

Write the different state of a process with the help of Process state diagram?

The process state diagram is a graphical representation of the different states a process can be in during its lifetime in an operating system.

Here are the different states of a process as represented in a process state diagram:

New: This is the initial state of a process. The process is being created but has not yet been admitted to the system.

Ready: A process that is ready to be executed is in the ready state. It is waiting in the ready queue for the CPU to be assigned to it.

Running: When the CPU is assigned to a process, it moves into the running state. The process is actively executing on the CPU.

Blocked: A process may move into the blocked state when it is waiting for some event to occur, such as an I/O operation or a signal from another process. The process is not currently executable and is waiting for the event to occur.

Terminated: When a process completes its execution, it moves into the terminated state. The resources allocated to the process are released, and the process is removed from the system.

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61. What is Process Scheduling, CPU Scheduling, Disk Scheduling? Explain Short, Medium and Long term Scheduler?
62. Explain concept of a process with its components ?
63. Explain the following in brief Contiguous and Linked list allocation for implementing file system?
64. Explain various Disk scheduling algorithms with Illustrations ?
65. Define process and thread. What is PCB ? Explain its various entries with their usefulness ?
66. Discuss advantages and disadvantages of the Buffer cache ?
67. Explain different types of OS with examples of each ?

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68. What is an Operating System? Write down its desirable characteristics ?
69. Define a deadlock ? Write down the conditions responsible for deadlock? How can we recover from deadlock ?
70. What are the various services provided by Operating system ?
71. What do you mean by PCB? Where is it used? What are its contents? Explain.
72. What is Binary and Counting semaphores ?
73. What is File? What are the different File attribute and operations?
74. What are System call? Explain briefly about various types of system call provided by an Operating System?
75. Describe necessary conditions for deadlocks situation to arise.
76. What are points to be consider in file system design? Explain linked list allocation in detail?
77. Write a Semaphore solution for dining Philosopher's problem?
78. Consider the following page reference string:1,2,3,4,5,3,4,1,2,7,8,7,8,9,7,8,9,5,4,5.
How many page faults would occur for the following replacement algorithm, assuming four frames:a) FIFO b) LRU
79. Explain CPU schedulers in operating system?
80. What is Mutex in operating system?
81. Explain Network operating system?
82. What do you mean by paging in operating system ?