

1. What is Microkernel? What are the difference between Microkernel and traditional kernel(10)
2. What are the differences between the full-virtualization and para-virtualization? (10)
3. How can a system boot? Please write down the detail steps. (10)
4. How can a process be represented in Linux? (10)
5. In multithreading models, what are the differences between many-to-one, one-to-one, and many-to-many models? (10)
6. What is preemptive scheduling? What is non-preemptive scheduling? What are the differences between these two scheduling strategies(10)
7. In thread scheduling, what are the differences between the process-contention scope and system-contention scope? (10)
8. Please write down the detail steps in handling a page fault. (10)
9. Demand paging can significantly affect the performance of a computer system. Please propose four page replacement strategies? (10)
10. What are the differences between FAT and inode? (10)