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Behrooz Parhami - Electrical and Computer Engineering

Suitable for graduate and senior undergraduate level courses in computer arithmetic and advanced digital design, this title provides treatment of computer arithmetic, covering topics in arithmetic unit design and circuit implementation that complement the architectural and algorithmic speedup techniques used in high-performance computer architecture and parallel processing.

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CONTEXT OF PARALLEL PROCESSING The field of digital computer architecture has grown explosively in the past two decades.

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Computer Architecture. From Microprocessors to Supercomputers. Behrooz Parhami. Publication Date - February 2005. ISBN: 9780195154559. 576 pages Hardcover 7-1/2 x 9-1/4 inches Retail Price to Students: \$144.95. The world of computer architecture in flexible, lecture-sized chapters.

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This textbook is designed for the first course in Computer Architecture, usually offered at the junior/senior (3rd, 4th year) level in electrical engineering, computer science or computer engineering

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departments. This course is required of all electrical engineering and computer science/computer engineering majors specializing in the design of computer systems. This text provides a comprehensive introduction to computer architecture, covering topic from design of simple microprocessors to techniques used in the most advanced supercomputers.

THE CONTEXT OF PARALLEL PROCESSING The field of digital computer architecture has grown explosively in the past two decades. Through a steady stream of experimental research, tool-building efforts, and theoretical studies, the design of an instruction-set architecture, once considered an art, has been transformed into one of the most quantitative branches of computer technology. At the same time, better understanding of various forms of concurrency, from standard pipelining to massive parallelism, and invention of architectural structures to support a reasonably efficient and user-friendly programming model for such systems, has allowed hardware performance to continue its exponential growth. This trend is expected to continue in the near future. This explosive growth, linked with the expectation that performance will continue its exponential rise with each new generation of hardware and that (in stark contrast to software) computer hardware will function correctly as soon as it comes off the assembly line, has its down side. It has led to unprecedented hardware complexity and almost intolerable development costs. The challenge facing current and future computer designers is to institute simplicity where we now have complexity; to use fundamental theories being developed in this area to gain performance and ease-of-use benefits from simpler circuits; to understand the interplay between technological capabilities and limitations, on the one hand, and design decisions based on user and application requirements on the other.

Ideal for graduate and senior undergraduate courses in computer arithmetic and advanced digital design, Computer Arithmetic:

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Algorithms and Hardware Designs, Second Edition, provides a balanced, comprehensive treatment of computer arithmetic. It covers topics in arithmetic unit design and circuit implementation that complement the architectural and algorithmic speedup techniques used in high-performance computer architecture and parallel processing. Using a unified and consistent framework, the text begins with number representation and proceeds through basic arithmetic operations, floating-point arithmetic, and function evaluation methods. Later chapters cover broad design and implementation topics-including techniques for high-throughput, low-power, fault-tolerant, and reconfigurable arithmetic. An appendix provides a historical view of the field and speculates on its future. An indispensable resource for instruction, professional development, and research, *Computer Arithmetic: Algorithms and Hardware Designs, Second Edition*, combines broad coverage of the underlying theories of computer arithmetic with numerous examples of practical designs, worked-out examples, and a large collection of meaningful problems. This second edition includes a new chapter on reconfigurable arithmetic, in order to address the fact that arithmetic functions are increasingly being implemented on field-programmable gate arrays (FPGAs) and FPGA-like configurable devices. Updated and thoroughly revised, the book offers new and expanded coverage of saturating adders and multipliers, truncated multipliers, fused multiply-add units, overlapped quotient digit selection, bipartite and multipartite tables, reversible logic, dot notation, modular arithmetic, Montgomery modular reduction, division by constants, IEEE floating-point standard formats, and interval arithmetic. Features: * Divided into 28 lecture-size chapters * Emphasizes both the underlying theories of computer arithmetic and actual hardware designs * Carefully links computer arithmetic to other subfields of computer engineering * Includes 717 end-of-chapter problems ranging in complexity from simple exercises to mini-projects * Incorporates many examples of practical designs * Uses consistent standardized notation throughout * Instructor's manual includes solutions to text problems * An author-

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maintained website http://www.ece.ucsb.edu/parhami/text_comp_arit.htm contains instructor resources, including complete lecture slides

The authoritative reference on the theory and design practice of computer arithmetic.

This text explains the fundamental principles of algorithms available for performing arithmetic operations on digital computers. These include basic arithmetic operations like addition, subtraction, multiplication, and division in fixed-point and floating-point number systems as well as more complex operations such as square root extraction and evaluation of exponential, logarithmic, and trigonometric functions. The algorithms described are independent of the particular technology employed for their implementation.

This title provides a view of computer arithmetic, covering topics in arithmetic unit design and circuit implementation that complement the architectural and algorithmic speedup techniques used in high-performance computer architecture and parallel processing.

This book describes warehouse-scale computers (WSCs), the computing platforms that power cloud computing and all the great web services we use every day. It discusses how these new systems treat the datacenter itself as one massive computer designed at warehouse scale, with hardware and software working in concert to deliver good levels of internet service performance. The book details the architecture of WSCs and covers the main factors influencing their design, operation, and cost structure, and the characteristics of their software base. Each chapter contains multiple real-world examples, including detailed case studies and previously unpublished details of the infrastructure used to power Google's online services. Targeted at the architects and programmers of today's WSCs, this book provides a great foundation for those looking to innovate in this fascinating and

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important area, but the material will also be broadly interesting to those who just want to understand the infrastructure powering the internet. The third edition reflects four years of advancements since the previous edition and nearly doubles the number of pictures and figures. New topics range from additional workloads like video streaming, machine learning, and public cloud to specialized silicon accelerators, storage and network building blocks, and a revised discussion of data center power and cooling, and uptime. Further discussions of emerging trends and opportunities ensure that this revised edition will remain an essential resource for educators and professionals working on the next generation of WSCs.

Solving the Immigrant Church Crisis: The Biblical Solution of Parallel Ministry (Acts 6:1-7) addresses the crisis of the immigrant church in which complex cultural and linguistic factors create a reticence on the part of immigrants to transfer financial and decision-making authority to succeeding generations, and this results in a culturally irrelevant ministry to those generations, an exodus of believers from the church, a spiritually immature remnant, and an inability to reach the lost. The thesis of this book is that parallel ministry, based on Acts 6:1-7, is the biblical solution to the crisis in the immigrant church. While there are at least two main aspects of this crisis, a spiritual-relational and an ecclesiastical aspect, this book focuses on the ecclesiastical aspect of defining the biblical structure of church government. Specifically, this book is for immigrant churches primarily in the United States and offers them a biblical and practical solution to the problem plaguing them for over two centuries of how to minister effectively to the succeeding generations.

Designed as an introductory text for the students of computer science, computer applications, electronics engineering and information technology for their first course on the organization and architecture of computers, this accessible, student friendly text gives a clear and in-depth analysis of the basic principles underlying the subject. This self-

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contained text devotes one full chapter to the basics of digital logic. While the initial chapters describe in detail about computer organization, including CPU design, ALU design, memory design and I/O organization, the text also deals with Assembly Language Programming for Pentium using NASM assembler. What distinguishes the text is the special attention it pays to Cache and Virtual Memory organization, as well as to RISC architecture and the intricacies of pipelining. All these discussions are climaxed by an illuminating discussion on parallel computers which shows how processors are interconnected to create a variety of parallel computers. **KEY FEATURES** Self-contained presentation starting with data representation and ending with advanced parallel computer architecture. Systematic and logical organization of topics. Large number of worked-out examples and exercises. Contains basics of assembly language programming. Each chapter has learning objectives and a detailed summary to help students to quickly revise the material.

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