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CSEN 383 Assignment #5, Group 3

Disk Scheduling Algorithms

Our report for this project represents the results of a disk scheduling simulation for a disk with 5000 cylinders (0-4999). For each algorithm, we provide below the order of cylinders visited and the total distance (in cylinders) the disk arm travels.

Simulation Results

* Initial Head Position: 2255
* Previous Request: 1723

FCFS

* Order:
  + 2055
  + 1175
  + 2304
  + 2700
  + 513
  + 1680
  + 256
  + 1401
  + 4922
  + 3692
* Total Distance: 13279 cylinders

SSTF

* Order:
  + 2034
  + 2055
  + 1680
  + 1401
  + 1175
  + 513
  + 256
  + 2700
  + 3632
  + 4922
* Total Distance: 6763 cylinders

SCAN

* Order:
  + 2304
  + 2700
  + 3692
  + 4922
  + 2055
  + 1680
  + 1401
  + 1175
  + 513
  + 256
* Total Distance: 7487 cylinders

LOOK

* Order:
  + 2304
  + 2700
  + 3692
  + 4922
  + 2055
  + 1680
  + 1401
  + 1175
  + 513
  + 256
* Total Distance: 7333 cylinders

C-SCAN

* Order:
  + 2304
  + 2700
  + 3692
  + 4922
  + 256
  + 513
  + 1175
  + 1401
  + 1680
  + 2055
* Total Distance: 9798 cylinders

C-LOOK

* Order:
  + 2304
  + 2700
  + 3692
  + 4922
  + 256
  + 513
  + 1175
  + 1401
  + 1680
  + 2055
* Total Distance: 9132 cylinders