

a2/FW/run_on_queue.sh

```
1 #!/bin/bash
2
3 #PBS -N run_fw_sr_p
4
5 ## Output error
6 #PBS -o run_fw_sr_p.pbs_out
7 #PBS -e run_fw_sr_p.pbs_err
8
9 ## Sandman, serial queue, 64 threads
10 #PBS -q serial
11 #PBS -l nodes=sandman:ppn=64
12
13 #PBS -l walltime=01:00:00
14
15 cd /home/parallel/parlab05/a2/FW
16
17 module load openmp
18
19 N_VALUES="1024 2048 4096"
20
21 # Block size
22 B=64
23
24 OUTDIR="benchmarks"
25 mkdir -p "$OUTDIR"
26
27 for N in $N_VALUES; do
28     for T in 1 2 4 8 16 32 64; do
29
30         export OMP_NUM_THREADS=$T
31         echo "Running N=$N, B=$B, threads=$T"
32
33         #outputs
34         OUT="${OUTDIR}/fw_sr_p_N${N}_T${T}.out"
35         ERR="${OUTDIR}/fw_sr_p_N${N}_T${T}.err"
36
37         # - stdout → OUT
38         # - stderr → ERR
39         ./fw_sr_p "$N" "$B" >"$OUT" 2>"$ERR"
40     done
41 done
42
43
```