

The First Computers

History and Architectures



edited by Raúl Rojas and Ulf Hashagen

The First Computers History And Architectures History Of Computing

Nathan Ensmenger



The First Computers History And Architectures History Of Computing:

The First Computers Raul Rojas, Ulf Hashagen, 2002-07-26 This history of computing focuses not on chronology what came first and who deserves credit for it but on the actual architectures of the first machines that made electronic computing a practical reality The book covers computers built in the United States Germany England and Japan It makes clear that similar concepts were often pursued simultaneously and that the early researchers explored many architectures beyond the von Neumann architecture that eventually became canonical The contributors include not only historians but also engineers and computer pioneers An introductory chapter describes the elements of computer architecture and explains why being first is even less interesting for computers than for other areas of technology The essays contain a remarkable amount of new material even on well known machines and several describe reconstructions of the historic machines These investigations are of more than simply historical interest for architectures designed to solve specific problems in the past may suggest new approaches to similar problems in today's machines Contributors Titiimaea F Ala ilima Lin Ping Ang William Aspray Friedrich L Bauer Andreas Brennecke Chris P Burton Martin Campbell Kelly Paul Ceruzzi I Bernard Cohen John Gustafson Wilhelm Hopmann Harry D Huskey Friedrich W Kistermann Thomas Lange Michael S Mahoney R B E Napper Seiichi Okoma Hartmut Petzold Ra l Rojas Anthony E Sale Robert W Seidel Ambros P Speiser Frank H Sumner James F Tau Jan Van der Spiegel Eiti Wada Michael R Williams

A Brief History of Computing Gerard O'Regan, 2008-02-01 Overview The objective of this book is to provide an introduction into some of the key topics in the history of computing The computing eld is a vast area and a truly comp hensive account of its history would require several volumes The aims of this book are more modest and its goals are to give the reader a avour of some of the key topics and events in the history of computing It is hoped that this will stimulate the interested reader to study the more advanced books and articles available The history of computing has its origins in the dawn of civilization Early hunter gatherer societies needed to be able to perform elementary calculations such as counting and arithmetic As societies evolved into towns and communities there was a need for more sophisticated calculations This included primitive accounting to determine the appropriate taxation to be levied as well as the development of geometry to enable buildings templates and bridges to be constructed Our account commences with the contributions of the Egyptians and Babylonians It moves on to the foundational work done by Boole and Babbage in the nineteenth century and to the important work on Boolean Logic and circuit design done by Claude Shannon in the 1930s The theoretical work done by Turing on computability is considered as well as work done by von Neumann and others on the fundamental architecture for computers

Birth of the Computer Stephen H. Kaisler, 2016-12-12 *Birth of the Computer* From Relays to Vacuum Tubes is the first in a multi volume series on historical computing machines This series will span the development of computer systems from the Zuse machines of the early 1930s to about 1995 when microprocessors began to be commoditized Each volume will focus on a range of technologies or a class of machines or a particular vendor and will describe the

hardware of the machines and its peripherals the operating system and system software and its influence upon programming languages This volume begins with the Zuse machines which were constructed from relays but contained the basic elements of a computer system namely input computing engine and output Early machines from Atanasoff and Berry Aiken Stibitz and IBM are described The transition from relays to vacuum tubes increased speed and performance significantly and led to the first true computers in ENIAC EDSAC and EDVAC which used paper tape and Williams tubes for I O and storage These machines were built by universities Several early machines were purpose built such as Colossus and BINAC and created with government support and industrial know how By the mid to late 50s computing machines were being built by universities the SSEM Whirlwind and IAS machines governments the NBS SEAC and SWAC and several other machines and industry the UNIVAC series and the English Electric DEUCE Most of these machines were constructed using the von Neumann architecture and represent an evolution of thinking in how computing machines were to operate along with some innovative ideas in software and programming languages By the end of the 1950s the design development programming and use of computing machines were in full ferment as many new ideas were proposed many different machines were designed and some were constructed Computing machines became a commercial enterprise Governments receded from building machines to levying requirements and funding construction while universities continued to explore new architectures new operating systems and new programming languages

Konrad Zuse's Early Computers Raúl Rojas, 2023-10-13 This book describes the historical development of the architectures of the first computers built by the German inventor Konrad Zuse in Berlin between 1936 and 1945 Zuse's machines are historically important because they anticipated many features of modern computers Specifically these include the separation of processor and memory the ability to compute with floating point numbers a hardware architecture based on microprogramming of the instruction set and a layered design with a high level programming language on top In fact Zuse's early computers are closer to modern computers than the Harvard Mark I or ENIAC two other contenders for the title of world's first computer The theoretical program first conceived by Zuse in 1936 37 was fulfilled with a series of machines built before and during World War II the Z1 Z2 Z3 and Z4 Separate chapters deal with the architecture of each computer culminating in the description of Plankalkül the first proposal for a high level programming language Students of the sciences and practitioners of computer science should have no trouble following the material The concise introductory summary sets the reader on the historical path to retrace this remarkable intellectual adventure

Computer Systems Architecture Aharon Yadin, 2016-08-19 Computer Systems Architecture provides IT professionals and students with the necessary understanding of computer hardware It addresses the ongoing issues related to computer hardware and discusses the solutions supplied by the industry The book describes trends in computing solutions that led to the current available infrastructures tracing the initial need for computers to recent concepts such as the Internet of Things It covers computers data representation explains how computer architecture and its underlying meaning changed

over the years and examines the implementations and performance enhancements of the central processing unit CPU. It then discusses the organization hierarchy and performance considerations of computer memory as applied by the operating system and illustrates how cache memory significantly improves performance. The author proceeds to explore the bus system algorithms for ensuring data integrity input and output I/O components methods for performing I/O various aspects relevant to software engineering and nonvolatile storage devices such as hard drives and technologies for enhancing performance and reliability. He also describes virtualization and cloud computing and the emergence of software based systems architectures. Accessible to software engineers and developers as well as students in IT disciplines, this book enhances readers' understanding of the hardware infrastructure used in software engineering projects. It enables readers to better optimize system usage by focusing on the principles used in hardware systems design and the methods for enhancing performance.

Introduction to the History of Computing Gerard O'Regan, 2016-06-21 Tracing the story of computing from Babylonian counting boards to smartphones, this inspiring textbook provides a concise overview of the key events in the history of computing together with discussion exercises to stimulate deeper investigation into this fascinating area. Features: provides chapter introductions, summaries, key topics and review questions; includes an introduction to analogue and digital computers and to the foundations of computing; examines the contributions of ancient civilisations to the field of computing; covers the first digital computers and the earliest commercial computers, mainframes and minicomputers; describes the early development of the integrated circuit and the microprocessor; reviews the emergence of home computers; discusses the creation of the Internet, the invention of the smartphone and the rise of social media; presents a short history of telecommunications, programming languages, operating systems, software engineering, artificial intelligence and databases.

A New History of Modern Computing Thomas Haigh, Paul E. Ceruzzi, 2021-09-14 How the computer became universal. Over the past fifty years, the computer has been transformed from a hulking scientific supertool and data processing workhorse, remote from the experiences of ordinary people, to a diverse family of devices that billions rely on to play games, shop, stream music and movies, communicate and count their steps. In *A New History of Modern Computing*, Thomas Haigh and Paul Ceruzzi trace these changes. A comprehensive reimagining of Ceruzzi's *A History of Modern Computing*, this new volume uses each chapter to recount one such transformation, describing how a particular community of users and producers remade the computer into something new. Haigh and Ceruzzi ground their accounts of these computing revolutions in the longer and deeper history of computing technology. They begin with the story of the 1945 ENIAC computer, which introduced the vocabulary of programs and programming, and proceed through email, pocket calculators, personal computers, the World Wide Web, videogames, smart phones, and our current world of computers everywhere in phones, cars, appliances, watches, and more. Finally, they consider the Tesla Model S as an object that simultaneously embodies many strands of computing. *A History of Computing Technology* Michael R. Williams, 1997-04-10 This second edition of the popular reference and textbook

outlines the historical developments in computing technology The book describes historical aspects of calculation and concentrates on the physical devices used to aid people in their attempts at automating the arithmetic process A History of Computing Technology highlights the major advances in arithmetic from the beginning of counting through the three most important developments in the subject the invention of the zero logarithms and the electronic computer It provides you with an understanding of how these ideas developed and why the latest tools are in their current forms In addition it tells many of the interesting stories about both the machines and the scientists who produced them It focuses on the extraordinary accomplishments of those computer pioneers whose work will stand as proof of their genius and hard work **Charles**

Babbage Institute of Computer History Newsletter ,1996 *Computer Architecture and Security* Shuangbao Paul Wang,Robert S. Ledley,2013-01-10 The first book to introduce computer architecture for security and provide the tools to implement secure computer systems This book provides the fundamentals of computer architecture for security It covers a wide range of computer hardware system software and data concepts from a security perspective It is essential for computer science and security professionals to understand both hardware and software security solutions to survive in the workplace Examination of memory CPU architecture and system implementation Discussion of computer buses and a dual port bus interface Examples cover a board spectrum of hardware and software systems Design and implementation of a patent pending secure computer system Includes the latest patent pending technologies in architecture security Placement of computers in a security fulfilled network environment Co authored by the inventor of the modern Computed Tomography CT scanner Provides website for lecture notes security tools and latest updates *The Computer Boys Take Over* Nathan Ensmenger,2010 The contentious history of the computer programmers who developed the software that made the computer revolution possible **Computer Architecture** Charles Fox,2024-05-07 Not since the 1980s has computer architecture

been so exciting This book captures the moment mining the history of computing to teach key concepts in modern hardware design and introduce the neural and quantum architectures of the future Computer Architecture is an in depth exploration of the principles and designs that have shaped computer hardware through the ages from counting devices like the abacus to Babbage s Difference Engine to modern GPUs and the frontiers of quantum computing This engaging blend of history theory hands on exercises and real world examples is sure to make for an insightful romp through a fast changing world You won t just read about computer architecture you ll also gain the understanding to touch build and program it You ll explore the basic structures of a CPU by learning to program a Victorian Analytical Engine You ll extend electronic machines to 8 bit and 16 bit retro gaming computers learning to program a Commodore 64 and an Amiga You ll delve into x86 and RISC V architectures cloud and supercomputers and ideas for future technologies You ll also learn How to represent data with different coding schemes and build digital logic gates The basics of machine and assembly language programming How pipelining out of order execution and parallelism work in context The power and promise of neural networks DNA photonics

and quantum computing Whether you re a student a professional or simply a tech enthusiast after reading this book you ll grasp the milestones of computer architecture and be able to engage directly with the technology that defines today s world Prepare to be inspired challenged and above all see and experience the digital world hands on

IA, the Journal of the Society for Industrial Archeology ,1999 The Architecture of Computer Hardware, Systems Software, and Networking Irv Englander,Wilson Wong,2021-03-31 The Architecture of Computer Hardware Systems Software and Networking is designed help students majoring in information technology IT and information systems IS understand the structure and operation of computers and computer based devices Requiring only basic computer skills this accessible textbook introduces the basic principles of system architecture and explores current technological practices and trends using clear easy to understand language Throughout the text numerous relatable examples subject specific illustrations and in depth case studies reinforce key learning points and show students how important concepts are applied in the real world This fully updated sixth edition features a wealth of new and revised content that reflects today s technological landscape Organized into five parts the book first explains the role of the computer in information systems and provides an overview of its components Subsequent sections discuss the representation of data in the computer hardware architecture and operational concepts the basics of computer networking system software and operating systems and various interconnected systems and components Students are introduced to the material using ideas already familiar to them allowing them to gradually build upon what they have learned without being overwhelmed and develop a deeper knowledge of computer architecture

A History of Modern Computing, second edition Paul E. Ceruzzi,2003-04-08 From the first digital computer to the dot com crash a story of individuals institutions and the forces that led to a series of dramatic transformations This engaging history covers modern computing from the development of the first electronic digital computer through the dot com crash The author concentrates on five key moments of transition the transformation of the computer in the late 1940s from a specialized scientific instrument to a commercial product the emergence of small systems in the late 1960s the beginning of personal computing in the 1970s the spread of networking after 1985 and in a chapter written for this edition the period 1995 2001 The new material focuses on the Microsoft antitrust suit the rise and fall of the dot coms and the advent of open source software particularly Linux Within the chronological narrative the book traces several overlapping threads the evolution of the computer s internal design the effect of economic trends and the Cold War the long term role of IBM as a player and as a target for upstart entrepreneurs the growth of software from a hidden element to a major character in the story of computing and the recurring issue of the place of information and computing in a democratic society The focus is on the United States though Europe and Japan enter the story at crucial points on computing per se rather than on applications such as artificial intelligence and on systems that were sold commercially and installed in quantities

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Computer Architecture Robert J. Baron, Lee Higbie, 1992 Computer Architecture offers an overview of a computer s key structural building blocks introducing these building blocks in terms of computer family architecture whose members maintain compatibility with prior generation hardware as new implementations are introduced

Computing Paul E. Ceruzzi, 2012-06-15 Discover the history of computing through 4 major threads of development in this compact accessible history covering punch cards Silicon Valley smartphones and much more In an accessible style computer historian Paul Ceruzzi offers a broad though detailed history of computing from the first use of the word digital in 1942 to the development of punch cards and the first general purpose computer to the internet Silicon Valley and smartphones and social networking Ceruzzi identifies 4 major threads that run throughout all of computing s technological development Digitization the coding of information computation and control in binary form The convergence of multiple streams of techniques devices and machines The steady advance of electronic technology as characterized famously by Moore s Law Human machine interface The history of computing could be told as the story of hardware and software or the story of the Internet or the story of smart hand held devices In this concise and accessible account of the invention and development of digital technology Ceruzzi offers a general and more useful perspective for students of computer science and history

World of Computer Science: M-Z Brigham Narins, 2002 Containing approximately 650 alphabetically arranged entries and 200 photographs the World of Computer Science meets the information need for a wide variety of computer studies It is a subject specific guide to pioneers discoveries theories concepts issues and ethics and gives attention to lesser known scientists minorities and women

Technology and Culture , 2001

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