

Operating Systems Design

Tutorial 01

Answer the following questions:

- Q1) What are the differences between Interactive and Real time systems?
- Q2) What is the difference between main memory and auxiliary memory?
- Q3) Explain each of the following:
- a) Multi-user operating system
 - b) Multiprocessing operating system
 - c) Multitasking operating system
 - d) Multithreading operating system
 - e) Distributed processing
- Q4) What is a thread?
- Q5) Describe micro computers and mini computers and outline the differences between them.
- Q6) Briefly describe batch processing and interactive processing operating systems and outline the contradicting characteristics.
- Q7) What is the kernel of an operating system? When is the kernel loaded into memory so that it can run?
- Q8) Describe the mechanism through which a user process transitions from user mode to kernel mode. What is this mechanism called?