Operating System and System Administration



Tutorial 09

Year 02 Semester 01 2021

Department of Information Technology, Faculty of Computing

- 1. Disk requests come in the disk driver (0 to 999 cylinders) for cylinders 400, 200, 100, 500, 800, and 300, in that order. A seek takes 10 msec per cylinder moved. Assuming the arm is initially at cylinder 600, and moving toward larger cylinder number for a disk with 1000 cylinders, how much seek time is needed for: (6 marks)
 - i. SCAN algorithm.
 - ii. LOOK algorithm
- 2. Disk requests come in the disk driver for cylinders 10, 22, 2, 40, 6, and 38, in that order. A seek takes 6 msec per cylinder moved. Assuming the arm is initially at cylinder 20, and moving toward larger cylinder number for a disk with 64 cylinders, how much seek time is needed for:
 - i. LOOK algorithm.
 - ii. C-SCAN