_fr\_p1d\_hd93.sh

Your job 2575133 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd94.R,R\_output=R\_example.out lk\_fr\_p1b\_hd94.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd94.R,R\_output=R\_example.out lk\_fr\_p1c\_hd94.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd94.R,R\_output=R\_example.out lk\_fr\_p1d\_hd94.sh

Your job 2575134 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd94.R,R\_output=R\_example.out lk\_fr\_p1c\_hd94.sh

Your job 2575135 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd94.R,R\_output=R\_example.out lk\_fr\_p1d\_hd94.sh

Your job 2575136 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd95.R,R\_output=R\_example.out lk\_fr\_p1b\_hd95.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd95.R,R\_output=R\_example.out lk\_fr\_p1c\_hd95.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd95.R,R\_output=R\_example.out lk\_fr\_p1d\_hd95.sh

Your job 2575137 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd95.R,R\_output=R\_example.out lk\_fr\_p1c\_hd95.sh

Your job 2575138 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd95.R,R\_output=R\_example.out lk\_fr\_p1d\_hd95.sh

Your job 2575139 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd96.R,R\_output=R\_example.out lk\_fr\_p1b\_hd96.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd96.R,R\_output=R\_example.out lk\_fr\_p1c\_hd96.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd96.R,R\_output=R\_example.out lk\_fr\_p1d\_hd96.sh

Your job 2575140 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd96.R,R\_output=R\_example.out lk\_fr\_p1c\_hd96.sh

Your job 2575141 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd96.R,R\_output=R\_example.out lk\_fr\_p1d\_hd96.sh

Your job 2575142 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd97.R,R\_output=R\_example.out lk\_fr\_p1b\_hd97.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd97.R,R\_output=R\_example.out lk\_fr\_p1c\_hd97.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd97.R,R\_output=R\_example.out lk\_fr\_p1d\_hd97.sh

Your job 2575143 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd97.R,R\_output=R\_example.out lk\_fr\_p1c\_hd97.sh

Your job 2575144 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd97.R,R\_output=R\_example.out lk\_fr\_p1d\_hd97.sh

Your job 2575145 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd98.R,R\_output=R\_example.out lk\_fr\_p1b\_hd98.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd98.R,R\_output=R\_example.out lk\_fr\_p1c\_hd98.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd98.R,R\_output=R\_example.out lk\_fr\_p1d\_hd98.sh

Your job 2575152 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd98.R,R\_output=R\_example.out lk\_fr\_p1c\_hd98.sh

Your job 2575153 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd98.R,R\_output=R\_example.out lk\_fr\_p1d\_hd98.sh

Your job 2575154 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd99.R,R\_output=R\_example.out lk\_fr\_p1b\_hd99.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd99.R,R\_output=R\_example.out lk\_fr\_p1d\_hd99.sh

Your job 2575158 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd99.R,R\_output=R\_example.out lk\_fr\_p1c\_hd99.sh

Your job 2575159 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd99.R,R\_output=R\_example.out lk\_fr\_p1d\_hd99.sh

Your job 2575160 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1b\_hd100.R,R\_output=R\_example.out lk\_fr\_p1b\_hd100.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd100.R,R\_output=R\_example.out lk\_fr\_p1c\_hd100.sh

qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd100.R,R\_output=R\_example.out lk\_fr\_p1d\_hd100.sh

Your job 2575161 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1c\_hd100.R,R\_output=R\_example.out lk\_fr\_p1c\_hd100.sh

Your job 2575162 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$ qsub -v R\_input=/home/ucakmil/lkens\_dir/ver2/lk\_fr\_p1d\_hd100.R,R\_output=R\_example.out lk\_fr\_p1d\_hd100.sh

Your job 2575163 ("R\_job\_1") has been submitted

[ucakmil@login07 ver2]$

Temperature measurements are subject to uncertainties. Observational uncertainties come from the non-climatic factors (e.g. station movements, changes in instruments, observing practices, urbanization). Coverage uncertainties arise from the lack of spatial coverage of temperature fields. In other words, it is the uncertainty associated with interpolation estimates. The HadCRUT4 ensemble members present the observational uncertainties in temperatures. The temperature fields are sparse. We use the multi-resolution lattice kriging proposed for the full spherical domain. We extend the temperature anomalies over the whole planet and quantify coverage uncertainties in these predicted temperature fields. We generated an ensemble sampling coverage uncertainties in HadCRUT4 temperature anomalies. These uncertainties are higher in the past at the global scale. The uncertainties in temperatures propagate to the classification of ENSO. Therefore, we define the ENSO classification to cope with the uncertainties in temperatures. The assessment of these uncertainties reveals that coverage uncertainties dominate early records. Hence, the impact of uncertainties is significant at the regional scale as well.

The HadCRUT4 ensemble members present the observational uncertainties in temperatures arising from the non-climatic factors (e.g. station movements, incorrect station merges, changes in instruments, observing practices, urbanization). However, gridded uncertainties due to lack of spatial coverage is not yet quantified in these sparsely observed temperature fields. We use the multi-resolution lattice kriging proposed for the full spherical domain. We extend the temperature anomalies over the whole planet and quantifies spatial uncertainties in these predicted temperature fields efficiently, compared to the classical kriging approaches. These coverage and observational uncertainties in temperatures both propagate to the classification of ENSO, with sometimes a resulting undetermined ENSO state. The assessment of these uncertainties reveals that spatial uncertainties are larger than observational uncertainties in temperatures and in the ENSO events. Furthermore, spatial uncertainties dominate early records and data sparse regions.

#check ith time point

rm(list=ls())

I=c(12, 24,36,48,96,100)

j=100

v3<- c(NA,length(I))

for(i in 1:length(I)){

filename=paste("/home/ucakmil/Scratch/lk\_par\_ens/hd\_ens",I[i],"/ensemble",j,".nc",sep="") ##\*\*for legion

ncnew<- nc\_open(filename, write=TRUE)#nc\_create(filename, list(var\_temp)) #for first months

VV<- ncvar\_get(ncnew,"temperature")

v2<- VV[,,1]

v3[i]<- length(v2[is.na(v2)])

}

# dim(VV)

#VV[,,137]

#VV[72,36,137]

#VV[72,,137]

#VV[,36,137]

#v2<- VV[,,138]

# length(v2[is.na(v2)])

Impact on monthly area average

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| # of iterations | tol.thresh (retained values) | a.wght  (mean,sd) | lambda  (mean,sd) | monthly average | 95% CI | width of CI |
| 100 | 1.8 (10) | (1.4, 0.4) | (0.79,0.59) | -0.6 | (-1.12,0.02) | 1.18 |
| 250 | 1.9 (25) | (1.37,0.49) | (1.005,0.507) | -0.55 | (-0.79,0.012) | 0.809 |
| 250 | 1.5 (10) | (1.5,0.4) | (0.9,0.37) | -0.603 | (-1.12,-0.045) | 1.078 |
| 500 | 2.03(50) | (1.4,0.5) | (0.97,0.52) | -0.59 | (-0.8,-0.3) | 0.57 |
| 500 | 1.5(25) | (1.36,0.54) | (1.01,0.407) | -0.55 | (-0.76,-0.04) | 0.71 |
| 1000 | 1.9 (100) | (1.32,0.4) | (0.92,0.5) | -0.59 | (-0.6,-0.26) | 0.334 |
| 1000 | 1.5 (50) | (1.43,0.4) | (0.84,0.4) | -0.59 | (-0.8,-0.27) | 0.54 |

For # of iteration=100

|  |  |  |  |
| --- | --- | --- | --- |
| # of ensembles | monthly average | 95% CI | width of CI |
| 10x10=100 | -0.6 | (-1.12,0.02) | 1.18 |
| 10x20=200 | -0.62 | (-1.2,0.03) | 1.23 |
| 10x50=500 | -0.6 | (-1.03, 0.12) | 1.15 |
| 10x100=1000 | -0.62 | (-1.03,0.06) | 1.09 |

ann\_avg (lk) = -0.5196682 (-0.8206147, -0.2408499), rng= 0.5797648

ann\_avg(lk\_ens) = -0.5323653 (-0.7877465, -0.2570814), rng=0.5306651

#monthly 1861

> cbind(med,L,U,U-L)

med L U U-L (lk only) U-L (lk\_par)

133 -1.19867442 -1.5457951 -0.81022133 0.7355737 1.0582840

134 -0.90444295 -1.2804189 -0.55069299 0.7297259 1.2040811

135 -0.64341377 -1.0308437 -0.29483596 0.7360077 0.7876871

136 -0.40140636 -0.8199299 0.06844621 0.8883761 1.0092645

137 -0.64160364 -1.0505160 -0.29045557 0.7600604 1.3090367

138 -0.22826911 -0.5714680 0.10136393 0.6728320 1.0922333

139 -0.34633439 -0.6930636 -0.04044634 0.6526173 0.9445093

140 -0.05593354 -0.2950079 0.18587246 0.4808803 0.4731302

141 -0.31151918 -0.5263743 -0.08004970 0.4463246 0.4727676

142 -0.47487092 -0.7786586 -0.21746901 0.5611896 0.5207256

143 -0.53620798 -0.8995545 -0.16546634 0.7340882 0.7072640

144 -0.47224503 -0.8666747 -0.14620548 0.7204692 0.8257351

Based on 100 parametric values

U-L

U-L

1 2 3 4 5 6 7 8

0.6089136 0.2586139 0.3154692 0.5245423 0.2922179 0.3065835 0.2813635 0.2658798

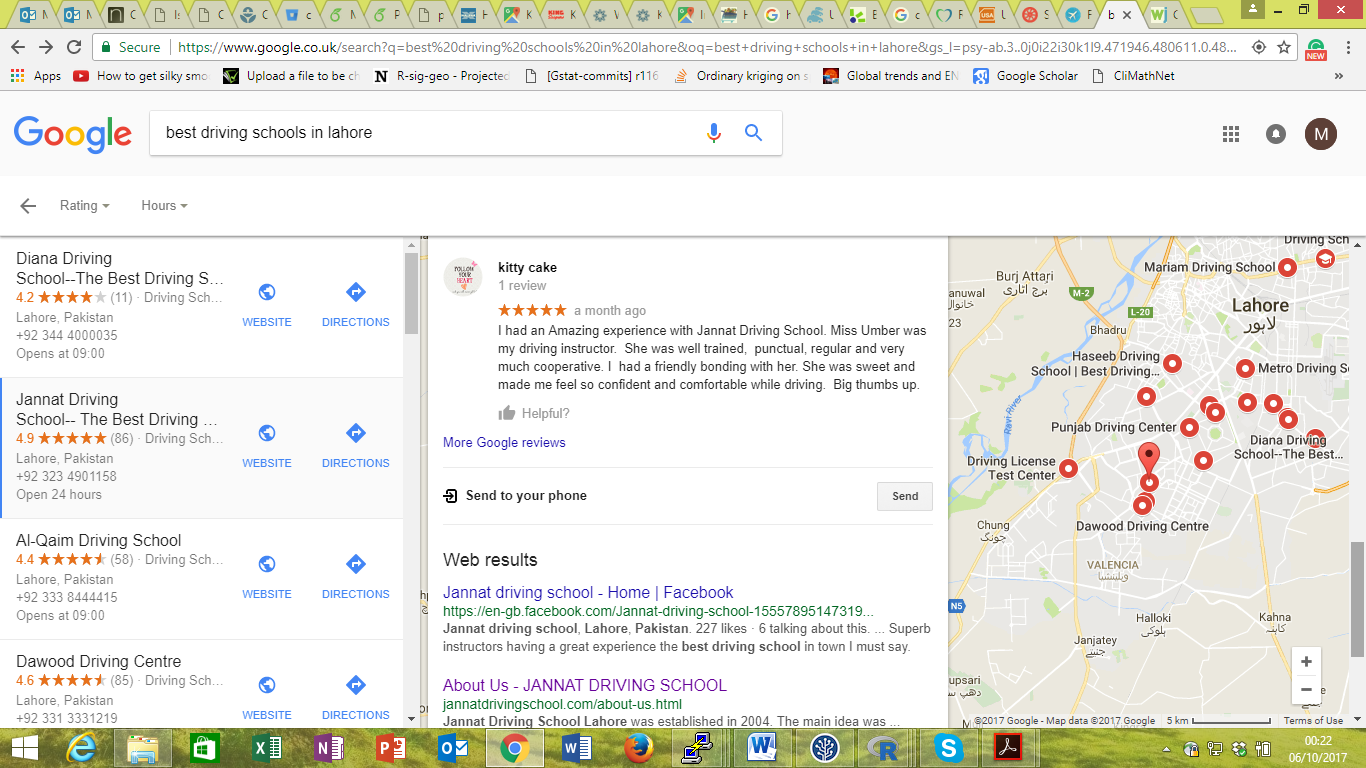
9 10 11 12

0.2268073 0.2255306 0.2367161 0.2817014

* Identify years crossing 1.5oC (based on model data) .

2a- Average temperature of each grid cell (based on models data)

2b-



qsub -v R\_input=/home/ucakmil/TS/ts10.R,R\_output=R\_example.out array\_job.sh

for i in {1..20}; do qsub -v R\_input=/home/ucakmil/r\_sh\_files/SS$i.R,R\_output=R\_example.out 5\_new.sh ; echo $i; done