

Government Engineering College, Thrissur
CS331 – System Software Lab
Documentation -
Exp 5 – Disk Scheduling

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Experiment 5

Simulate the following disk scheduling algorithms

- a) FCFS b) SCAN c) C-SCAN

Compilation of Code

Prerequisite

- The code is provided in the **program.c** along with this documentation. You can open the terminal in Linux (Ubuntu 18.04 tested). Then run the command
gcc program.c
./a.out
- We can execute the code in console and see the output as soon as we press enter key. There **one** input file **req.txt**. **Each requests should be provided in line by line**. Please note that last line must NOT be empty.
- Output of the code will be printed on the **console**
- Note: Please see the my_machine_output.txt file for the output I got on my machine.**

Output / Screenshots

req.txt

```
Exp5 > Upload > ≡ req.txt
1    98
2    183
3    41
4    122
5    14
6    124
7    65
8    67
```

Menu

```
-----Menu-----
1. FCFS
2. SCAN
3. C-SCAN
4. Exit
Select:1
```

1. FCFS

```
-----Menu-----
1. FCFS
2. SCAN
3. C-SCAN
4. Exit
Select:1

-----FCFS disk Scheduling-----
Enter current header position: 53
Total Head movements: 632
```

2. SCAN

```
-----Menu-----
1. FCFS
2. SCAN
3. C-SCAN
4. Exit
Select:2

-----SCAN disk Scheduling-----
Enter current header position: 53
Total Head movements: 331
```

3. C-SCAN

```
-----Menu-----
1. FCFS
2. SCAN
3. C-SCAN
4. Exit
Select:3

-----C-SCAN disk Scheduling-----
Enter current header position: 53
Total Head movements: 386
```

4. Exit

```
-----Menu-----
1. FCFS
2. SCAN
3. C-SCAN
4. Exit
Select:4
```