

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.

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



Related posts:

1. Operating System: A List of Video Lectures RGPV Notes
2. GATE, Context switch calculation in SRTF algorithm | Prof. Jayesh Umre
3. Introduction to Operating Systems
4. Different Types of OS
5. Characteristics and features of an OS
6. Operating systems services
7. System Calls in OS
8. File Systems
9. How many page faults
10. Process State Diagram
11. Operating System Scheduler

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

12. FIFO page replacement algorithm
13. LRU page replacement algorithms
14. Optimal page replacement algorithm
15. SRTF shortest remaining time first
16. OS 4
17. OS 3
18. Os 2
19. Os 1
20. CBSE NET 2004 38
21. Cbse net 2004 37
22. Cbse net 2004
23. CBSE Net 2017
24. Ugc net 2017 solved
25. NET 4
26. NET 1
27. Net 28
28. Net 26
29. Net 50
30. Net 49
31. Net 48
32. Net 46
33. Net 44
34. Net 40
35. Net 39
36. GATE, Longest Remaining Time First Algorithm | Prof. Jayesh Umre
37. GATE SRTF | What is the total waiting time for process P2?
38. GATE Calculate Total Waiting Time SRTF algorithm | Prof. Jayesh Umre

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

39. Memory management
40. Concept of Threads
41. Process concept
42. Directory Structure OS
43. Contiguous disk space allocation method
44. File systems
45. Types of os
46. Evolution of os
47. Functions of os
48. Why is operating system a mandatory software?
49. Bankers algorithm problems
50. Diploma Linux Unit 3
51. RGPV Diploma Linnux Unit 2
52. Program to print string in reverse order
53. Program to implement while loop in Linux
54. Program to implement for loop using sequence keyword in Liux
55. Program to implement different types of increment in Linux
56. For loop without in keyword in Linux
57. Program to implement for loop using in keyword in Linux
58. Multiple Processor Scheduling
59. What do you mean by Virtual Memory? Write down its advantages?
60. Compare Paging and Segmentation?
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?

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

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 ?
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 ?