9914 9 Track Tape Unit Bitsavers

The Control Data Corporation's Early SystemsStorage SystemsIn SilicoThe Univac CorporationThe Burroughs Corporation and Its Innovative ArchitectureAlternative Historiographies of the Digital HumanitiesFirst Generation MainframesIntroduction to Magnetic TapesIntroduction to Magnetic TapesDigital Magnetic Tape RecordingImplementing IBM Tape in I5/OSOperational Specifications for Magnetic Tape SubsystemsDigital Tape DrivesPerformance Characteristics of High Density Digital Magnetic Tape Recording SystemThe Design of a Buffer for Communication Between Tape Drive and Digital ComputerThe IBM 3480 Tape DriveIBM Tape Library Guide for Open SystemsMagnetic Tape Unit MTA-2IBM Tape Library Guide for Open SystemsCassette Tape Data Read/write Unit Manual Stephen H. Kaisler Alexander Thomasian Jason Sharpe Stephen H. Kaisler Stephen H. Kaisler Dorothy Kim Stephen H. Kaisler Bernard B. Bycer IBM Redbooks United States. National Bureau of Standards James E. Taunt Andrew Gabor Wilton Jeston Daniel Computer Technology Research Corp Robert Beiderbeck Bendix Corporation. Computer Division Robert Beiderbeck C. J. Johnson

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this book is the eighth volume in the historical computing machines series which aims to document the history of computing machines from the late 1930s up to about 1995 it is focused on the control data corporation s early systems which reflected the design principles espoused by seymour cray cdc developed and sold early machines as fast processors for use in scientific and engineering organizations cdc s early systems were batch oriented and minimalist in their instruction sets this volume covers the early cdc systems from the cdc 160 through the cdc 3800 in the evolution of computer architectures in the pursuit of fast computers and describes their system software their effect on programming language designs and key applications it also describes the later cdc 1700 and its successors the cyber 17 18 series of minicomputers as such this volume strives to bring together a comprehensive but not exhaustive view of the capabilities of early

cdc computer systems

storage systems organization performance coding reliability and their data processing was motivated by the 1988 redundant array of inexpensive independent disks proposal to replace large form factor mainframe disks with an array of commodity disks disk loads are balanced by striping data into strips with one strip per disk and storage reliability is enhanced via replication or erasure coding which at best dedicates k strips per stripe to tolerate k disk failures flash memories have resulted in a paradigm shift with solid state drives ssds replacing hard disk drives hdds for high performance applications raid and flash have resulted in the emergence of new storage companies namely emc netapp sandisk and purestorage and a multibillion dollar storage market key new conferences and publications are reviewed in this book the goal of the book is to expose students researchers and it professionals to the more important developments in storage systems while covering the evolution of storage technologies traditional and novel databases and novel sources of data we describe several prototypes fawn at cmu ramcloud at stanford and lightstore at mit oracle s exadata aws aurora alibaba s polardb fungible data center and author s paper designs for cloud storage namely heterogeneous disk arrays and hierarchical raid surveys storage technologies and lists sources of data measurements text audio images and video familiarizes with paradigms to improve performance caching prefetching log structured file systems and merge trees lsms describes raid organizations and analyzes their performance and reliability conserves storage via data compression deduplication compaction and secures data via encryption specifies implications of storage technologies on performance and power consumption exemplifies database parallelism for big data analytics deep learning via multicore cpus gpus fpgas and asics e g google s tensor processing units

in silico introduces maya programming into one of the most fascinating application areas of 3d graphics biological visualization in five building block tutorials this book prepares animators to work with visualization problems in cell biology the book assumes no deep knowledge of cell biology or 3d graphics programming an accompanying dvd rom includes code derived from the tutorials the working maya computer files and sample animated movies teaches artists and scientists to create realistic digital images of humans and nature with the popular cg program maya this self contained study guide includes background foundations and practice step by step example programs and end result demonstrations help readers develop their own portfolios gorgeous four color screen shots throughout

univac corporation now unisys has been an innovator in computer systems since the early 1960s univac then remington rand built the first commercial computer the univac i this volume continues the story of univac later unisys computer systems from the univac 1105 its successors the early univac 1100 machines helped to establish the concept of a family of computer systems it was one of the first to develop and deploy a multidimensional operating system that supported interactive real time and batch processing ease of access and operation in all modes was especially attractive to scientific and academic communities it was instrumental in developing cobol and dms 1100 for business data processing the upward compatibility of the univac 1100 series machines from the univac 1107 to the sperry

2200 series demonstrated how evolutionary development could protect its customer s investment while continually enhancing performance as one of the founders of the computing industry univac has survived over 60 years of expansion and consolidation to survive as part of unisys as one of the two remaining mainframe manufacturers

this book surveys the history of the burroughs corporation from its earliest days as a computer system vendor up to the late 1990s after its merger with univac corporation to form unisys the burroughs corporation was one of the earliest manufacturers of large mainframe computers through its purchase of datatron burroughs developed four more generations of mainframe computer systems culminating in the b2x00 3x00 4x00 family of machines it also developed one of the most innovative computer architectures in the b5x00 6x00 7x00 family these systems featured direct execution of high level language programs stack based and tagged architectures multiprocessing and early virtualization through descriptors burroughs early work on the illiac iv led to the development of the d825 for sage and the b8500 the former a notable success and the latter less than successful burroughs foray into small computer systems was not financially viable but its merger with univac led to the formation of unisys where its advanced architectures survive today as counterpoints to ibm s mainframe architectures the two surviving manufacturers from the mainframe era

alternative historiographies of the digital humanities examines the process of history in the narrative of the digital humanities and deconstructs its history as a straight line from the beginnings of humanities computing by discussing alternatives histories of the digital humanities that address queer gaming feminist game studies praxis cold war military industrial complex computation the creation of the environmental humanities monolingual discontent in dh the hidden history of dh in english studies radical media praxis cultural studies and dh indigenous futurities pacific rim post colonial dh the issue of scale and dh the radical indigenous feminist histories of the digital database and the possibilities for an antifascist dh this collection hopes to re set discussions of the dh straight white origin myths thus this collection hopes to reexamine the silences in such a straight and white masculinist history and how power comes into play to shape this straight white dh narrative page 4 of cover

this volume describes several different models of ibm computer systems characterized by different data representations and instruction sets that strongly influenced computer system architecture in the 1950s and early 1960s they focused on a common system architecture that allowed peripherals to be used on different systems albeit with specific adapters these systems were modular which made them easy to manufacture configure and service computing with univac they used reliable williams tubes for memory and later introduced magnetic core memory ibm developed its own magnetic tape drives and magnetic drums that were both faster and more reliable than univac s peripherals the first software systems that could reasonably be called operating systems enabled more efficient use of programmer time and system resources the development of programming languages notably fortran and assembly language processors notably autocoder improved the productivity of programmers in addition ibm developed one of the finest product

marketing sales and servicing organizations in the world the legacy of the ibm 700 series is found in their popular successors the ibm 7000 series which will be described in a forthcoming volume

this ibm redbooks publication presents a general introduction to the latest current ibm tape and tape library technologies featured tape technologies include the ibm lto ultrium and enterprise 3592 tape drives and their implementation in ibm tape libraries this 17th edition includes information about the latest ts4300 ultrium tape library ts1155 enterprise tape drive and the ibm linear tape open lto ultrium 8 tape drive along with technical information about each ibm tape product for open systems it includes generalized sections about small computer system interface scsi and fibre channel connections and multipath architecture configurations this book also covers tools and techniques for library management it is intended for anyone who wants to understand more about ibm tape products and their implementation it is suitable for ibm clients ibm business partners ibm specialist sales representatives and technical specialists if you do not have a background in computer tape storage products you might need to read other sources of information in the interest of being concise topics that are generally understood are not covered in detail

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