

WHEN COMPUTERS WENT TO SEA

*The Digitization
of the United States Navy*

David L. Boslaugh



THE
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When Computers Went To Sea The Digitization Of The United States Navy

James A Treadway



When Computers Went To Sea The Digitization Of The United States Navy:

When Computers Went to Sea David L. Boslaugh, 2003-04-16 *When Computers Went to Sea* explores the history of the United States Navy's secret development of code breaking computers and their adaptation to solve a critical fleet radar data handling problem in the Navy's first seaborne digital computer system that went to sea in 1962. This is the only book written on the United States Navy's initial application of shipboard digital computers to naval warfare. Considered one of the most successful projects ever undertaken by the US Navy, the Naval Tactical Data System (NTDS) was the subject of numerous studies attempting to pinpoint the reason for the system's inordinate success in the face of seemingly impossible technical challenges and stiff resistance from some in the military. The system's success precipitated a digital revolution in naval warfare systems. Dave Boslaugh details the innovations developed by the NTDS project managers including project management techniques, modular digital hardware for ship systems, top down modular computer programming techniques, innovative computer program documentation, and other novel real time computer system concepts. Automated military systems, users and developers, real time process control systems, designers, automated system project managers, and digital technology history students will find this account of a United States military organization's initial foray into computerization interesting and thought provoking. *History of Acquisition in the Department of Defense, Volume 1* Elliott V.

Converse, 2012-06-12 This volume is a history of the acquisition of major weapon systems by the United States armed forces from 1945 to 1960, the decade and a half that spanned the Truman and Eisenhower administrations following World War II. These instruments of warfare, aircraft, armored vehicles, artillery, guided missiles, naval vessels, and supporting electronic systems, when combined with nuclear warheads, gave the postwar American military unprecedented deterrent and striking power. They were also enormously expensive. The volume is organized chronologically with individual chapters addressing the roles of OSD, the Army, Navy, and Air Force in two distinct periods. The first, roughly coinciding with President Truman's tenure, covers the years from the end of World War II through the end of the Korean War in 1953. The second spans the two terms of the Eisenhower presidency from 1953 through early 1961. The year 1953 marked a natural breakpoint between the two periods. The Korean War had ended, President Eisenhower and his defense team began implementing the New Look, a policy and strategy based on nuclear weapons which they believed would provide security and make it possible to reduce military spending. The New Look's stress on nuclear weapons, along with the deployment of the first operational guided missiles and the rapid advances subsequently made in nuclear and missile technology, profoundly influenced acquisition in the services throughout the 1950s and the remainder of the century. As used in this study, the term acquisition encompasses the activities by which the United States obtains weapons and other equipment. In surveying the history of acquisition between 1945 and 1960, this study discusses or refers in passing to many of the hundreds of weapon system programs initiated by the services in that period, but it is not a weapons encyclopedia. Instead, it investigates a few major programs in

depth in the belief that such detailed examination best reveals the evolution of acquisition policies organizations and processes and the various forces influencing weapons programs *Rearming for the Cold War, 1945-1960* Elliott Vanveltner Converse,2012 Book Description The first publication in a multivolume series on the history of the acquisition of major weapon systems by the Department of Defense author Elliott Converse presents a meticulously researched overview of changes in acquisition policies organizations and processes within the United States military establishment during the decade and a half following World War II Many of the changes that shaped the nature and course of weapons research and development production and contracting through the end of the century were instituted between 1945 and 1960 many of the problems that have repeatedly challenged defense policymakers and acquisition professionals also first surfaced during these years This study is the first to combine the histories of the Office of the Secretary of Defense OSD and the military services into one account The volume is organized chronologically with individual chapters addressing the roles of OSD the Army Navy and Air Force in two distinct periods [The Origins of Aegis](#) Thomas Wildenberg,2024-05-15 This book provides readers with an in depth understanding of the professional development of two notable and highly accomplished naval officers and their contributions to the development of the Aegis Weapons System The main argument is that there was no single career path or set of formal qualifications for achieving excellence in the naval profession as characterized by selection for Flag rank One of the major points is the revelation that a combination of essential personal traits and qualities and important operational and technical experiences fundamental to the nature of naval warfare are critical to developing highly competent and confident officers Such officers are needed to lead major acquisition programs capable of delivering innovative weapons systems for a twenty first t century Navy facing new age threats [The Digital Hand, Vol 3](#) James W. Cortada,2008 In The third volume of The Digital Hand James W Cortada completes his sweeping survey of the effect of computers on American industry turning finally to the public sector and examining how computers have fundamentally changed the nature of work in government and education This book goes far beyond generalizations about the Information Age to the specifics of how industries have functioned now function and will function in the years to come Cortada combines detailed analysis with narrative history to provide a broad overview of computings and telecommunications role in the entire public sector including federal state and local governments and in K 12 and higher education Beginning in 1950 when commercial applications of digital technology began to appear Cortada examines the unique ways different public sector industries adopted new technologies showcasing the manner in which their innovative applications influenced other industries as well as the U S economy as a whole He builds on the surveys presented in the first volume of the series which examined sixteen manufacturing process transportation wholesale and retail industries and the second volume which examined over a dozen financial telecommunications media and entertainment industries With this third volume The Digital Hand trilogy is complete and forms the most comprehensive and rigorously researched history of computing in business since

1950 providing a detailed picture of what the infrastructure of the Information Age really looks like and how we got there Managers historians economists and those working in the public sector will appreciate Cortada s analysis of digital technology s many roles and future possibilities Military Communications Christopher H. Sterling,2007-10-16 An alphabetically organized encyclopedia that provides both a history of military communications and an assessment of current methods and applications Military Communications From Ancient Times to the 21st Century is the first comprehensive reference work on the applications of communications technology to military tactics and strategy a field that is just now coming into its own as a focus of historical study Ranging from ancient times to the war in Iraq it offers over 300 alphabetically organized entries covering many methods and modes of transmitting communication through the centuries as well as key personalities organizations strategic applications and more Military Communications includes examples from armed forces around the world with a focus on the United States where many of the most dramatic advances in communications technology and techniques were realized A number of entries focus on specific battles where communications superiority helped turn the tide including Tsushima 1905 Tannenberg and the Marne both 1914 Jutland 1916 and Midway 1942 The book also addresses a range of related topics such as codebreaking propaganda and the development of civilian telecommunications Computers and Commerce Arthur Lawrence Norberg,2005 Both ERA and EMCC had their roots in World War II and in postwar years both firms received major funding from the United States government Norberg analyzes the interaction between the two companies and the government and examines the impact of this institutional context on technological innovation He looks at the two firms operations after 1951 as independent subsidiaries of Remington Rand and documents the management problems that began after Remington Rand merged with Sperry Gyroscope to form Sperry Rand in 1955 Jacket **Learning War** Trent Hone,2018-06-15 Learning War examines the U S Navy s doctrinal development from 1898 1945 and explains why the Navy in that era was so successful as an organization at fostering innovation A revolutionary study of one of history s greatest success stories this book draws profoundly important conclusions that give new insight not only into how the Navy succeeded in becoming the best naval force in the world but also into how modern organizations can exploit today s rapid technological and social changes in their pursuit of success Trent Hone argues that the Navy created a sophisticated learning system in the early years of the twentieth century that led to repeated innovations in the development of surface warfare tactics and doctrine The conditions that allowed these innovations to emerge are analyzed through a consideration of the Navy as a complex adaptive system Learning War is the first major work to apply this complex learning approach to military history This approach permits a richer understanding of the mechanisms that enable human organizations to evolve innovate and learn and it offers new insights into the history of the United States Navy **Encyclopedia of War and American Society** Peter Karsten,2006 Publisher description **Spy Planes, Intruders, and Wild Weasels** Thomas Wildenberg,2025-10-28 Spy Planes Intruders

and Wild Weasels examines the emergence of electronic warfare and SEAD as critical components of air strategy during the Vietnam War Utilizing declassified documents and firsthand accounts Thomas Wildenberg provides a scholarly analysis of technological innovation operational adaptation and interagency coordination in the evolution of modern aerial warfare The air war over Vietnam often termed the first high tech air war was the first to feature electronic warfare EW in a decisive role EW served not only as a means of defeating the surface to air missile which was also used extensively for the first time during this conflict but also as a way to improve the offensive and defensive capabilities of U S fighters in air combat Spy Planes Intruders and Wild Weasels provides a comprehensive account of this heretofore neglected aspect of air combat history Thomas Wildenberg draws from a wealth of declassified CIA and NSA documents as well as compelling accounts from veterans and technical experts to describe the tactics innovations and impacts of electronic warfare in air combat in Vietnam From the wide scale use of airborne jamming to the creation of aircraft like the EA 6B the first aircraft designed specifically for electronic warfare this definitive work illustrates the importance of EW in the history of the Vietnam War and the development of modern electronic warfare The author traces the impact of EW technologies through key phases of the war including Rolling Thunder Linebacker I and Linebacker II As the war progressed so did the sophistication of electronic warfare techniques It was the first conflict in which the suppression of enemy air defenses and the aircraft dedicated for this purpose called Wild Weasels became a major component of operational planning and use The book analyzes how U S forces adapted with advanced aircraft and equipment to counter North Vietnam s increasingly sophisticated air defenses Drawing from primary sources the author offers a clear analysis of how electronic warfare changed military tactics intelligence operations and the future of conflict

Silent Strategists Manley R. Irwin, 2013-09-03 Few historians have looked beyond the Teapot Dome scandal and examined the naval policies of President Warren Harding and his secretary of navy Edwin Denby Both sponsored policies that nourished the nation s industrial infrastructure Their legacy would yield a dividend of growth production employment and ultimately national security In this revised edition Professor Manley R Irwin brings forth an innovative approach to researching these policies papers and archives adding additional research from new documents which expand enhance and complement the first edition The book argues that Harding and Denby exercised unusual foresight in preparing the navy for a war against Japan Both individuals promulgated structural changes in the department and adopted a set of management tools that would redound to the navy in its prosecution of its Pacific offensive in World War II Irwin s thorough investigation and addition of new evidence from original documents provides invaluable details and insights into the lasting legacy of the Harding administration

[A Companion to American Military History](#) James C. Bradford, 2009-11-03 With more than 60 essays A Companion to American Military History presents a comprehensive analysis of the historiography of United States military history from the colonial era to the present Covers the entire spectrum of US history from the Indian and imperial conflicts of the seventeenth century to the battles in Afghanistan and Iraq Features an

unprecedented breadth of coverage from eminent military historians and emerging scholars including little studied topics such as the military and music military ethics care of the dead and sports Surveys and evaluates the best scholarship on every important era and topic Summarizes current debates and identifies areas where conflicting interpretations are in need of further study *Governing the Future* Henning Glaser, Pindar Wong, 2025-02-28 We are living in times of deep and disruptive change Perhaps the most powerful vector of this change can be described by three related catchphrases digitalization artificial intelligence and dataism Drawing on considerable expertise from a wide range of scholars and practitioners this interdisciplinary collection addresses the challenges impacts opportunities and regulation of this civilizational transformation from a variety of angles including technology philosophy cultural studies international law sociology and economics This book will be of special interest to scholars students analysts policy planners and decision makers in think tanks international organizations and state agencies studying and dealing with the development and governance of disruptive technologies **Hard Charger!** James A Treadway, 2005-07 Hard Charger is the story of a Cold War cruiser the USS Biddle DLG 34 the last Navy cruiser powered by conventional steam the last of the single ended guided missile frigates the last ship of her class but the first on the front lines Biddle's story is traced from when her combat systems were conceived soon after the end of World War II and then designed and built during the 50s and 60s to her construction commission shakedown combat assignments in Vietnam her battle at PIRAZ overhauls upgrades training exercises and cruises to the North Atlantic and Mediterranean and finally her decommissioning The story is told by the officers and men who served aboard her captains and deckhands technicians and engineering officers chiefs petty officers plankowners and her decommissioning crew Though Biddle is gone her remarkable story remains as does the freedom she helped protect Historians those currently involved with Navy combat systems and those who served aboard a similar ship or during the Cold War will find Biddle's story interesting and thought provoking Hard Charger is the only book written about Biddle or any Belknap class cruiser HCI Remixed Thomas Erickson, David W. McDonald, 2007-12-21 Personal and reflective essays that describe how particular works whether papers books or demos from classics to forgotten gems have influenced each writer's approach to HCI Over almost three decades the field of human computer interaction HCI has produced a rich and varied literature Although the focus of attention today is naturally on new work older contributions that played a role in shaping the trajectory and character of the field have much to tell us The contributors to HCI Remixed were asked to reflect on a single work at least ten years old that influenced their approach to HCI The result is this collection of fifty one short engaging and idiosyncratic essays reflections on a range of works in a variety of forms that chart the emergence of a new field An article a demo a book any of these can solve a problem demonstrate the usefulness of a new method or prompt a shift in perspective HCI Remixed offers us glimpses of how this comes about The contributors consider such HCI classics as Sutherland's Sketchpad Englebart's demo of NLS and Fitts on Fitts Law and such forgotten gems as Pulfer's NRC Music Machine and

Galloway and Rabinowitz's *Hole in Space* Others reflect on works somewhere in between classic and forgotten Kidd's *The Marks Are on the Knowledge Worker King Beach's* *Becoming a Bartender* and others Some contributors turn to works in neighboring disciplines Henry Dreyfuss's book on industrial design for example and some range farther afield to Lovelock's Gaia hypothesis and Jane Jacobs's *The Death and Life of Great American Cities* Taken together the essays offer an accessible lively and engaging introduction to HCI research that reflects the diversity of the field's beginnings

Chronological Developments of Wireless Radio Systems before World War II Vinayak Laxman Patil, 2021-02-15 This comprehensive and authoritative volume traces the history of research leading to the development of the wireless radio systems It discusses the methods adopted by a large number of inventors and the results they obtained to provide perspective on how historical methods and events can be a source of inspiration for future research This book will be of interest to researchers and students in telecommunications engineering as well as to teachers of history of science and technology

Information Technology and Military Power Jon R. Lindsay, 2020-07-15 Militaries with state of the art information technology sometimes bog down in confusing conflicts To understand why it is important to understand the micro foundations of military power in the information age and this is exactly what Jon R Lindsay's *Information Technology and Military Power* gives us As Lindsay shows digital systems now mediate almost every effort to gather store display analyze and communicate information in military organizations He highlights how personnel now struggle with their own information systems as much as with the enemy Throughout this foray into networked technology in military operations we see how information practice the ways in which practitioners use technology in actual operations shapes the effectiveness of military performance The quality of information practice depends on the interaction between strategic problems and organizational solutions *Information Technology and Military Power* explores information practice through a series of detailed historical cases and ethnographic studies of military organizations at war Lindsay explains why the US military despite all its technological advantages has struggled for so long in unconventional conflicts against weaker adversaries This same perspective suggests that the US retains important advantages against advanced competitors like China that are less prepared to cope with the complexity of information systems in wartime Lindsay argues convincingly that a better understanding of how personnel actually use technology can inform the design of command and control improve the net assessment of military power and promote reforms to improve military performance Warfighting problems and technical solutions keep on changing but information practice is always stuck in between

Bridging the Seas Larrie D. Ferreiro, 2020-01-21 How the introduction of steam iron and steel required new rules and new ways of thinking for the design and building of ships In the 1800s shipbuilding moved from sail and wood to steam iron and steel The competitive pressure to achieve more predictable ocean transportation drove the industrialization of shipbuilding as shipowners demanded ships that enabled tighter scheduling improved performance and safe delivery of cargoes In *Bridging the Seas* naval historian Larrie Ferreiro describes this transformation of shipbuilding

portraying the rise of a professionalized naval architecture as an integral part of the Industrial Age Picking up where his earlier book *Ships and Science* left off Ferreiro explains that the introduction of steam iron and steel required new rules and new ways of thinking for designing and building ships The characteristics of performance had to be first measured then theorized Ship theory led to the development of quantifiable standards that would ensure the safety and quality required by industry and governments and this in turn led to the professionalization of naval architecture as an engineering discipline Ferreiro describes among other things the technologies that allowed greater predictability in ship performance theoretical developments in naval architecture regarding motion speed and power propellers maneuvering and structural design the integration of theory into ship design and construction and the emergence of a laboratory infrastructure for research

Digital State Thomas J. Misa, 2013-10-01 Accounts of the early events of the computing industry the Turing machine the massive Colossus the ENIAC computer are well told tales and equally well known is the later emergence of Silicon Valley and the rise of the personal computer Yet there is an extraordinary untold middle history with deep roots in Minnesota From the end of World War II through the 1970s Minnesota was home to the first computing centered industrial district in the world Drawing on rare archival documents photographs and a wealth of oral histories *Digital State* unveils the remarkable story of computer development in the heartland after World War II These decades found corporations concentrated in large part in Minnesota designing state of the art mainframe technologies revolutionizing new methods of magnetic data storage and for the first time truly integrating software and hardware into valuable products for the American government and public Minnesota based companies such as Engineering Research Associates Univac Control Data Cray Research Honeywell and IBM Rochester were major international players and together formed an unrivaled epicenter advancing digital technologies These companies not only brought vibrant economic growth to Minnesota they nurtured the state's present day medical device and software industries and possibly even tomorrow's nanotechnology Thomas J Misa's groundbreaking history shows how Minnesota recognized and embraced the coming information age through its leading edge companies its workforce and its prominent institutions *Digital State* reveals the inner workings of the birth of the digital age in Minnesota and what we can learn from this era of sustained innovation

AN/FSQ-7: the computer that shaped the Cold War Bernd Ulmann, 2014-08-19 Das Buch widmet sich AN/FSQ 7 einem der aussergewöhnlichsten und einflussreichsten Digitalrechner aller Zeiten ber den erst in den letzten Jahren aufgrund von Geheimhaltungsvorschriften detaillierte Informationen zugänglich wurden ber einen Zeitraum von über 30 Jahren wurden in den USA 23 Rechenzentren auf Basis von jeweils zwei AN/FSQ 7 betrieben die das Herz von SAGE dem Semi Automatic Ground Environment bildeten das für die Luftraumüberwachung der USA und in Teilen Kanada zuständig war

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