Operating System Concepts, 6th Edition

By Abraham Silberschatz, Peter B. Galvin, Greg Gagne, A Silberschatz

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Celebrating its 20th anniversary, Silberschatz: Operating Systems Concepts, Sixth Edition, continues to provide a solid theoretical foundation for understanding operating systems. The Sixth Edition offers improved conceptual coverage and added content to bridge the gap between concepts and actual implementations. Threads has been added to this latest edition and includes coverage of Pthreads and Java threads. All code examples have been rewritten and are now in C. Increased coverage of small footprint operating systems such as PalmOS and real-time operating system, as well as a new chapter on Windows 2000, have been added.
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Editorial Review

Amazon.com Review
Operating systems are large and complex, and yet must function with near-absolute reliability--that's why they're a class unto themselves in the field of software development. Since its first release 20 years ago, "the dinosaur book"--*Operating System Concepts* by Abraham Silberschatz, Peter Baer Galvin, and Greg Gagne-- has been a valuable reference for designers and implementers of operating systems. The newly released sixth edition of this book maintains the volume's authority with new sections on thread management, distributed processes, and the Java Virtual Machine (JVM). There's also information on the workings of the latest crop of operating systems, including Microsoft Windows 2000, Linux, FreeBSD, and compact operating systems for handheld devices.

This book is concerned with the design of operating systems, which is to say it enumerates the problems that pop up in the creation of efficient systems and explores alternative ways of dealing with them, detailing the advantages and shortcomings of each. For example, in their chapter on scheduling CPU activity, the authors explain several algorithms (first-come, first-served, and round-robin scheduling, among others) for allocating the capacity of single and multiple processors among jobs. They highlight the relative advantages of each, and explain how several real-life operating systems solve the problem. They then present the reader with exercises (this book is essentially a university textbook) that inspire thought and discussion. *--David Wall*

Topics covered: The problems faced by designers of system software for electronic computers, and strategies that have been developed over the past 20 years to address (and, in some cases, solve) them. Problems of CPU scheduling, memory allocation, paging, processes and threads, storage management, distributed processes and storage mechanisms, and security are all discussed thoroughly and with many authoritative references.

From the Back Cover
For the past two decades, dinosaurs have roamed the cover of Silberschatz, Galvin, and Gagne's **OPERATING SYSTEM CONCEPTS**. The product of a long process of evolutionary adaptations, this best-selling text has continually evolved to address the latest trends in operating system design. With its strong emphasis on underlying concepts and rich selection of examples and case studies, no other text provides such a solid theoretical foundation for understanding operating systems.

Now in a fully revised and updated Sixth Edition, **OPERATING SYSTEM CONCEPTS** offers new chapters on Threads and Windows 2000, as well as new and expanded coverage of the client-server model and NFS, small footprint operating systems for PDAs, real-time operating systems, Linux, FreeBSD, distributed operating systems, and more.

About the Author
ABRAHAM SILBERSCHATZ is the director of the Information Sciences Research Center at Bell Laboratories in Murray Hill, New Jersey. Prior to joining Bell Labs, he held a chaired professorship in the Department of Computer Sciences at the University of Texas at Austin. Dr. Silberschatz is a Fellow of the ACM. He is recognized as a leading researcher, educator, and author in operating systems, database systems, and distributed systems. His writings have appeared in numerous ACM and IEEE publications, as well as in other journals and proceedings of professional conferences. He is the coauthor of the textbook

Database System Concepts (Third Edition, McGraw-Hill, 1997).

PETER BAER GALVIN is the Chief Technologist for Corporate Technologies, a systems-integration and consulting company. He is also Adjunct Systems Planner for Brown University's Computer Science Department. Mr. Galvin is on the Board of Directors for the Sun User Group and has presented talks and tutorials worldwide on the topics of system management, security,and performance. He is the security columnist for SunWorld Magazine.

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