

[PDF] Computer Organization And Design MIPS Edition, Fifth Edition: The Hardware/Software Interface (The Morgan Kaufmann Series In Computer Architecture And Design)

David A. Patterson, John L. Hennessy - pdf download free book



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Description:

Computer Organization and Design, Fifth Edition, is the latest update to the classic introduction to computer organization. The text now contains new examples and material highlighting the emergence of mobile computing and the cloud. It explores this generational change with updated content featuring tablet computers, cloud infrastructure, and the ARM (mobile computing devices) and x86 (cloud computing) architectures. The book uses a MIPS processor core to present the fundamentals of hardware technologies, assembly language, computer arithmetic, pipelining, memory hierarchies and I/O. Because an understanding of modern hardware is essential to achieving good performance and energy efficiency, this edition adds a new concrete example, *Going Faster*, used throughout the text to demonstrate extremely effective optimization techniques. There is also a new discussion of the Eight Great Ideas of computer architecture. Parallelism is examined in depth with examples and content highlighting parallel hardware and software topics. The book features the Intel Core i7, ARM Cortex-A8 and NVIDIA Fermi GPU as real-world examples, along with a full set of updated and improved exercises.

This new edition is an ideal resource for professional digital system designers, programmers, application developers, and system software developers. It will also be of interest to undergraduate students in Computer Science, Computer Engineering and Electrical Engineering courses in Computer Organization, Computer Design, ranging from Sophomore required courses to Senior Electives.

- Winner of a 2014 Texty Award from the Text and Academic Authors Association
 - Includes new examples, exercises, and material highlighting the emergence of mobile computing and the cloud
 - Covers parallelism in depth with examples and content highlighting parallel hardware and software topics
 - Features the Intel Core i7, ARM Cortex-A8 and NVIDIA Fermi GPU as real-world examples throughout the book
 - Adds a new concrete example, "Going Faster," to demonstrate how understanding hardware can inspire software optimizations that improve performance by 200 times
 - Discusses and highlights the "Eight Great Ideas" of computer architecture: Performance via Parallelism; Performance via Pipelining; Performance via Prediction; Design for Moore's Law; Hierarchy of Memories; Abstraction to Simplify Design; Make the Common Case Fast; and Dependability via Redundancy
 - Includes a full set of updated and improved exercises
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Computer Organization and Design: The Hardware/Software Interface, Sixth Edition, the leading, award-winning textbook from Patterson and Hennessy used by more than 40,000 students per year, continues to present the most comprehensive and readable introduction to this core computer science topic. Improvements to this new release include new sections in each chapter on Domain Specific Architectures (DSA) and updates on all real-world examples that keep it fresh and relevant for a new generation of students. Computer Organization and Design ARM Edition: The Hardware Software Interface. David A. Patterson. 4.0 out of 5 stars 43. The content of this book is definitely good, but the digital packaging of it is utter crap. This book is designed as a textbook, and as such, when my professor refers to page numbers, I would expect to be able to simply go to the specified page. Except I can't. Because the digital version is just one long manuscript. One of my friends purchased the actual physical book, and not only does it have page numbers (as it should), the layout itself is both quite different and far superior. Bottom line, unless they fix the incredibly poor formatting of the digital version, get the physical one if Start by marking "Computer Organization and Design MIPS Edition: The Hardware/Software Interface" as Want to Read: Want to Read savingâ€¦ Want to Read. The 5th edition of "Computer Organization and Design" moves forward into the post-PC era with new examples, exercises, and material highlighting the emergence of mobile computing and the cloud. This generational change is emphasized and explored with updated content featuring tablet computers, cloud infrastructure, and the ARM (mobile computing devices) and x86 (cloud comp The 5th edition of "Computer Organization and Design" moves forward into the post-PC era with new examples, exercises, and material highlighting the emergence of mobile computing and the cloud. The new ARM Edition of Computer Organization and Design features a subset of the ARMv8-A architecture, which is used to Computer Organization and Design, Fourth Edition: The Hardware Software Interface (The Morgan Kaufmann Series in Computer Architecture and Design). 457 Pages 2008 252.45 MB 21,001 Downloads New! The best-selling computer organization book is thoroughly updated to provide a new focus on the revolutionary change tak ... Computer Architecture: A Quantitative Approach, Sixth Edition has been considered essential reading by instructors, stud Computer Architecture A Quantitative Approach by John L. Hennessy & David A. Patterson Morgan 1,357 Pages 2013 12.5 MB 11,574 Downloads. Computer Organization and Design ARM Edition: The Hardware Software Interface (The Morgan Kaufmannâ€¦) by David A. Patterson Paperback 5 313,00 â‚¬. Only 1 left in stock. Sold by Atlantic Publishers and Distributors and ships from Amazon Fulfillment.

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