Structured Computer Organization

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Structured Computer Organization, specifically written for undergraduate students, is a best-selling guide that provides an accessible introduction to computer hardware and architecture. This text will also serve as a useful resource for all computer professionals and engineers who need an overview or introduction to computer architecture. This book takes a modern structured, layered approach to understanding computer systems. It's highly accessible - and it's been thoroughly updated to reflect today's most critical new technologies and the latest developments in computer organization and architecture. Tanenbaum's renowned writing style and painstaking research make this one of the most accessible and accurate books available, maintaining the author's popular method of presenting a computer as a series of layers, each one built upon the ones below it, and understandable as a separate entity.

作者介绍:

Andrew S. Tanenbaum has a B.S. Degree from M.I.T. and a Ph.D. from the University of California at Berkeley. He is currently a Professor of Computer Science at the Vrije Universiteit in Amsterdam, The Netherlands, where he heads the Computer Systems

Group. Until 2005, he was the Dean of the Advanced School for Computing and Imaging, an inter-university graduate school doing research on advanced parallel, distributed, and imaging systems.

In the past, he has done research on compilers, operating systems, networking, and local-area distributed systems. His current research focuses primarily on the design of wide-area distributed systems that scale to a billion users. These research projects have led to five books and over 85 referred papers in journals and conference proceedings.

Prof. Tanenbaum has also produced a considerable volume of software. He was the principal architect of the Amsterdam Compiler Kit, a widely-used toolkit for writing portable compilers, as well as of MINIX, a small UNIX clone intended for use in student programming labs. Together with his Ph.D. students and programmers, he helped design the Amoeba distributed operating system, a high-performance microkernel-based distributed operating system. The MINIX and Amoeba systems are now available for free via the Internet..

Prof. Tanenbaum is a Fellow of the ACM, a Fellow of the IEEE, a member of the Royal Netherlands Academy of Arts and Sciences, winner of the 1994 ACM Karl V. Karlstrom Outstanding Educator Award, and winner of the 1997 ACM/SIGCSE Award for Outstanding Contributions to Computer Science Education. He is also listed in Who’s Who in the World.

Todd Austin is a Professor of Electrical Engineering and Computer Science at the University of Michigan in Ann Arbor. His research interests include computer architecture, reliable system design, hardware and software verification, and performance analysis tools and techniques. Prior to joining academia, Todd was a Senior Computer Architect in Intel's Microcomputer Research Labs , a product-oriented research laboratory in Hillsboro, Oregon. Todd is the first to take credit (but the last to accept blame) for creating the SimpleScalar Tool Set, a popular collection of computer architecture performance analysis tools. In addition to his work in academia, Todd is co-founder of SimpleScalar LLC and InTempo Design LLC. In 2002, Todd was a Sloan Research Fellow , and in 2007 he received the ACM Maurice Wilkes Award for "for innovative contributions in Computer Architecture including the SimpleScalar Toolkit and the DIVA and Razor architectures." Todd received his Ph.D. in Computer Science from the University of Wisconsin in 1996.

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标签

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评论

结构化、也叫层次化计算机组成，让人对计算机的结构栈有一个清醒的认识

作者极爱恶意卖萌以及讲不好笑的冷笑话-_-

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书评

这本书给我最大的启发不是说它的知识讲的有多高深，有多详细。
而是本书给我带来了层次化的思想和视角，我们知道，计算机是一个很复杂的系统，要想理解这一复杂系统，是比较困难的。当年学习计算机组成原理的时候就是一头雾水。为什么，教材把关于计算机的所有层面的知识堆在...

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