

```
#####  
#  
#  
#  
#####
```

Makefile

```
CFLAGS = -Wall -O3 -I.././src -L.././lib
```

```
allclean: nocr clean routing-seq routing-par run-seq run-par
```

```
all: nocr routing-seq routing-par run-seq run-par
```

```
me:
```

```
    make run_all_tests > out-make.txt &
```

```
run_all_tests: nocr clean routing-seq routing-par run_tests
```

```
allclean2: clean routing-seq routing-par run-seq run-par
```

```
parclean: nocr cleanpar routing-par run-par
```

```
par: nocr routing-par run-par
```

```
seqagain: nocr cleanseq routing-seq run-seq
```

```
seq: nocr routing-seq run-seq
```

```
again: nocr clean routing-par routing-seq run
```

```
nocr:
```

```
    tr -d '\015' < routing.c > newfile.c  
    tr -d '\015' < newfile.c > routing.c  
    rm newfile.c
```

```
nocrmake:
```

```
    tr -d '\015' < makefile > newfile.c  
    tr -d '\015' < newfile.c > makefile  
    rm newfile.c
```

```
clean:
```

```
    rm *-par *-seq
```

```
cleanseq:
```

```
    rm *-seq
```

```
cleanpar:
```

```
rm *-par
```

```
compile: routing-par routing-seq
```

```
routing-par:
```

```
gcc $(CFLAGS) routing.c -o routing-par -lROSSpar -lpthread -lm
```

```
routing-seq:
```

```
gcc $(CFLAGS) routing.c -o routing-seq -lROSSseq -lpthread -lm
```

```
run: run-seq run-par
```

```
runquiet: run-seqq run-parq
```

```
run-seqq:
```

```
./routing-seq < numpe.txt > out.txt &
```

```
run-parq:
```

```
./routing-par < numpe4.txt > out.txt &
```

```
#           N   PEs SimTime PS  Absorb? KPs
```

```
run-seq:
```

```
./routing-seq 16 1 10000 50 1 8
```

```
run-par:
```

```
./routing-par 16 4 10000 50 1 8
```

```
run-seq2:
```

```
./routing-seq > out-seq.txt  
more out-seq.txt
```

```
run2:
```

```
./routing-par < numpe2.txt > out-par.txt  
more out-par.txt
```

```
#N           =      8, 16, 24, 32, 40, 48, 56, 64, 72, 80, 88, 96,
```

```
#           =     104, 112, 120, 128
```

```
#PE          =      1 (sequential), 4 (parallel)
```

```
#Simulation Time =     100,000
```

```
#Part Sources   =          1, N
```

```
#Absorb Sleeping Packet =     1, 0
```

```
run_tests_test:
```

```
# Parallel
```

```
#           N   PEs SimTime PS  Absorb?
```

```
./routing-par 8   4   100000 8   1 > out-par1.txt &
```

```
./routing-par 16  4   100000 16  1 >> out-par1.txt &
```

```
./routing-par 24  4   100000 24  1 >> out-par1.txt &
```

```

./routing-par 32 4 100000 32 1 >> out-par1.txt &
grep "Network size (N)" out-par1.txt > out-absorb-par.txt &
grep "Do routers absorb sleeping packets?" out-par1.txt >> out-absorb-par.txt &
grep "Mean delivery time in time steps" out-par1.txt >> out-absorb-par.txt &
grep "Mean distance traversed" out-par1.txt >> out-absorb-par.txt &
grep "Average wait to inject a packet" out-par1.txt >> out-absorb-par.txt &
grep "Worst Case wait to inject a packet" out-par1.txt >> out-absorb-par.txt &
grep "Number of packets injected" out-par1.txt >> out-absorb-par.txt &

```

```
run_testsaaa:
```

```

#####
#
#                               proof TESTS
#
#####
# Parallel

```

```

#
#           N    PEs SimTime %Sources Absorb? KPs
./routing-par 8    4 12800000 25      1      8    >  out-par1.txt
./routing-par 16   4  6400000 25      1      8    >> out-par1.txt
./routing-par 24   4  3200000 25      1      8    >> out-par1.txt
./routing-par 32   4  1600000 25      1      8    >> out-par1.txt
./routing-par 40   4  1600000 25      1      8    >> out-par1.txt
./routing-par 48   4   800000 25      1      8    >> out-par1.txt
./routing-par 56   4   800000 25      1      8    >> out-par1.txt
./routing-par 64   4  400000 25      1      8    >> out-par1.txt
./routing-par 72   4  400000 25      1      8    >> out-par1.txt
./routing-par 80   4  400000 25      1      8    >> out-par1.txt
./routing-par 88   4  200000 25      1      8    >> out-par1.txt
./routing-par 96   4  200000 25      1      8    >> out-par1.txt
./routing-par 104  4  200000 25      1      8    >> out-par1.txt
./routing-par 112  4  200000 25      1      8    >> out-par1.txt
./routing-par 120  4  200000 25      1      8    >> out-par1.txt
./routing-par 128  4  100000 25      1      8    >> out-par1.txt
./routing-par 136  4  100000 25      1      8    >> out-par1.txt
./routing-par 144  4  100000 25      1      8    >> out-par1.txt
./routing-par 152  4  100000 25      1      8    >> out-par1.txt
./routing-par 160  4  100000 25      1      8    >> out-par1.txt
./routing-par 168  4   50000 25      1      8    >> out-par1.txt
./routing-par 176  4   50000 25      1      8    >> out-par1.txt
./routing-par 184  4   50000 25      1      8    >> out-par1.txt
./routing-par 192  4   25000 25      1      8    >> out-par1.txt
./routing-par 200  4   25000 25      1      8    >> out-par1.txt
./routing-par 208  4   25000 25      1      8    >> out-par1.txt
./routing-par 216  4   25000 25      1      8    >> out-par1.txt
./routing-par 224  4   25000 25      1      8    >> out-par1.txt
./routing-par 232  4   25000 25      1      8    >> out-par1.txt
./routing-par 240  4   25000 25      1      8    >> out-par1.txt
./routing-par 248  4   25000 25      1      8    >> out-par1.txt
./routing-par 256  4   25000 25      1      8    >> out-par1.txt

```

```
me4:
```

```
make run_tests_4 > out-make4.txt &
```

```
me5:
    make run_tests_5 >> out-make4.txt &
```

```
run_tests_4:
```

#		N	PEs	SimTime	%Sources	Absorb?	KPs	
	./routing-par	8	4	12800000	50	1	8	> out-par1.txt
	./routing-seq	16	1	3200000	50	1	8	>> out-par1.txt
	./routing-par	24	4	3200000	50	1	8	>> out-par1.txt
	./routing-par	32	4	1600000	50	1	8	>> out-par1.txt
	./routing-par	40	4	1600000	50	1	8	>> out-par1.txt
	./routing-par	48	4	800000	50	1	8	>> out-par1.txt
	./routing-par	56	4	800000	50	1	8	>> out-par1.txt
	./routing-par	64	4	400000	50	1	8	>> out-par1.txt
	./routing-par	72	4	400000	50	1	8	>> out-par1.txt
	./routing-par	80	4	400000	50	1	8	>> out-par1.txt
	./routing-par	88	4	200000	50	1	8	>> out-par1.txt
	./routing-par	96	4	200000	50	1	8	>> out-par1.txt
	./routing-par	104	4	200000	50	1	8	>> out-par1.txt
	./routing-par	112	4	200000	50	1	8	>> out-par1.txt
	./routing-par	120	4	200000	50	1	8	>> out-par1.txt
	./routing-par	128	4	100000	50	1	8	>> out-par1.txt
	./routing-par	136	4	100000	50	1	8	>> out-par1.txt
	./routing-par	144	4	100000	50	1	8	>> out-par1.txt
	./routing-par	152	4	100000	50	1	8	>> out-par1.txt
	./routing-par	160	4	100000	50	1	8	>> out-par1.txt
	./routing-par	168	4	50000	50	1	8	>> out-par1.txt
	./routing-par	176	4	50000	50	1	8	>> out-par1.txt
	./routing-par	184	4	50000	50	1	8	>> out-par1.txt
	./routing-par	192	4	25000	50	1	8	>> out-par1.txt
	./routing-par	200	4	25000	50	1	8	>> out-par1.txt
	./routing-par	208	4	25000	50	1	8	>> out-par1.txt
	./routing-par	216	4	25000	50	1	8	>> out-par1.txt
	./routing-par	224	4	25000	50	1	8	>> out-par1.txt
	./routing-par	232	4	25000	50	1	8	>> out-par1.txt
	./routing-par	240	4	25000	50	1	8	>> out-par1.txt
	./routing-par	248	4	25000	50	1	8	>> out-par1.txt
	./routing-par	256	4	25000	50	1	8	>> out-par1.txt

#		N	PEs	SimTime	%Sources	Absorb?	KPs	
	./routing-par	8	4	12800000	75	1	8	>> out-par1.txt
	./routing-seq	16	1	3200000	75	1	8	>> out-par1.txt
	./routing-par	24	2	3200000	75	1	8	>> out-par1.txt
	./routing-par	32	2	1600000	75	1	8	>> out-par1.txt
	./routing-par	40	2	1600000	75	1	8	>> out-par1.txt
	./routing-par	48	2	800000	75	1	8	>> out-par1.txt
	./routing-par	56	2	800000	75	1	8	>> out-par1.txt
	./routing-par	64	2	400000	75	1	8	>> out-par1.txt
	./routing-par	72	2	400000	75	1	8	>> out-par1.txt
	./routing-par	80	2	400000	75	1	8	>> out-par1.txt
	./routing-par	88	2	200000	75	1	8	>> out-par1.txt
	./routing-par	96	2	200000	75	1	8	>> out-par1.txt
	./routing-par	104	2	200000	75	1	8	>> out-par1.txt
	./routing-par	112	2	200000	75	1	8	>> out-par1.txt

```

./routing-par 120 4 200000 75 1 8 >> out-par1.txt
./routing-par 128 4 100000 75 1 8 >> out-par1.txt
./routing-par 136 4 100000 75 1 8 >> out-par1.txt
./routing-par 144 4 100000 75 1 8 >> out-par1.txt
./routing-par 152 4 100000 75 1 8 >> out-par1.txt
./routing-par 160 4 100000 75 1 8 >> out-par1.txt
./routing-par 168 4 50000 75 1 8 >> out-par1.txt
./routing-par 176 4 50000 75 1 8 >> out-par1.txt
./routing-par 184 4 50000 75 1 8 >> out-par1.txt
./routing-par 192 4 25000 75 1 8 >> out-par1.txt
./routing-par 200 4 25000 75 1 8 >> out-par1.txt
./routing-par 208 4 25000 75 1 8 >> out-par1.txt
./routing-par 216 4 25000 75 1 8 >> out-par1.txt
./routing-par 224 4 25000 75 1 8 >> out-par1.txt
./routing-par 232 4 25000 75 1 8 >> out-par1.txt
./routing-par 240 4 25000 75 1 8 >> out-par1.txt
./routing-par 248 4 25000 75 1 8 >> out-par1.txt
./routing-par 256 4 25000 75 1 8 >> out-par1.txt
grep "Network size (N)" out-par1.txt >> out-absorb-par.txt
grep "Do routers absorb sleeping packets?" out-par1.txt >> out-absorb-par.txt
grep "Mean delivery time in time steps" out-par1.txt >> out-absorb-par.txt
grep "Mean distance traversed" out-par1.txt >> out-absorb-par.txt
grep "Average wait to inject a packet" out-par1.txt >> out-absorb-par.txt
grep "Worst Case wait to inject a packet" out-par1.txt >> out-absorb-par.txt
grep "Number of packets injected" out-par1.txt >> out-absorb-par.txt

grep "Event Rate" out-par1.txt >> out-absorb-par.txt
grep "Total Execution Time" out-par1.txt >> out-absorb-par.txt
grep "Remote Events Sent" out-par1.txt >> out-absorb-par.txt
grep "Net Events Processed" out-par1.txt >> out-absorb-par.txt
grep "Events Rolled Back" out-par1.txt >> out-absorb-par.txt
grep "Total Events Processed" out-par1.txt >> out-absorb-par.txt

```

#run_tests:

```

#           N    PEs SimTime %Sources Absorb? KPs
./routing-par 8    4 12800000 100      1      8    >> out-par1.txt
./routing-par 16   4 6400000 100      1      8    >> out-par1.txt
./routing-par 24   4 3200000 100      1      8    >> out-par1.txt
./routing-par 32   4 1600000 100      1      8    >> out-par1.txt
./routing-par 40   4 1600000 100      1      8    >> out-par1.txt
./routing-par 48   4 800000 100      1      8    >> out-par1.txt
./routing-par 56   4 800000 100      1      8    >> out-par1.txt
./routing-par 64   4 400000 100      1      8    >> out-par1.txt
./routing-par 72   4 400000 100      1      8    >> out-par1.txt
./routing-par 80   4 400000 100      1      8    >> out-par1.txt
./routing-par 88   4 200000 100      1      8    >> out-par1.txt
./routing-par 96   4 200000 100      1      8    >> out-par1.txt
./routing-par 104  4 200000 100      1      8    >> out-par1.txt
./routing-par 112  4 200000 100      1      8    >> out-par1.txt
./routing-par 120  4 100000 100      1      8    >> out-par1.txt
./routing-par 128  4 100000 100      1      8    >> out-par1.txt
./routing-par 136  4 100000 100      1      8    >> out-par1.txt
./routing-par 144  4 100000 100      1      8    >> out-par1.txt

```

```

./routing-par 152 4 100000 100 1 8 >> out-par1.txt
./routing-par 160 4 100000 100 1 8 >> out-par1.txt
./routing-par 168 4 50000 100 1 8 >> out-par1.txt
./routing-par 176 4 50000 100 1 8 >> out-par1.txt
./routing-par 184 4 50000 100 1 8 >> out-par1.txt
./routing-par 192 4 25000 100 1 8 >> out-par1.txt
./routing-par 200 4 25000 100 1 8 >> out-par1.txt
./routing-par 208 4 25000 100 1 8 >> out-par1.txt
./routing-par 216 4 25000 100 1 8 >> out-par1.txt
./routing-par 224 4 25000 100 1 8 >> out-par1.txt
./routing-par 232 4 25000 100 1 8 >> out-par1.txt
./routing-par 240 4 25000 100 1 8 >> out-par1.txt
./routing-par 248 4 25000 100 1 8 >> out-par1.txt
./routing-par 256 4 25000 100 1 8 >> out-par1.txt
grep "Network size (N)" out-par1.txt >> out-absorb-par.txt
grep "Do routers absorb sleeping packets?" out-par1.txt >> out-absorb-par.txt
grep "Mean delivery time in time steps" out-par1.txt >> out-absorb-par.txt
grep "Mean distance traversed" out-par1.txt >> out-absorb-par.txt
grep "Average wait to inject a packet" out-par1.txt >> out-absorb-par.txt
grep "Worst Case wait to inject a packet" out-par1.txt >> out-absorb-par.txt
grep "Number of packets injected" out-par1.txt >> out-absorb-par.txt

grep "Event Rate" out-par1.txt >> out-absorb-par.txt
grep "Total Execution Time" out-par1.txt >> out-absorb-par.txt
grep "Remote Events Sent" out-par1.txt >> out-absorb-par.txt
grep "Net Events Processed" out-par1.txt >> out-absorb-par.txt
grep "Events Rolled Back" out-par1.txt >> out-absorb-par.txt
grep "Total Events Processed" out-par1.txt >> out-absorb-par.txt

```

mekp:

```
make run_tests_2 > out-make_kp.txt &
```

```

#####
#
#           KP      TESTS
#
#####
run_tests_2:
#
#           N      PEs SimTime %Sources Absorb? KPs
./routing-par 16 4 100000 100 1 2 > out-par2.txt
./routing-par 32 4 1000000 100 1 2 >> out-par2.txt
./routing-par 64 4 250000 100 1 2 >> out-par2.txt
./routing-par 128 4 60000 100 1 2 >> out-par2.txt
./routing-par 256 4 15000 100 1 2 >> out-par2.txt
grep "Network size (N)" out-par2.txt > out_kp_test_stats.txt
grep "Do routers absorb sleeping packets?" out-par2.txt >> out_kp_test_stats.txt
grep "Mean delivery time in time steps" out-par2.txt >> out_kp_test_stats.txt
grep "Mean distance traversed" out-par2.txt >> out_kp_test_stats.txt
grep "Average wait to inject a packet" out-par2.txt >> out_kp_test_stats.txt
grep "Worst Case wait to inject a packet" out-par2.txt >> out_kp_test_stats.txt
grep "Number of packets injected" out-par2.txt >> out_kp_test_stats.txt

grep "Event Rate" out-par2.txt >> out_kp_test_stats.txt
grep "Total Execution Time" out-par2.txt >> out_kp_test_stats.txt
grep "Remote Events Sent" out-par2.txt >> out_kp_test_stats.txt

```

```
grep "Net Events Processed" out-par2.txt >> out_kp_test_stats.txt
grep "Events Rolled Back" out-par2.txt >> out_kp_test_stats.txt
grep "Total Events Processed" out-par2.txt >> out_kp_test_stats.txt
```

me2b:

```
make run_tests_2b > out-make2b.txt &
```

```
#####
#
#           PE      TESTS
#
#####
run_tests_2b:
#
      N   PEs SimTime %Sources Absorb? KPs
./routing-seq 16 1 800000 100 1 8 > out-seq3.txt
./routing-seq 32 1 200000 100 1 8 >> out-seq3.txt
./routing-seq 64 1 50000 100 1 8 >> out-seq3.txt
./routing-seq 128 1 12000 100 1 8 >> out-seq3.txt
./routing-seq 256 1 3000 100 1 8 >> out-seq3.txt
./routing-par 16 2 800000 100 1 8 >> out-seq3.txt
./routing-par 32 2 200000 100 1 8 >> out-seq3.txt
./routing-par 64 2 50000 100 1 8 >> out-seq3.txt
./routing-par 128 2 12000 100 1 8 >> out-seq3.txt
./routing-par 256 2 3000 100 1 8 >> out-seq3.txt
./routing-par 16 4 800000 100 1 8 >> out-seq3.txt
./routing-par 32 4 200000 100 1 8 >> out-seq3.txt
./routing-par 64 4 50000 100 1 8 >> out-seq3.txt
./routing-par 128 4 12000 100 1 8 >> out-seq3.txt
./routing-par 256 4 3000 100 1 8 >> out-seq3.txt
grep "Network size (N)" out-seq3.txt > out_pe_test_stats.txt
grep "Do routers absorb sleeping packets?" out-seq3.txt >> out_pe_test_stats.txt
grep "Mean delivery time in time steps" out-seq3.txt >> out_pe_test_stats.txt
grep "Mean distance traversed" out-seq3.txt >> out_pe_test_stats.txt
grep "Average wait to inject a packet" out-seq3.txt >> out_pe_test_stats.txt
grep "Worst Case wait to inject a packet" out-seq3.txt >> out_pe_test_stats.txt
grep "Number of packets injected" out-seq3.txt >> out_pe_test_stats.txt

grep "Event Rate" out-seq3.txt >> out_pe_test_stats.txt
grep "Total Execution Time" out-seq3.txt >> out_pe_test_stats.txt
grep "Remote Events Sent" out-seq3.txt >> out_pe_test_stats.txt
grep "Net Events Processed" out-seq3.txt >> out_pe_test_stats.txt
grep "Events Rolled Back" out-seq3.txt >> out_pe_test_stats.txt
grep "Total Events Processed" out-seq3.txt >> out_pe_test_stats.txt
```

```
#####
#
#           extra TESTS
#
#####
```

extra:

Sequential

```
#           N    PEs SimTime PS  Absorb?
./routing-seq 8    1   100000 8    1 > out-seq1.txt
./routing-seq 16   1   100000 16   1 >> out-seq1.txt
./routing-seq 24   1   100000 24   1 >> out-seq1.txt
./routing-seq 32   1   100000 32   1 >> out-seq1.txt
./routing-seq 40   1   100000 40   1 >> out-seq1.txt
./routing-seq 48   1   100000 48   1 >> out-seq1.txt
./routing-seq 56   1   100000 56   1 >> out-seq1.txt
./routing-seq 64   1   100000 64   1 >> out-seq1.txt
./routing-seq 72   1   100000 72   1 >> out-seq1.txt
./routing-seq 80   1   100000 80   1 >> out-seq1.txt
./routing-seq 88   1   100000 88   1 >> out-seq1.txt
./routing-seq 96   1   100000 96   1 >> out-seq1.txt
./routing-seq 104  1   100000 104  1 >> out-seq1.txt
./routing-seq 112  1   100000 112  1 >> out-seq1.txt
./routing-seq 120  1   100000 120  1 >> out-seq1.txt
./routing-seq 128  1   100000 128  1 >> out-seq1.txt
grep "Network size (N)" out-seq1.txt > out-absorb-seq.txt
grep "Do routers absorb sleeping packets?" out-seq1.txt >> out-absorb-seq.txt
grep "Mean delivery time in time steps" out-seq1.txt >> out-absorb-seq.txt
grep "Mean distance traversed" out-seq1.txt >> out-absorb-seq.txt
grep "Average wait to inject a packet" out-seq1.txt >> out-absorb-seq.txt
grep "Worst Case wait to inject a packet" out-seq1.txt >> out-absorb-seq.txt
grep "Number of packets injected" out-seq1.txt >> out-absorb-seq.txt

grep "Events Rate" out-seq1.txt >> out-absorb-seq.txt
grep "Total Execution Time" out-seq1.txt >> out-absorb-seq.txt
grep "Net Events Processed" out-seq1.txt >> out-absorb-seq.txt
grep "Events Rolled Back" out-seq1.txt >> out-absorb-seq.txt
grep "Total Events Processed" out-seq1.txt >> out-absorb-seq.txt
```

```
#           N    PEs SimTime PS  Absorb?
./routing-par 8    4   100000 8    0 > out-par0.txt
./routing-par 16   4   100000 16   0 >> out-par0.txt
./routing-par 24   4   100000 24   0 >> out-par0.txt
./routing-par 32   4   100000 32   0 >> out-par0.txt
./routing-par 40   4   100000 40   0 >> out-par0.txt
./routing-par 48   4   100000 48   0 >> out-par0.txt
./routing-par 56   4   100000 56   0 >> out-par0.txt
./routing-par 64   4   100000 64   0 >> out-par0.txt
./routing-par 72   4   100000 72   0 >> out-par0.txt
./routing-par 80   4   100000 80   0 >> out-par0.txt
./routing-par 88   4   100000 88   0 >> out-par0.txt
./routing-par 96   4   100000 96   0 >> out-par0.txt
./routing-par 104  4   100000 104  0 >> out-par0.txt
./routing-par 112  4   100000 112  0 >> out-par0.txt
./routing-par 120  4   100000 120  0 >> out-par0.txt
./routing-par 128  4   100000 128  0 >> out-par0.txt
grep "Network size (N)" out-par0.txt > out-noabsorb-par.txt
grep "Do routers absorb sleeping packets?" out-par0.txt >> out-noabsorb-par.txt
grep "Mean delivery time in time steps" out-par0.txt >> out-noabsorb-par.txt
grep "Mean distance traversed" out-par0.txt >> out-noabsorb-par.txt
grep "Average wait to inject a packet" out-par0.txt >> out-noabsorb-par.txt
grep "Worst Case wait to inject a packet" out-par0.txt >> out-noabsorb-par.txt
grep "Number of packets injected" out-par0.txt >> out-noabsorb-par.txt
```



```
grep "Event Rate" out-par0.txt >> out-noabsorb-par.txt
grep "Total Execution Time" out-par0.txt >> out-noabsorb-par.txt
grep "Remote Events Sent" out-par0.txt >> out-noabsorb-par.txt
grep "Net Events Processed" out-par0.txt >> out-noabsorb-par.txt
grep "Events Rolled Back" out-par0.txt >> out-noabsorb-par.txt
grep "Total Events Processed" out-par0.txt >> out-noabsorb-par.txt
```

```
#
      N   PEs SimTime PS Absorb?
./routing-seq 8   1   100000 8 0 > out-seq0.txt
./routing-seq 16  1   100000 16 0 >> out-seq0.txt
./routing-seq 24  1   100000 24 0 >> out-seq0.txt
./routing-seq 32  1   100000 32 0 >> out-seq0.txt
./routing-seq 40  1   100000 40 0 >> out-seq0.txt
./routing-seq 48  1   100000 48 0 >> out-seq0.txt
./routing-seq 56  1   100000 56 0 >> out-seq0.txt
./routing-seq 64  1   100000 64 0 >> out-seq0.txt
./routing-seq 72  1   100000 72 0 >> out-seq0.txt
./routing-seq 80  1   100000 80 0 >> out-seq0.txt
./routing-seq 88  1   100000 88 0 >> out-seq0.txt
./routing-seq 96  1   100000 96 0 >> out-seq0.txt
./routing-seq 104 1   100000 104 0 >> out-seq0.txt
./routing-seq 112 1   100000 112 0 >> out-seq0.txt
./routing-seq 120 1   100000 120 0 >> out-seq0.txt
./routing-seq 128 1   100000 128 0 >> out-seq0.txt
grep "Network size (N)" out-seq0.txt > out-noabsorb-seq.txt
grep "Do routers absorb sleeping packets?" out-seq0.txt >> out-noabsorb-seq.txt
grep "Mean delivery time in time steps" out-seq0.txt >> out-noabsorb-seq.txt
grep "Mean distance traversed" out-seq0.txt >> out-noabsorb-seq.txt
grep "Average wait to inject a packet" out-seq0.txt >> out-noabsorb-seq.txt
grep "Worst Case wait to inject a packet" out-seq0.txt >> out-noabsorb-seq.txt
grep "Number of packets injected" out-seq0.txt >> out-noabsorb-seq.txt

grep "Events Rate" out-seq0.txt >> out-noabsorb-seq.txt
grep "Total Execution Time" out-seq0.txt >> out-noabsorb-seq.txt
grep "Net Events Processed" out-seq0.txt >> out-noabsorb-seq.txt
grep "Events Rolled Back" out-seq0.txt >> out-noabsorb-seq.txt
grep "Total Events Processed" out-seq0.txt >> out-noabsorb-seq.txt
```

grep1:

```
grep "Network size (N)" out-par1.txt >> out-absorb-par.txt
grep "Do routers absorb sleeping packets?" out-par1.txt >> out-absorb-par.txt
grep "Mean delivery time in time steps" out-par1.txt >> out-absorb-par.txt
grep "Mean distance traversed" out-par1.txt >> out-absorb-par.txt
grep "Average wait to inject a packet" out-par1.txt >> out-absorb-par.txt
grep "Worst Case wait to inject a packet" out-par1.txt >> out-absorb-par.txt
grep "Number of packets injected" out-par1.txt >> out-absorb-par.txt

grep "Event Rate" out-par1.txt >> out-absorb-par.txt
grep "Total Execution Time" out-par1.txt >> out-absorb-par.txt
grep "Remote Events Sent" out-par1.txt >> out-absorb-par.txt
grep "Net Events Processed" out-par1.txt >> out-absorb-par.txt
grep "Events Rolled Back" out-par1.txt >> out-absorb-par.txt
grep "Total Events Processed" out-par1.txt >> out-absorb-par.txt
```