

Tutorial 5

Process Management

Attempt the following questions before you attend tutorial.

1. What is a process?
2. In a multi-threaded process, threads share certain information in the same process whilst not sharing others. In your own words, briefly explain why this is so.
3. Given that the states of a process are :
 - Running : Currently using the CPU
 - Ready : Waiting for the CPU
 - Blocked for Interrupt : Waiting for an interrupt handler to finish, then resume running.
 - Blocked for reusable resource : Waiting for a reusable resource to be allocated, then will become ready.
 - Blocked for consumable resource : Waiting for a consumable resource to be allocated, then will become ready.

What is a possible state diagram for the process? Show the relationship in terms of the transitions between each of these states.

4. What data structure is used to store the information regarding each process in the OS? How are they organized?