

Operating Systems

HW#6, Storage Management

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Problem set A: Short questions

1. Define the seek time and latency time of hard disk.
2. What is head crash? What happens during head crash?
3. What is I/O Bus?
4. What is USB?
5. What are the SSD drives, how do they function? What are their advantages and disadvantages?
6. What is low level formatting?
7. What are the criteria for shorter or longer sector sizes?
8. What is boot program?
9. What is boot loader?
10. What are advantages/disadvantages of keeping boot program in ROM?
11. What are the system-calls related to files?
12. List 10 different file types.

Problem set B: Not too short answers

1. Draw a neat diagram of hard-disk and explain its working in details.
2. What is latency time of hard disks having speeds of 7200, and 10000 rpm.
3. What are the SSD drives, how the function? What are their advantages and disadvantages?
4. What is data structure of a sector of disk?
5. What is file system interface?
6. How the files are stored, and accessed in hard disk?
7. What are different file attributes?