

Exercise – Deadline driven disk scheduling

Reference string: 98, 183, 37, 122, 14, 124, 65, 67

Total Cylinders: 0 – 199

Initial Head Position : 53 and moving towards MAX

Inter-cylinder movement duration: 1 time unit, Read time: 5 time units

Deadline driven request @ 183 (140) (Additional information)

- Operation: C-SCAN till any deadline is threatened

Exercise – Anticipatory Scheduling

- After servicing a request ... WAIT.
- If a nearby request occurs soon, service it.
- If not ... elevator (C-SCAN/C-LOOK).

Reference string: 98, 183, 37, 122, 14, 124, 65, 67

Total Cylinders: 0 – 199

Initial Head Position : 53

Locality range: 30 (optional) (important design parameter) OR

Wait period of 10 time units

Exercise – Completely Fair Queuing (CFQ)

- This is the default algorithm in most Linux distributions.

Reference string: 98, 183, 37(RT), 122(RT), 14, 124, 65, 67

Arrival time (t): 0, 4, 9, 12, 15, 18, 20, 21

Filter @ 10 time units

Total Cylinders: 0 – 199

Initial Head Position : 53 and moving towards MAX

Inter-cylinder movement duration: 1 time unit, Read time: 5 time units