



# Chapter 5: Process Scheduling

- Basic Concepts
- Scheduling Criteria
- Scheduling Algorithms
- Multiple-Processor Scheduling
- Operating Systems Examples (Linux)
- Algorithm Evaluation

Skip: 5.4, 5.5.4 - 5.6.2



# Chapter Process Scheduling

**Randy Chow, Theodore Johnson**



## **Chapter Process Scheduling:**

**Learn Operating System in 24 Hours** Alex Nordeen, 2022-07-18 Table Of Content Chapter 1 What is Operating System Explain Types of OS Features and Examples What is an Operating System History Of OS Examples of Operating System with Market Share Types of Operating System OS Functions of Operating System Features of Operating System OS Advantage of using Operating System Disadvantages of using Operating System What is Kernel in Operating System Features of Kernel Difference between Firmware and Operating System Difference between 32 Bit vs 64 Bit Operating System Chapter 2 What is Semaphore Binary Counting Types with Example What is Semaphore Characteristic of Semaphore Types of Semaphores Example of Semaphore Wait and Signal Operations in Semaphores Counting Semaphore vs Binary Semaphore Difference between Semaphore vs Mutex Advantages of Semaphores Disadvantage of semaphores Chapter 3 Components of Operating Systems What are OS Components File Management Process Management I O Device Management Network Management Main Memory management Secondary Storage Management Security Management Other Important Activities Chapter 4 Microkernel in Operating System Architecture Advantages What is Kernel What is Microkernel What is a Monolithic Kernel Microkernel Architecture Components of Microkernel Difference Between Microkernel and Monolithic Kernel Advantages of Microkernel Disadvantage of Microkernel Chapter 5 System Call in OS Operating System What is Types and Examples What is System Call in Operating System Example of System Call How System Call Works Why do you need System Calls in OS Types of System calls Rules for passing Parameters for System Call Important System Calls Used in OS Chapter 6 File Systems in Operating System Structure Attributes Type What is File System Objective of File management System Properties of a File System File structure File Attributes File Type Functions of File Commonly used terms in File systems File Access Methods Space Allocation File Directories File types name extension Chapter 7 Real time operating system RTOS Components Types Examples What is a Real Time Operating System RTOS Why use an RTOS Components of RTOS Types of RTOS Terms used in RTOS Features of RTOS Factors for selecting an RTOS Difference between in GPOS and RTOS Applications of Real Time Operating System Disadvantages of RTOS Chapter 8 Remote Procedure Call RPC Protocol in Distributed System What is RPC Types of RPC RPC Architecture How RPC Works Characteristics of RPC Features of RPC Advantages of RPC Disadvantages of RPC Chapter 9 CPU Scheduling Algorithms in Operating Systems What is CPU Scheduling Types of CPU Scheduling Important CPU scheduling Terminologies CPU Scheduling Criteria Interval Timer What is Dispatcher Types of CPU scheduling Algorithm First Come First Serve Shortest Remaining Time Priority Based Scheduling Round Robin Scheduling Shortest Job First Multiple Level Queues Scheduling The Purpose of a Scheduling algorithm Chapter 10 Process Management in Operating System PCB in OS What is a Process What is Process Management Process Architecture Process Control Blocks Process States Process Control Block PCB Chapter 11 Introduction to DEADLOCK in Operating System What is Deadlock Example of Deadlock What is Circular wait Deadlock Detection Deadlock Prevention

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system functionality with examples incorporated for improved learning With the updating of Silberschatz s Operating System Concepts 10th Edition students have access to a text that presents both important concepts and real world applications Key concepts are reinforced in this global edition through instruction chapter practice exercises homework exercises and suggested readings Students also receive an understanding how to apply the content The book provides example programs written in C and Java for use in programming environments

*Operations Management* Ray R. Venkataraman, Jeffrey K. Pinto, 2018-11-29 *Operations Management Managing Global Supply Chains* takes a holistic integrated approach to managing operations and supply chains by exploring the strategic tactical and operational decisions and challenges facing organizations worldwide Authors Ray R Venkataraman and Jeffrey K Pinto address sustainability in each chapter showing that sustainable operations and supply chain practices are not only attainable but are critical and often profitable practices for organizations to undertake With a focus on critical thinking and problem solving *Operations Management* provides students with a comprehensive introduction to the field and equips them with the tools necessary to thrive in today s evolving global business environment

*Computer Programming and Architecture* Henry Levy, Richard Eckhouse, 2014-06-28 Takes a unique systems approach to programming and architecture of the VAX Using the VAX as a detailed example the first half of this book offers a complete course in assembly language programming The second describes higher level systems issues in computer architecture Highlights include the VAX assembler and debugger other modern architectures such as RISCs multiprocessing and parallel computing microprogramming caches and translation buffers and an appendix on the Berkeley UNIX assembler

**Understanding the Linux Kernel** Daniel Pierre Bovet, Marco Cesati, 2002 To thoroughly understand what makes Linux tick and why it s so efficient you need to delve deep into the heart of the operating system into the Linux kernel itself The kernel is Linux in the case of the Linux operating system it s the only bit of software to which the term Linux applies The kernel handles all the requests or completed I O operations and determines which programs will share its processing time and in what order Responsible for the sophisticated memory management of the whole system the Linux kernel is the force behind the legendary Linux efficiency The new edition of *Understanding the Linux Kernel* takes you on a guided tour through the most significant data structures many algorithms and programming tricks used in the kernel Probing beyond the superficial features the authors offer valuable insights to people who want to know how things really work inside their machine Relevant segments of code are dissected and discussed line by line The book covers more than just the functioning of the code it explains the theoretical underpinnings for why Linux does things the way it does The new edition of the book has been updated to cover version 2.4 of the kernel which is quite different from version 2.2 the virtual memory system is entirely new support for multiprocessor systems is improved and whole new classes of hardware devices have been added The authors explore each new feature in detail Other topics in the book include Memory management including file buffering process swapping and Direct memory Access DMA The Virtual Filesystem and the Second Extended Filesystem

Process creation and scheduling Signals interrupts and the essential interfaces to device drivers Timing Synchronization in the kernel Interprocess Communication IPC Program execution Understanding the Linux Kernel Second Edition will acquaint you with all the inner workings of Linux but is more than just an academic exercise You ll learn what conditions bring out Linux s best performance and you ll see how it meets the challenge of providing good system response during process scheduling file access and memory management in a wide variety of environments If knowledge is power then this book will help you make the most of your Linux system

**Understanding the Linux Kernel** Daniel P. Bovet,Marco Cesati,2005-11-17 In order to thoroughly understand what makes Linux tick and why it works so well on a wide variety of systems you need to delve deep into the heart of the kernel The kernel handles all interactions between the CPU and the external world and determines which programs will share processor time in what order It manages limited memory so well that hundreds of processes can share the system efficiently and expertly organizes data transfers so that the CPU isn t kept waiting any longer than necessary for the relatively slow disks The third edition of Understanding the Linux Kernel takes you on a guided tour of the most significant data structures algorithms and programming tricks used in the kernel Probing beyond superficial features the authors offer valuable insights to people who want to know how things really work inside their machine Important Intel specific features are discussed Relevant segments of code are dissected line by line But the book covers more than just the functioning of the code it explains the theoretical underpinnings of why Linux does things the way it does This edition of the book covers Version 2.6 which has seen significant changes to nearly every kernel subsystem particularly in the areas of memory management and block devices The book focuses on the following topics Memory management including file buffering process swapping and Direct memory Access DMA The Virtual Filesystem layer and the Second and Third Extended Filesystems Process creation and scheduling Signals interrupts and the essential interfaces to device drivers Timing Synchronization within the kernel Interprocess Communication IPC Program execution Understanding the Linux Kernel will acquaint you with all the inner workings of Linux but it s more than just an academic exercise You ll learn what conditions bring out Linux s best performance and you ll see how it meets the challenge of providing good system response during process scheduling file access and memory management in a wide variety of environments This book will help you make the most of your Linux system

*Operating Systems* William Stallings,1995 Providing a comprehensive introduction to operating systems this book emphasizes the fundamentals of the key mechanisms of modern operating systems and the types of design tradeoffs and decisions involved in operating system design It presents recent developments in operating system design and uses three running examples of operating systems to illustrate the material Windows NT UNIX and IBM MVS

**Distributed Operating Systems & Algorithms** Randy Chow,Theodore Johnson,1997 Distributed Operating Systems and Algorithms integrates into one text both the theory and implementation aspects of distributed operating systems for the first time This innovative book provides the reader with knowledge of the important algorithms

necessary for an in depth understanding of distributed systems at the same time it motivates the study of these algorithms by presenting a systems framework for their practical application The first part of the book is intended for use in an advanced course on operating systems and concentrates on parallel systems distributed systems real time systems and computer networks The second part of the text is written for a course on distributed algorithms with a focus on algorithms for asynchronous distributed systems While each of the two parts is self contained extensive cross referencing allows the reader to emphasize either theory or implementation or to cover both elements of selected topics Features Integrates and balances coverage of the advanced aspects of operating systems with the distributed algorithms used by these systems Includes extensive references to commercial and experimental systems to illustrate the concepts and implementation issues Provides precise algorithm description and explanation of why these algorithms were developed Structures the coverage of algorithms around the creation of a framework for implementing a replicated server a prototype for implementing a fault tolerant and highly available distributed system Contains programming projects on such topics as sockets RPC threads and implementation of distributed algorithms using these tools Includes an extensive annotated bibliography for each chapter pointing the reader to recent developments Solutions to selected exercises templates to programming problems a simulator for algorithms for distributed synchronization and teaching tips for selected topics are available to qualified instructors from Addison Wesley 0201498383B04062001

**Operating System Concepts** Abraham Silberschatz,Peter B. Galvin,Greg Gagne,2005 This new seventh edition of the book has been brought up to date to include recent developments in operating systems such as Windows XP and the new small footprint operating systems that work in hand held devices such as the Palm and in cell phones Most of the book is on general purpose operating systems such as Linux and those from Microsoft But at the end of the book there are chapters on other types of operating such as Real Time Operating Systems and MultiMedia OS s Finally there are some chapters which the authors call case studies In these one chapter goes into a detailed discussion of Linux another chapter covers Windows XP Chapter 23 covers several early operating systems that helped to define the features that make up modern os s These include Atlas XDX 940 THE RC 4000 CTSS MULTICS OS 360 and MACH along with brief mentions of several others Note that this not a book on how to use operating systems this is a book on how operating systems are designed It is intended for upper level undergraduate students or first year graduate students

**Computer Programming and Architecture--the VAX-11** Henry M. Levy,Richard H. Eckhouse,1980

**Understanding Operating Systems** Ida M. Flynn,Ann McIver McHoes,2006 This fourth edition blends operating systems theory and practice in a well organized way Its innovative two part approach explores operating systems theory and development in the first section and discusses the four most widely used operating systems MS DOS Windows Linux and UNIX in the second Each chapter has been updated for currency and a brand new chapter on System Security has been added

*Thread Time* Scott J. Norton,Mark D. DiPasquale,1997 Accompanying CD ROM contains practical information including all the code examples

discussed in the book UNIX System V Release 4 System Administrator's Guide ,1992 Oracle Business Process Management Suite 11g Handbook Manoj Das,Manas Deb,Mark Wilkins,2011-10-21 Master Oracle Business Process Management Suite 11g Written by Oracle business process management experts Oracle Business Process Management Suite 11g Handbook is a balanced combination of essential BPM concepts best practices and a detailed treatment of all the powerful features and functionalities of Oracle BPM Suite 11g The book explains how to plan develop and deploy process based business applications and enable enterprise wide continuous process improvement Implement successful BPM projects with help from this Oracle Press guide Understand the architecture and functionalities of Oracle BPM Suite 11g Master BPMN 2 0 for business process modeling and implementation Address agility business control and transparency requirements with Oracle Business Rules 11g Develop rich interfaces with Oracle Application Development Framework Oracle ADF Work with the human task component of Oracle BPM 11g Plan a BPM initiative using the Oracle roadmap approach Apply the Oracle process engineering method to identify select define and refine appropriate processes Implement a business process application using proven technical design and project delivery strategies **The Management of Operations** Jack R. Meredith,Thomas E. Gibbs,1984 **Operations and Production Management** Michael A. Peters,Terence Anthony Oliva,1981 VMS Internals and Data Structures Ruth E. Goldenberg,1989 *Factory Management Course and Service: Planning and time studies, by G. S. Armstrong* ,1921 *Unix System V/386, Release 4* ,1991 **Industrial Engineering Methods and Controls** Donald R. Herzog,1985

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