

Chapter 1 : Operating Systems: Internals and Design Principles by William Stallings

A state-of-the art survey of operating system principles. Covers fundamental technology as well as contemporary design issues, such as threads, microkernels, SMPs, real-time systems, multiprocessor scheduling, embedded OSs, distributed systems, clusters, security, and object-oriented design.

A number of useful links. Operating System Development Series: A series of 25 tutorials that walk you through the process of creating an OS from the ground up. The little book about OS development: This course walks through the complete process of developing an x86 operating system by beginning with setting up a programming environment, culminating in programming for multitasking, and hitting topics such as managing system memory and developing file systems along the way. Lengthy and worthwhile FAQ covering operating system design issues. The name describes the site. Provides a wide range of technical and user information on Linux. Much of it is devoted to IBM products but there is a lot of useful general technical information. Good source of information on Windows internals. A marvelous tutorial video on timesharing, with Corbato. A number of documents on embedded operating systems. Wide variety of information on embedded systems. Downloadable software, information, and links on eCos. Maintained by NIST; contains a broad range of information on security threats, technology, and standards. The organization that grew from the computer emergency response team formed by the Defense Advanced Research Projects Agency. Site provides good information on Internet security threats, vulnerabilities, and attack statistics. Dedicated to exposing virus hoaxes and dispelling misconceptions about real viruses. Web site for Snort, an open source network intrusion prevention and detection system. Site maintained by commercial antivirus software provider. Good collection of useful information on viruses, hackers, and spam. Consortium of leading IT organizations developing interoperable solutions and services for cloud computing. Open source software for creating private and public clouds. Useful information, links, and documents. Provides information on available cloud computing services. Internet of Things World Forum: A number of useful documents and videos. Open source software for IoT. SQL Resources A lot of useful information and links.

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Dr. William Stallings has authored 18 titles, and including the revised editions, over 40 books on computer security, computer networking, and computer architecture. His writings have appeared in numerous publications, including the Proceedings of the IEEE, ACM Computing Reviews and Cryptologia.

Internals and Design Principles is intended for use in a one- or two-semester undergraduate course in operating systems for computer science, computer engineering, and electrical engineering majors. It also serves as a useful reference for programmers, systems engineers, network designers and others involved in the design of computer products, information system and computer system personnel. Operating Systems provides a comprehensive and unified introduction to operating systems topics. Stallings emphasizes both design issues and fundamental principles in contemporary systems and gives readers a solid understanding of the key structures and mechanisms of operating systems. He discusses design trade-offs and the practical decisions affecting design, performance and security. The book illustrates and reinforces design concepts and ties them to real-world design choices through the use of case studies in Linux, UNIX, Android, and Windows 8.

Teaching and Learning Experience This program presents a better teaching and learning experience for you and your students.

Illustrate Concepts with Running Case Studies: To illustrate the concepts and to tie them to real-world design choices that must be made, four operating systems serve as running examples.

Easily Integrate Projects in your Course: This book provides an unparalleled degree of support for including a projects component in the course. This edition covers the latest trends and developments in operating systems. Student and instructor resources are available to expand on the topics presented in the text. He has authored 17 titles, and counting revised editions, a total of 41 books on various aspects of these subjects. In over 20 years in the field, he has been a technical contributor, technical manager, and an executive with several high-technology firms. Currently he is an independent consultant whose clients have included computer and networking manufacturers and customers, software development firms, and leading-edge government research institutions. As a consultant, he has advised government agencies, computer and software vendors, and major users on the design, selection, and use of networking software and products. As evidence of his commitment to providing a broad range of support to students, Bill created and maintains the Computer Science Student Resource Site at WilliamStallings. This site provides documents and links on a variety of subjects of general interest to computer science students and professionals. He is a member of the editorial board of Cryptologia, a scholarly journal devoted to all aspects of cryptology. He is a frequent lecturer and author of numerous technical papers. Stallings holds a PhD from M.

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This text covers concepts, structure, and mechanisms of operating systems. Stallings presents the nature and characteristics of modern-day operating systems clearly and completely.

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