

Chapter 5 Process Scheduling

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Chapter 5 Process Scheduling

Title: Chapter 5: Process Scheduling 1 Chapter 5 Process Scheduling 2 Basic Concepts. Maximum CPU utilization can be obtained with multiprogramming, that is, the operating system keeps several jobs in memory simultaneously. CPU I/O Burst Cycle Process execution consists of a cycle of CPU execution and I/O wait.

PPT - Chapter 5: Process Scheduling PowerPoint ...

Operating System Concepts 5.6 Silberschatz, Galvin and Gagne ©2005 CPU Scheduler Selects from among the processes in memory that are ready to execute, and allocates the CPU to one of them CPU scheduling decisions may take place when a process: 1. Switches from running to waiting state 2. Switches from running to ready state

Chapter 5: Process Scheduling

Objectives To introduce process scheduling, which is the basis for multiprogrammed operating systemsoperating systems To describe various process-scheduling algorithms To discuss evaluation criteria for selecting a process-scheduling algorithm for a particular system Operating System Concepts – 8 th Edition 5.3 Silberschatz, Galvin and Gagne ©2009

Chapter 5: ProcessChapter 5: Process Scheduling

Chapter 5: Process Scheduling • Basic Concepts • Scheduling Criteria • Scheduling Algorithms • Multiple -Processor Scheduling • Thread Scheduling • Operating Systems Examples • Algorithm Evaluation 2009/11/2 2

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Chapter 5: Process Scheduling

Process - Scheduling Chapter 5 Scheduler Organization Scheduling Strategies and Methods S 2004 CS-325 2 Policy versus Mechanism • Separate what is allowed to be done with how it is done – a process knows which of its children threads are important and need priority • Inter-process communication (signals, messages)

Chapter 5 Process - Scheduling

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Chapter 5: Process Scheduling Lecture 5 10 14 2008 1 10.14.2008 Hao-Hua Chu Announcement • Nachos assignment #2 out on course webpage –Due in two weeks –TA will talk about this assignment today. 2

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1 Chapter 5 Process Scheduling CPU Scheduling Objective: Basic Scheduling Concepts CPU Scheduling Algorithms Why Multipr...

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CPU Scheduling Preemptive Scheduling Beside the instances for non-preemptive scheduling, CPU scheduling occurs whenever some process becomes ready or the running process leaves the running state! Issues involved: Protection of Resources, such as I/O queues or shared data, especially for multiprocessor or real-time systems. Synchronization

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Operating System Concepts –8th Edition 5.6 Silberschatz, Galvin and Gagne ©2009 CPU Scheduler Short-term scheduler Selects from among the processes in memory that are ready to execute, and allocates the CPU to one of them CPU scheduling decisions may take place when a process: 1. Switches from running to waiting state

Chapter 5: Process Scheduling

Process scheduling is an essential part of a Multiprogramming operating systems. Such operating systems allow more than one process to be loaded into the executable memory at a time and the loaded process shares the CPU using time multiplexing. Process Scheduling Queues. The OS maintains all PCBs in Process Scheduling Queues.

Operating System - Process Scheduling - Tutorialspoint

CHAPTER 5: DISTRIBUTED PROCESS SCHEDULING Chapter outline • Three process models: – precedence – communication ... Static scheduling - Precedence process model A/6 B/5 C/4 D/6 E/6 F/4 G/4 1 4 3 3 1 3 1 2 1 0 2 0 1 1 P1 P2 P3 0 (a) Precedence process model (b) Communication system model P1 P2 P3

CHAPTER 5: DISTRIBUTED PROCESS SCHEDULING

Chapter 5: CPU Scheduling ... First-Come, First-Served (FCFS) Scheduling Process Burst Time P 1 24 P 2 3 P 3 3

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Chapter 5: CPU Scheduling. Operating System Concepts Essentials – 8th Edition 5.2 Silberschatz, Galvin and Gagne ©2011 Chapter 5: CPU Scheduling ... Use these lengths to schedule the process with the shortest time ...

Chapter 5: CPU Scheduling

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