

Computer Architecture And Organization Miles Murdocca

Edwin D. Reilly

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Computer Architecture and Organization Miles J. Murdocca, Vincent P. Heuring, 2007-03-16 An accessible introduction to computer systems and architecture Anyone aspiring to more advanced studies in computer related fields must gain an understanding of the two parallel aspects of the modern digital computer programming methodology and the underlying machine architecture The uniquely integrated approach of Computer Architecture and Organization connects the programmer's view of a computer system with the associated hardware and peripheral devices providing a thorough three dimensional view of what goes on inside the machine Covering all the major topics normally found in a first course in computer architecture the text focuses on the essentials including the instruction set architecture ISA network related issues and programming methodology Using real world case studies to put the information into perspective the chapters examine Data representation Arithmetic The instruction set architecture Datapath and Control Languages and the machine Memory Buses and peripherals Networking and communication Advanced computer architecture A valuable feature of this book is the use of ARC a subset of the SPARC processor for an instruction set architecture A platform independent ARCTools suite containing an assembler and simulator for the ARC ISA that supports the examples used in the book is available Better yet the content is supplemented by online problem sets available through WileyPlus Balanced and thoughtfully designed for use as either a classroom text or self study guide Computer Architecture and Organization An Integrated Approach will put you solidly on track for advancing to higher levels in computer related disciplines About the Author MILES MURDOCCAserves as the President and CEO of Internet Institute USA IIUSA a private postsecondary information technology IT school specializing in networking operating systems IP telephony programming and security Previously Dr Murdocca has been a computer science faculty member at Rutgers University and a research scientist at ATT Bell Laboratories working in computer architecture networking and digital optical computing He is the author of A Digital Design Methodology for Optical Computing and Principles of Computer Architecture and a contributing author to Computer Systems Design and Architecture Second Edition as well as the author of dozens of professional papers and patents relating to information technology VINCE HEURING is an associate professor and acting chair of the Department of Electrical and Computer Engineering at the University of Colorado at Boulder He has been at the university since 1984 and prior to that he spent three years at the University of Cincinnati Professor Heuring's research encompasses computer architectures and programming language design implementation He and his colleague Harry Jordan designed and built the world's first stored program optical computer SPOC **Computer Architecture and Organisation** Murdocca, 2007-03-21 Giving introduction to computer systems and architecture this book covers the major topics normally found in a first course in computer architecture It focuses on the essentials including the instruction set architecture network related issues and programming methodology It uses real world case studies to put the information into perspective **Computer Architecture and Organization Miles J.**

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