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CS342 Operating Systems Lab Assignment 12
filename : Report.pdf

Note : See **README.txt** first for compilation, execution instructions

Q1) Example:

Input:

Number of cylinders: 200

Head position: 100

Size of Disk request queue: 5

Disk request queue: 23 89 132 42 187

Initial direction for SCAN (0-left, 1-right): 0

Initial direction for C-SCAN (0-left, 1-right): 0

Output:

Disk Scheduling Algorithm: FCFS

Total head movement: 421

Seek time: 2105ms

Graph: Displayed in gnu plot

Order of Processed Requests: 23 89 132 42 187

Disk Scheduling Algorithm: SCAN

Total head movement: 287

Seek time: 1435ms

Graph: Displayed in gnu plot

Order of Processed Requests: 89 42 23 132 187

Disk Scheduling Algorithm: C-SCAN

Total head movement: 366

Seek time: 1830ms

Graph: Displayed in gnu plot

Order of Processed Requests: 89 42 23 187 132

Disk Scheduling Algorithm: SSTF

Total head movement: 273

Seek time: 1365ms

Graph: Displayed in gnu plot

Order of Processed Requests: 89 132 187 42 23

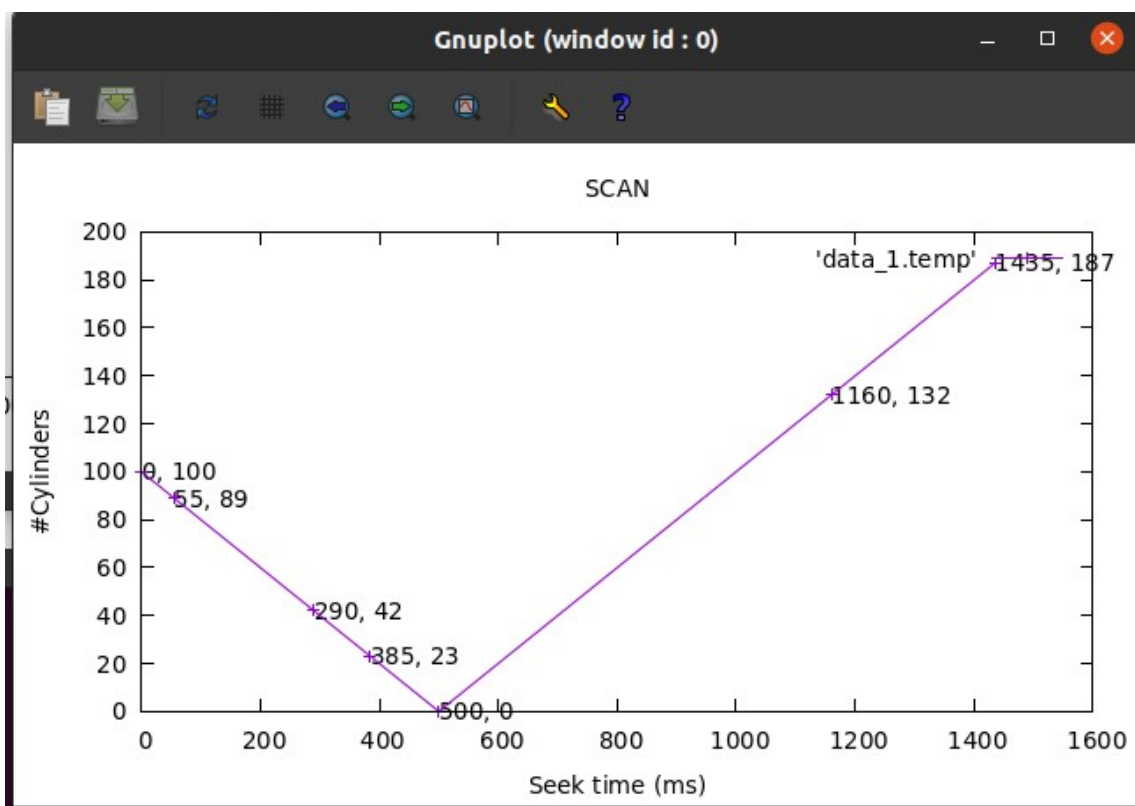
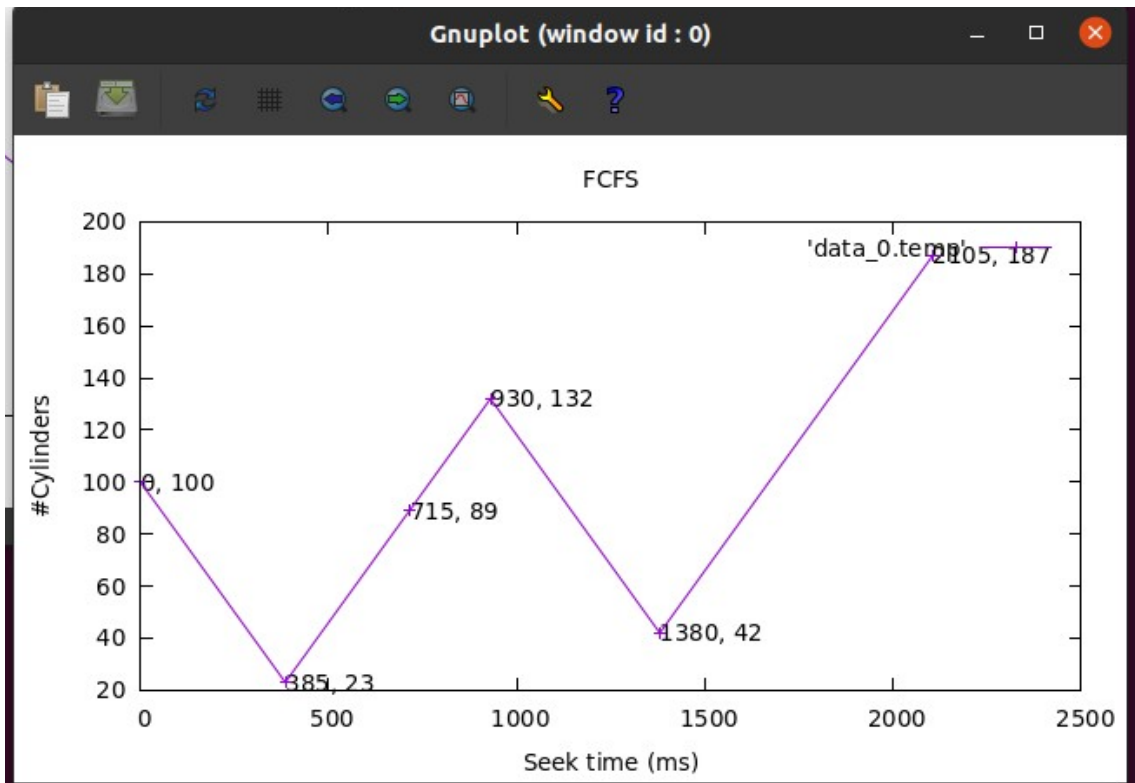
Sorted Order of Algorithms from worst to best on the basis of seek time:

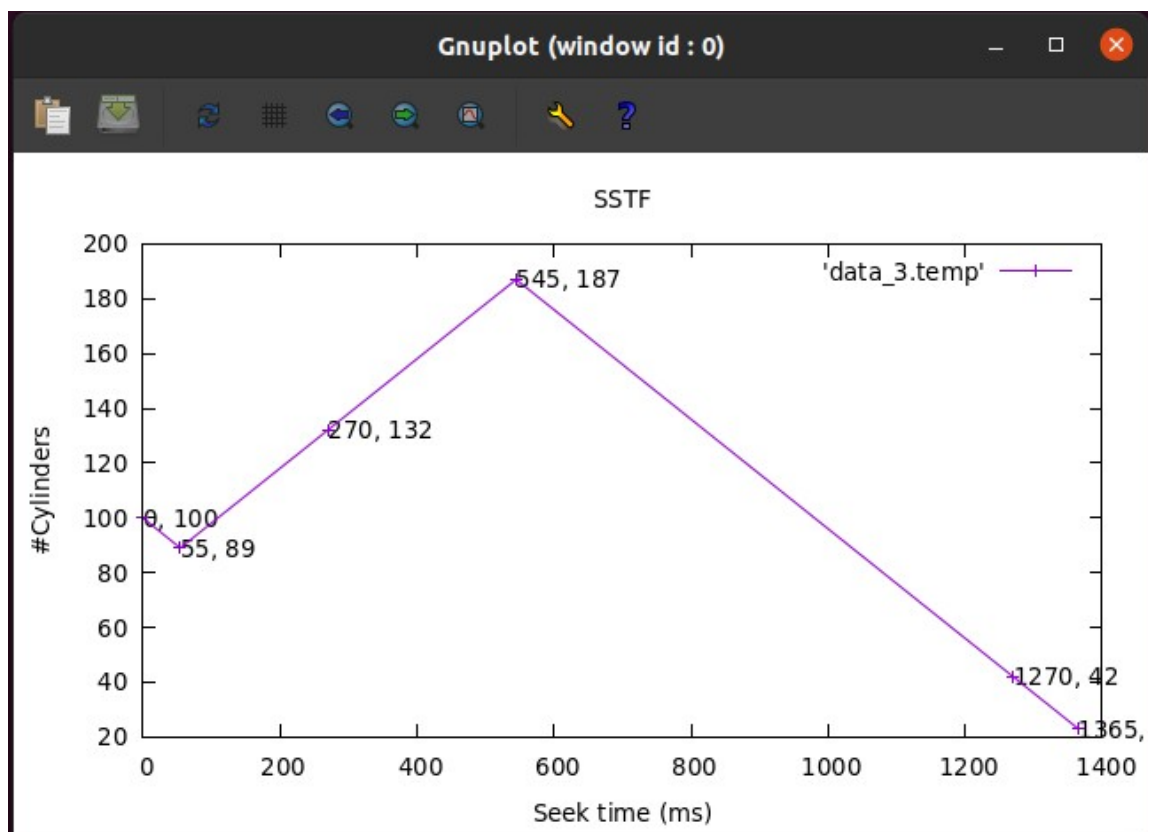
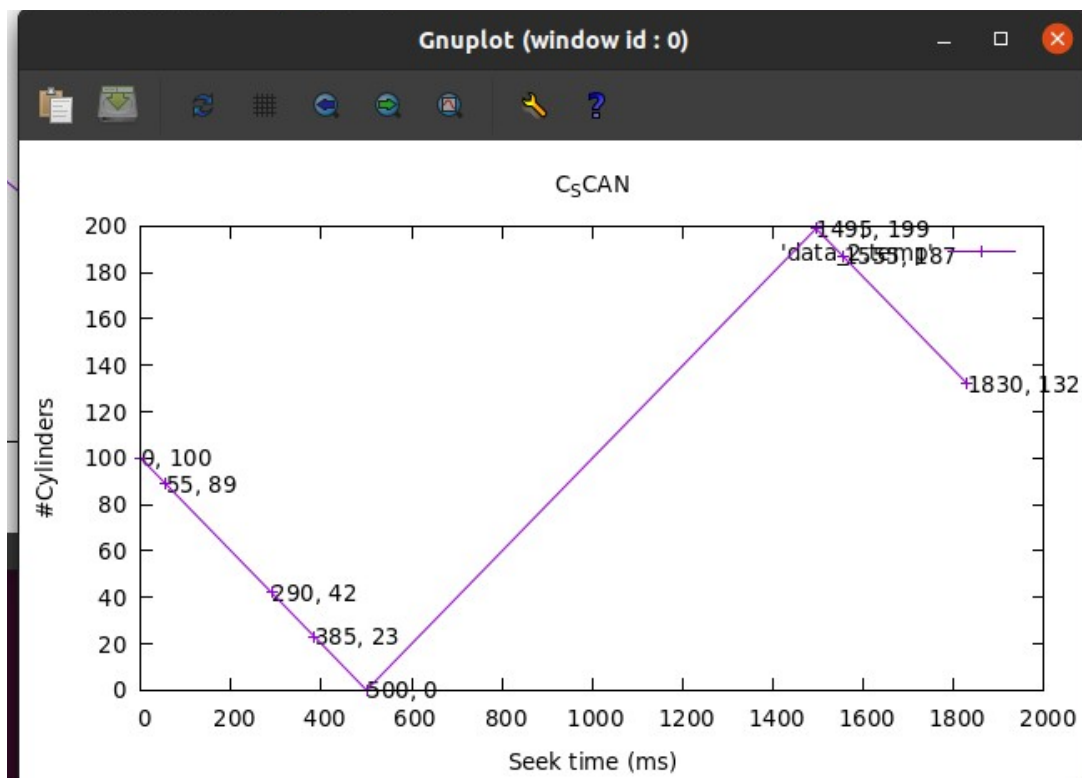
FCFS - 2105ms

C-SCAN - 1830ms

SCAN - 1435ms

SSTF - 1365ms





Q2) Example:

Input:

Number of cylinders: 200

Head position: 100

Size of Disk request queue: 8

Disk request queue: 98 183 37 122 14 124 65 67

Output:

Disk Scheduling Algorithm: S-LOOK

Total head movement: 252

Seek time: 1260ms

Graph: Displayed in gnu plot

Order of Processed Requests: 122 124 183 98 67 65 37 14

