

## Chapter 5 Process Scheduling

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### Chapter 5: CPU Scheduling

CHAPTER 5: DISTRIBUTED PROCESS SCHEDULING Chapter outline • Three process models: – precedence – communication – disjoint • System performance model that illustrates the relationship among – algorithm, scheduling, and architecture • Scheduling: – Static scheduling: precedence model, communication model – Dynamic scheduling ...

### Chapter 5: CPU Scheduling

• process used its quantum is preempted and put to tail of the ready queue • a timer interrupts every quantum to schedule next process • Each process gets 1/n of the CPU time if there are n processes • no process waits more than (n-1)q time units • Turnaround time is not necessary decrease if we increase the quantum

### Chapter 5 Process Scheduling - csie.ntu.edu.tw

Scheduling Criteria CPU utilization –keep the CPU as busy as possible Throughput –# of processes that complete their execution per time unit Turnaround time –amount of time to execute a particular process Waiting time –amount of time a process has been waiting in the ready queue Response time –amount of time it takes from when a request was

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Chapter 5: Process Scheduling Basic Concepts Scheduling Criteria Scheduling Algorithms Thread Scheduling Multiple-Processor Scheduling Real-Time CPU Scheduling Operating Systems Examples Algorithm Evaluation. Operating System Concepts –9th Edition 6.3 Silberschatz, Galvin and Gagne ©2013

### Chapter 5: CPU Scheduling – Outline

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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 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)

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### Chapter 5: Process Scheduling

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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### Chapter 5: CPU Scheduling

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.

### Chapter 5: CPU Scheduling - Florida State University

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 ...

### ch05 - Chapter 5 Process Scheduling Silberschatz ...

In Chapter 4, we introduced threads to the process model. On operating systems that support them, it is kernel-level threads—not processes—that are in fact being scheduled by the operating system. However, the terms process scheduling and thread scheduling are often used interchangeably.

### CHAPTER 5: DISTRIBUTED PROCESS SCHEDULING

1 Chapter 5: CPU Scheduling – Outline What is scheduling in the OS ? What are common scheduling criteria ? How to evaluate scheduling algorithms ? What are common scheduling algorithms ? How is thread scheduling different from process scheduling ? What are the issues in multiple-processor scheduling ? Operating systems case studies.

### Chapter 5: CPU Scheduling

Chapter 5: Process Scheduling Basic Concepts Scheduling Criteria Scheduling Algorithms Multiple-Processor Scheduling Thread Scheduling Operating System Concepts 5.2 Silberschatz, Galvin and Gagne ©2005 Operating Systems Examples

### CHAPTER 5 - CPU Scheduling - Operating System Concepts ...

Operating System Concepts – 7th Edition, Feb 2, 2005 5.12 Silberschatz, Galvin and Gagne ©2005 Shortest-Job-First (SJF) Scheduling Associate with each process the length of its next CPU burst. Use these lengths to schedule the process with the shortest time Two schemes: znonpreemptive – once CPU given to the process it cannot be

### PPT – Chapter 5: Process Scheduling PowerPoint ...

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

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