C. Hard disks

| 1. 填空 | Suppose that a disk drive has 5000cylinders, numbered 0 to 4999. The atcylinder 143, and the previous request was at cylinder 125. The que 86, 1470, 913, 1774, 948,1509, 1022, 1750, 130 Starting from the current head position, what is the total distance (in comparison that the pending requests, for each of the following disk-scheduling algority a. FCFS: The total seek distance is b. SSTF: The total seek distance is c. SCAN: The total seek distance is d. LOOK: The total seek distance is e. C-SCAN: The total seek distance is f. C-LOOK: The total seek distance is | eue ofpending requests, in FIFO order, is ylinders) that the disk arm moves to satisfyall | |
|---|--|--|--|
| (1) | 7081 | | |
| (2) | 1745 | | |
| (3) | 1917 | 回答错误 | |
| (4) | 1745 | 回答错误 | |
| (5) | 9985 | | |
| (6) | 3363 | | |
| (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4 | E确答案: (1) 7081 (2) 1745 (3) 9769 (4) 3319 (5) 9985 (5) 3363 (7) The FCFS scheduleis 143, 86, 1470, 913, 1774, 948, 1509, 1022,1750, 130. The SSTF scheduleis 143, 130, 86, 913, 948, 1022, 1470, 1509, 1750,1774. The The SCAN scheduleis 143, 913, 948, 1022, 1470, 1509, 1750, 1774,4999, 130, 1716 LOOK scheduleis 143, 913, 948, 1022, 1470, 1509, 1750, 1774,130, 86. The C-SCAN scheduleis 143, 913, 948, 1022, 1470, 1509, 1750, 1774,4999, 86. The C-LOOK scheduleis 143, 913, 948, 1022, 1470, 1509, 1750, 1774,4999, 86. The C-LOOK scheduleis 143, 913, 948, 1022, 1470, 1509, 1750, 1774,4999, 86. | e total seek distanceis 1745. 86. The total seekdistance is 9769. ne total seek distanceis 3319. , 130. The total seekdistance is 9985. | |
| 2. Which of the following storage device does not belong to the tertiary storage structure? 单选题 (9 分) 9分 | | | |
| A. CD-ROM | | | |
| B. | DVD | | |

| D. Tapes |
|---|
| 正确答案: C |
| 3. Which provides high reliabilityinexpensively? |
| 单选题 (9 分) 9分 |
| A. RAID 0 |
| B. RAID 2 |
| C. RAID 4 |
| D. RAID 5 |
| 正确答案: D |
| 4. Which kind of swap space is fastest? |
| 单选题 (9 分) 9分 |
| A. A swap file on FAT |
| B. A swap file on ext3 |
| C. A partition with sophisticated file systemfunctions |
| D. A raw partition |
| 正确答案: D |
| 5. Linux treats I/O devices as |
| 单选题 (9 分) 9分 |
| A. regular files |
| B. directory files |
| C. indexed files |
| D. special files |
| 正确答案: D |
| 6 present a uniform device-accessinterface to the I/O subsystem, much as system calls provide a standardinterface between the application and the operating system. 单选题 (9 分) 9分 |
| A. Kernel |
| B. Device drivers |
| C. Bus |

D. Operating system

| 7. The I/O control of disk devices mainlyadopt following method. |
|---|
| 单选题 (9分) 9分 |
| A. polled |
| B. interrupt |
| C. channel |
| D. DMA |
| |
| 正确答案: D |
| |
| 8. Disk access time does not include |
| 単选题 (9 分) 9分 |
| A. seek time |
| B. rotational latency time |
| C. read/write time |
| D. CPU scheduling time |
| |
| 正确答案: D |
| |
| |
| 9 is used to cope with the speedmismatch between CPU and I/O devices. |
| 单选题 (9分) 9分 |
| A. buffering |
| B. parallel |
| C. caching |
| D. semaphore |
| |
| |
| 正确答案: A |
| 正确答案: A |
| |
| 正确答案: A 10. In the disk scheduling algorithm, which algorithm may change the arm's movement direction at any moment? 单选题 (9 分) 9分 |
| 10. In the disk scheduling algorithm, which algorithm may change the arm's movement direction at any moment? |
| 10. In the disk scheduling algorithm, which algorithm may change the arm's movement direction at any moment? 单选题 (9 分) 9分 |
| 10. In the disk scheduling algorithm, which algorithm may change the arm's movement direction at any moment? 单选题 (9 分) 9分 A. C-SCAN |