Guide to the G. Edward Bryan collection on the CP-6 system

Creator: G. Edward Bryan
Dates: 1955-2002, bulk 1965-1992
Extent: 60.84 linear feet, 45 record cartons, 4 manuscript boxes, 2 oversize boxes
Collection number: X2901.2005
Catalog number: 102733957
Collection processed by: Bo Doub and Kim Hayden, 2015
Finding aid prepared by: Bo Doub, Kim Hayden, and Sara Chabino Lott, 2015
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Abstract
The G. Edward Bryan collection on the CP-6 system contains material on the Honeywell CP-6 operating system and the team that built it at the Los Angeles Development Center (LADC). In an effort to attract Xerox CP-V users to Honeywell machines, the LADC was established in 1976 to develop CP-V's backward-compatible successor, CP-6. The LADC team was a hybrid of Xerox programmers and Honeywell management, with Bryan as its director. The collection holds LADC's administrative records, publications, presentation materials, and records relating to the development and releases of CP-6. The collection spans 1955 to 2002. The LADC and CP-6 parts of the collection span 1973 through 2002, but are primarily from 1976 when the project began until 1992 when support for CP-6 was transferred to ACTC Technologies.

Administrative Information

Access Restrictions
Materials in boxes 1 and 8 contain social security numbers. Researchers must use redacted photocopies of this restricted material for research. Otherwise, the collection is open for research.

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Languages
The collection is almost entirely in English. There is a small amount of material in Swedish, Japanese, German, and French.

Preferred Citation
[Identification of Item], [Date], G. Edward Bryan collection on the CP-6 system, Lot X2901.2005, Box [#], Folder [#], Catalog [#], Computer History Museum.

Immediate Source of Acquisition
Gift of G. Edward Bryan, 2004.

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Biographical/Historical Note
G. Edward Bryan received his BS in electrical engineering from Caltech in 1954 and an MS-level certificate in communications from Bell Telephone Laboratories in 1957. He worked in system design and engineering at Bell from 1954 to 1960, then worked at the RAND Corporation's Computer Sciences Department (also known as the RAND Computation Center) until 1967, where he was on the design team that developed the JOSS-II time-sharing programming language.

After RAND, Bryan worked at Scientific Data Systems (SDS) as the manager of operating systems development. SDS was acquired by Xerox and renamed Xerox Data Systems (XDS) in 1969; Bryan continued to work there as a computer scientist on the programming development team that worked on the CP-V operating system for Xerox's Sigma system of computers. CP-V was released in 1973, but by 1975, Xerox decided to leave the computer business and

Honeywell Inc. acquired XDS and around 60 programmers from the CP-V development team, including Bryan, in 1976.

Honeywell also acquired Xerox's Sigma user base and pledged to continue supporting the Sigma line as they developed an updated and improved version of CP-V that would be nearly identical to the Sigma operating system but operational only on Honeywell machines. They called this operating system CP-6, and it would allow Xerox customers to migrate from their Sigma computers to Honeywell's own computers with relative ease. CP-6 could be used with Honeywell's Level 66, DPS 8, DPS 8000, and DPS 90.

Honeywell opened the Los Angeles Development Center (LADC) in 1976 as the center of operations for CP-6 development. As an LADC director, Bryan oversaw the programmers who would create CP-6 in just three years, a development rate that Bryan noted was twice as fast with half the errors as comparable software projects. CP-6 was designed using the programming language PL-6, which was developed by LADC specifically for the project. The first Sigma customer to implement CP-6 was Carleton University in Ottawa, Ontario, in 1979, and eventually they gained more than 70 CP-6 customers.

In 1987, Honeywell, NEC (Nippon Electric Company), and Groupe Bull merged to create Honeywell Bull. The new company decided to refocus its efforts and phase out the development of CP-6. Honeywell Bull was consolidated into Groupe Bull in 1988 and the name was changed to Bull HN in 1989.

That same year, it was announced that LADC would be closing and support for CP-6 would move to the Canadian company ACTC Technologies Inc., which was partially owned by Bull. Before the shutdown, Bryan considered and proposed several alternatives that would save LADC, such as transforming it into a business independent of Bull and proposing the acquisition of LADC and its staff to several companies. Ultimately, Bull decided to keep LADC open during the transition of CP-6 support to ACTC, retaining essential staff and laying off others. Ten to 12 programmers, including Bryan, stayed on under a two-year contract to train the ACTC staff in the support and maintenance of CP-6 from 1990 to 1992.

Before the LADC contracts ended, Bryan sent letters and resumes to other companies in an attempt to keep his CP-6 team together, or at the very least employed. In December of 1992, LADC closed for good and the staff that did not continue to contract with ACTC were laid off. Bryan took an early retirement from Bull. CP-6 remained in operation and supported by ACTC until 2005, when the last system was shut down at Carleton University, the first site to implement it. Bryan died July 9, 2014.

Scope and Content of the Collection

The G. Edward Bryan collection on the CP-6 system contains material on the Honeywell CP-6 operating system and the team that built it at the Los Angeles Development Center (LADC). The LADC was established in 1976 to develop a CP-V backward compatible successor, the CP-6, to attract Xerox CP-V users to Honeywell machines. The LADC team was a hybrid of Xerox programmers and Honeywell management, with Bryan as its director.

The "Honeywell CP-6 project" series is primarily made up of records created at the LADC starting in 1976 when the project began until 1992 when support for CP-6 was transferred to ACTC Technologies in Canada. LADC administrative records and materials relating to the development and releases of CP-6 make up the bulk of this series, which also includes

publications, and presentation materials. Collection highlights in the LADC administrative records include Bryan's notebooks, calendars, and dayplanners and various forms of original artwork from LADC employees that document the frustration that many LADC members felt over the Honeywell-Bull merger and the end of CP-6. Also included in the "Honeywell CP-6 project" series are promotional material, press, manuals, and conference and presentation materials.

The non-CP-6 series in the collection contain Honeywell administrative records and publications related to other projects and products. A significant portion of the collection includes materials created at Scientific Data Systems (SDS) and Xerox Data Systems (XDS) documenting the Universal Time-Sharing System (UTS) and CP-V – both of which were the main predecessors to Honeywell's CP-6 system in terms of architecture and user base. One other company where Bryan worked that is prevalent in the collection is the RAND Corporation. The materials from RAND are primarily from the 1960s and focus on the JOHNNIAC computer and JOSS programming language. Other companies and publications represented in the non-CP-6 series include IBM, and to a lesser extent, the Control Data Corporation (CDC), Philco, General Electric (GE), Digital Equipment Corporation (DEC), and several volumes of the Communications of the Association for Computing Machinery (ACM).

Arrangement

The collection is arranged into 6 series:

Series 1, Honeywell CP-6 project, 1973-2002, bulk 1976-1992
Series 2, Non-CP-6 Honeywell, 1974-1992
Series 3, SDS and XDS records, 1964-1983
Series 4, RAND Corporation records, 1955-2001, bulk 1960-1969
Series 5, IBM records, 1956-1965
Series 6, Other companies and publications, 1956-1993

Indexing Terms

Bryan, George Edward, d. 2014
CP-V
CP-6
Honeywell Inc.
International Business Machines Corporation
JOHNNIAC computer
Operating systems (Computers)
Rand Corporation
Scientific Data Systems
Xerox Corporation

Separated Material

Non-text items were separated from the main collection. These include packaged software, circuit boards, audiotapes, videotapes, slides, photographs, framed images, plaques, posters, buttons, mugs and a mug warmer, paperweights, a Honeywell post-it holder, a T-shirt, a tie and tie clip, lapel pins, a keychain, a matchbox, a scarf, a pennant with buttons attached, and an LADC pewter tankard. To view catalog records for separated items go to the CHM website at http://archive.computerhistory.org/search.

Related Collections at CHM

Keith G. Calkins collection on Sigma systems, Lot X4287.2008.

Collection Contents

Series 1, Honeywell CP-6 project, 1973-2002, bulk 1976-1992

This series contains records related to the development, promotion, and demise of Honeywell Inc.'s CP-6 operating system and the Los Angeles Development Center (LADC), the division that developed it. This series is arranged into 5 subseries:

Subseries 1.1, LADC administrative records, 1973-1992, bulk 1975-1992
Subseries 1.2, CP-6 development records, 1975-2002, bulk 1976-1992
Subseries 1.3, Promotional material and press, 1977-1990
Subseries 1.4, Manuals, 1977-1992
Subseries 1.5, Conference and presentation materials, 1976-1992

Subseries 1.1, LADC administrative records, 1973-1992, bulk 1975-1992

This subseries contains material that documents the management of the Los Angeles Development Center (LADC), including its organizational structure, personnel, building facilities, business planning, marketing, and clients, from its inception to its closing. Material dates from 1973 to 1992, the bulk of which is from 1975 to 1992. Included are personnel records, company procedures, training materials, and compensation reports; business planning records, finances, budgets, and annual reports; presentations, correspondence, notes, and reports related to current and prospective clients; contracts and agreements; promotional material, logos, and other branding; Bryan's notebooks, calendars, and day planners; and original artwork in the form of drawings, stories, and office humor that demonstrates the frustration LADC employees felt over the merger between Honeywell and Bull and the end of CP-6. That merger and the subsequent discontinuation of support for CP-6, layoffs, and final shutdown of LADC are well represented in this subseries and include planning records, proposals to other companies to acquire LADC or its staff, job search resources, layoff records, a proposal to make LADC a business independent from Bull, and material that documents the transition of CP-6 and LADC staff to ACTC Technologies Inc. This subseries is arranged chronologically.

Subseries 1.2, CP-6 development records, 1975-2002, bulk 1976-1992

This subseries contains records regarding the planning, development, and releases of the Honeywell CP-6 operating system. Much of this subseries is organized by each version or release of CP-6, with design reviews from the CP-6 Review Board for each release along with administrative correspondence, status reports, risk evaluations, presentation materials, concept designs, and specifications. The records relating to the initial release of CP-6, also called version A01, span from 1976 to 1979. The subsequent CP-6 releases documented in this subseries, along with the years covered in their corresponding records, proceed as: version B00 through B03 (Release 2), 1979 to 1983; version C00 (Release 3), 1980 to 1986; versions D00, E00, and E01, 1987 to 1990; and versions AR 1.0 through AR 3.0, 1990 to 1992. Also included in this subseries are records relating to CP-6 performance and specifications, user support data, market strategies and analyses defining new market segments for selling CP-6, technical features of CP-6 and its supporting software, management of software development and distribution, business plans, and papers authored by Bryan. Of particular interest are materials relating to CP-V to CP-6 migration spanning 1976 through 1981. These folders include papers and memoranda relating to "Project Phoenix: A Migration Strategy for the Xerox CP-V Base" and correspondence between Xerox clients and Bryan about migrating to Honeywell's CP-6 system. This subseries contains a small amount of CP-6-specific documents created by members of HLSUA (Honeywell Large Systems Users

Association) and the Exchange Xerox Computer Users' Group, which include background documentation, product updates, technical papers, and board meetings surrounding CP-6 research and development. This subseries is arranged chronologically.

Subseries 1.3, Promotional material and press, 1977-1990
This subseries consists of newspaper and magazine clippings, Honeywell internal marketing communications, press releases, and brochures related to CP-6 from 1977 to 1990, and CP-6's first print advertisement from 1981. Honeywell internal marketing communications include CP-6-specific newsletters and other Honeywell, Bull, and LADC newsletters that mention the system, including a large number of copies of Honeywell's Printout newsletter. The brochures provide overviews of CP-6 and the Honeywell DPS 8, which used CP-6 as its operating system. This subseries is arranged alphabetically by folder title.

Subseries 1.4, Manuals, 1977-1992
This subseries is made up of CP-6 and DPS 8 manuals, and lists of available manuals, from 1977 to 1992. Included are installation, reference, and maintenance guides for setting up CP-6, using it with various applications, programming for it, and maintaining it. The 1990 DPS 8 manual consists of installation bulletins that provide instructions on setting up CP-6 on the computer system. Also included are a number of Carleton University Computing Services manuals for their machines that ran CP-6. Carleton was the first and last site to use CP-6. This subseries is arranged alphabetically by folder title.

Subseries 1.5, Conference and presentation materials, 1976-1992
This subseries contains presentation and conference materials related to CP-6 from 1976 to 1992. Almost half of this subseries is made up of presentations that provide an overview of or status report on CP-6 that were given by LADC staff to CP-6 stakeholders, including Honeywell and Bull executives. There are several folders containing notes and material for a presentation given by LADC to Bull HN CEO Roland Pampel at the time that Bull acquired Honeywell's computer division, around 1988 and 1989. About a third of this subseries consists of presentations about CP-6 that members of LADC gave at HLSUA (Honeywell Large Systems Users Association) and Xerox User Group and CP-6 Users Exchange meetings. Also included is material related to those conferences, such as notes, programs, and itineraries. A smaller portion of this subseries contains presentations given at conferences and seminars that were specific to CP-6, such as the CP-6 Educational Users Conference, and an even smaller portion includes presentations about CP-6 given at the Bull Users Society. There is a very small amount of material related to other industry conferences, such as InterXchange, and photographic slides of presentations. This subseries is arranged chronologically.

Series 2, Non-CP-6 Honeywell, 1974-1992
This series contains records related to Honeywell Inc. and its post-merger incarnations as Honeywell Bull and Bull HN, dating from 1974 to 1992. These records are not related to CP-6, but instead focus on Honeywell and Bull administrative matters, projects, products, promotions, and conferences. Materials include HLSUA (Honeywell Large Systems Users Association) and Honeywell Bull Users Meeting proceedings, organizational records, correspondence, clippings, press releases, periodicals, manuals, promotional materials, product price lists, and catalogs. The material documents the mergers and day-to-day operations and marketing of these companies. This series is arranged alphabetically by folder title.

Series 3, SDS and XDS records, 1964-1983
This series contains publications, correspondence, and administrative records created at Scientific Data Systems (SDS), and, subsequent to Xerox Corporation's acquisition of SDS, Xerox Data Systems (XDS). In terms of specific products, the systems that are most well-documented in this series are the Universal Time-Sharing System (UTS) and CP-V. Both of these operating systems were initially developed for the Sigma series of computers and both were the main predecessors to Honeywell's CP-6 system, which was backward-compatible with CP-V, but rewritten for Honeywell hardware. Another large part of this series is made up of Exchange proceedings. Exchange started as the Xerox computer users' group, but it still operated and held conferences after Xerox sold its SDS/XDS/Xerox computer business to Honeywell in 1975 and many of the proceedings in this series follow that date. Also included in this series are SDS and XDS promotional material, press, sales documents, product descriptions and specifications, manuals, personnel records, market analyses, correspondence with clients, annual reports, periodicals, and newsletters. This series is arranged chronologically.

Series 4, RAND Corporation records, 1955-2001, bulk 1960-1969
This series consists of technical papers, manuals, design drawings, program listings, and correspondence about RAND projects and technologies. The bulk of this series relates to the JOHNNIAC computer (John v. Neumann Numerical Integrator and Automatic Computer) and JOSS (JOHNNIAC Open Shop System), one of the first interactive, time-sharing programming languages, which was initially developed by J. Clifford Shaw at RAND and first implemented on the JOHNNIAC computer in 1963. Other RAND projects covered in this series include ALMOST, a calculating computer; SMILE, a program developed by Morton I. Bernstein and Bryan for the JOHNNIAC computer; and SMAC (for 'SMAll Compiler'), a system for stating problems for numerical solution on the JOHNNIAC. More recent parts of this series include materials relating to the design of a JOHNNIAC simulator that was due for completion in the late 1990s and a 1998 public lecture at the Computer History Museum about the JOHNNIAC computer. This series is arranged chronologically.

Series 5, IBM records, 1956-1965
This series contains manuals, correspondence, and technical papers about IBM systems and computers. IBM products documented in this series include IBM 7040/7044 computers and IBM 1050 computers. Also included are manuals and correspondence published by other companies, but related to IBM products, such as two manuals published by Aerojet-General Corporation for programs used on IBM computers. Other materials of this kind include memoranda and program descriptions published by Bell Telephone Laboratories about programming for the IBM 704. Lastly, this series contains administrative records, correspondence, meeting minutes, and proceedings from SHARE, the volunteer-run user group initially centered on IBM mainframe computers. The SHARE Operating System (SOS), which SHARE created and first ran on the IBM 709, makes up a large part of these records. This series is arranged alphabetically by folder title.

Series 6, Other companies and publications, 1956-1994
This series consists of records about or produced by companies and organizations other than those with separate series in this collection. About half of this series is made up of computing manuals, specifications, promotional material, and documentation published by companies such as Control Data Corporation (CDC), Philco, General Electric, Digital Equipment Corporation (DEC), Burroughs, Bell Laboratories, Computer Control Company, Bendix, and Telefile. Philco manuals and CDC manuals and brochures make up about a third of these. Also included are

several volumes of the Communications of the Association for Computing Machinery (ACM). Additionally, there are small quantities of announcements, attendee lists, agendas, and papers from conferences such as the ACM Storage Allocation Symposium, IEEE workshops, and a TCP/IP seminar. The smallest portion of this series includes a handbook for the Rechen-zentrum Trebur GMBH (Computer Centre Trebur) that is in German and English, and board meeting minutes, bylaws, and a shareholders agreement for International Meta Systems Inc., a software company Bryan was vice president of from 1987 to 1988. This series is arranged alphabetically by folder title.

	Catalog Number	Title	Date
		Folder List	
		Honeywell CP-6 project: LADC administrative records	
Box 1; 2; 3	102734536	Clients	1973-1992
Box 1	102734609	Organizational structure and human resources [RESTRICTED]	1973-1992
Box 11; 12	102734616	Bryan's calendars, and dayplanners	1974-1992
Box 13	102707066	Oversize Artwork	1975-1988
Box 3; 4	102734602	Business planning	1975-1992
Box 4	102734580	Office humor, drawings, and invitations	1976-1986
Box 4	102734593	Interoffice correspondence	1976-1989
Box 10	102734615	Bryan's notebooks	1976-1990
Box 5; 6	102734579	Procedures and employee training	1977-1989
Box 4	102734581	Administrative reports	1977-1992
Box 4; 5	102734585	Finances	1977-1992
Box 6; 7	102734584	Facilities	1978-1992
Box 6	102734578	Branding and design	ca. 1978-1986
Box 13	102707067	CP-6 Poster	ca. 1980
Box 7	102734607	Bryan's compensation and retirement records	1985-1992
Box 7	102734592	Contracts and agreements	1985-1992
Box 7	102734610	Engineering Applied Reporting System (EARS) reports	1987-1992
Box 8	102734591	Shutdown planning, transitions, and layoffs [RESTRICTED]	1988-1992
Box 8	102734606	Transition to ACTC Technologies Inc.	1988-1992
Box 9	102734542	Independent business unit proposal	1989
		Honeywell CP-6 project: LADC administrative records	
Box 9	102734589	Acquisition proposals and job	1990-1992

	Catalog Number	Title	Date
		searching	
Honeywell CP-6 project: CP-6 development records			
Box 9	102734621	CP-6 Front End Processors (FEP)	1975-1986
Box 9; 14	102734586	CP-6 initial release	1976-1979
Box 15; 16	102734601	CP-6 Technical Committee	1976-1981
Box 14; 15	102734568	CP-V to CP-6 migration	1976-1981
Box 16	102734624	CP-6 milestones, historical, and overviews	1976-1989
Box 16	102734617	CP-6 architecture	1976-1991
Box 16	102734628	Honeywell Large Systems Users Association (HLSUA) and EXCHANGE work on CP-6	1977-1990
Box 16	102734623	UNIX on CP-6	1977-1991
Box 16; 17	102734588	CP-6 performance and specifications	1978-1990
Box 17; 18	102734620	General Comprehensive Operating System (GCOS) and CP-6	1978-1990
Box 18	102734597	Market strategies and analyses	1978-1992
Box 18; 19	102734594	CP-6 software monthly status reports	1979-1983
Box 19; 20	102734605	CP-6 version B00-B03, release 2	1979-1983
Box 20	102734618	CP-6-related projects and software	1979-1988
Box 20	102734625	Schedules and timelines	1979-1989
Box 20	102734630	Beta testing and user documentation	1979-1990
Box 21; 22	102734611	CP-6 version C00, release 3	1980-1986
Box 22	102734590	Management of CP-6 software development and distribution	1980-1990
Box 23	102734626	CP-6 network capabilities and communications	1980-1992
Box 22; 23	102734604	STARLOG	1980-1992

	Catalog Number	Title	Date
Honeywell CP-6 project: CP-6 development records			
Box 24	102734629	CP-6 spotlight	1981-1984
Box 24	102734587	CP-6 strategic reviews	1981-1987
Box 24	102734603	CP-6 security capabilities	1982-1988
Box 20	102734631	Papers authored by G. Edward Bryan	1979-2002
Box 24	102734600	CP-6 business plans	1986
Box 24; 25	102734612	CP-6 versions D00, E00, and E01	1987-1990
Box 25	102734619	Data management system (DMS)	1988
Box 25	102734608	C language compiler for CP-6	1988-1991
Box 26	102734622	A RElational System (ARES)	1990-1992
Box 25; 26	102734614	CP-6 versions AR 1.0 through AR 3.0	1990-1992
Honeywell CP-6 project: Promotional material and press			
Box 26	102734528	Advertisements	1981
Box 26	102734526	Clippings and articles	1977-1989
Box 26	102734529	Honeywell periodicals and internal marketing communications	1977-1990
Box 26	102734527	Press releases	ca. 1977-1986
Box 13; 26	102734523	Product overviews and brochures	1977-1985
Honeywell CP-6 project: Manuals			
Box 26	102734596	Carleton University Computing Services	ca. 1986
Box 26	102734548	Concepts and facilities	1977-1989
Box 27	102734546	DPS 8	1983; 1990
Box 27	102734550	Installation, maintenance, and support	1980-1992
Box 27	102734595	Manual catalogs	1986-1989

	Catalog Number	Title	Date
Box 27	102734544	Networking and programs	1983-1990
Box 27; 28	102734549	Programming	1984-1990
		Honeywell CP-6 project: Conference and presentation materials	
Box 28; 29; 30	102734540	Overview, status report, and review presentations	1976-1992
Box 31	102734538	CP-6 conferences and seminars	1978-1991
Box 31; 32	102734532	HLSUA (Honeywell Large Systems Users Association) meetings	1979-1989
Box 31	102734583	Industry meetings	1979-1992
Box 33	102734582	Conference and seminar planning notes and correspondence	1987-1989
Box 33	102734533	Presentations given to Bull HN CEO Roland Pampel	1988-1989
Box 33	102734543	Bull Users Society (BUS) meeting	1990
Box 30; 31	102734530	Xerox and CP-6 Users Exchange meetings	1977-1982; 1991-1992
Box 34	102734627	Presentation photographic slides	undated
		Non-CP-6 Honeywell	
Box 33; 35	102734563	Manuals, catalogs, and price lists	1974-1992
Box 35	102734574	Honeywell administrative and project records	1975-1986
Box 35	102734567	Clippings, press, and periodicals	1976-1992
Box 35	102734565	Promotional material	1976-1992
Box 35; 36; 37	102734577	Conference proceedings and records	1980-1990
Box 37	102734572	Honeywell Bull records	1987-1989
Box 37	102734576	Bull administrative and project records	1987-1992
Box 37; 38	102734571	Employee workbooks and handbooks	1988-1989

	Catalog Number	Title	Date
Box 38	102734569	Bull internal newsletters and announcements	1989-1992
Box 38	102713245	Bull HN Information Systems promotional material	ca. 1990
		SDS and XDS records	
Box 38	102734508	Interface	1964-1975
Box 38; 39	102734521	Universal Time-Sharing System (UTS)	1966-1974
Box 39; 40	102734516	Product development, descriptions and specifications	1966-1975
Box 40	102734511	Scientific Data Systems (SDS) administrative records	1967-1969
Box 40	102734517	Xerox and Scientific Data Systems (SDS) conference materials	1967-1974
Box 40	102734512	Manuals and reference cards	1967-1976
Box 40	102734510	Personnel records	1968-1978
Box 40	102734514	Tymshare, Inc.	1969-1971
Box 40	102734513	Market analyses and product comparisons	1969-1973
Box 40; 41	102734515	Promotional material, press, and sales	1970-1979
Box 41	102734519	EXCHANGE proceedings	1971-1983
Box 43	102734632	Xerox acquisition of Scientific Data Systems (SDS)	ca. 1971
Box 42	102734522	Xerox periodicals and newsletters	1972-1975
Box 42	102734506	User news	1972-1978
Box 42; 43	102734520	CP-V operating system	1973-1980
Box 43	102734524	Honeywell acquisition of Xerox mainframe computer business	1975
Box 43	102734525	Motorola Sigma 9 agreements	1975

	Catalog Number	Title	Date
Box 38	102734509	Annual reports	1966-1969; 1976
Box 43	102734518	EXCHANGE Users' Group program library	ca. 1978
		RAND Corporation records	
Box 43	102734541	JOHNNIAC	1955-1965
Box 43	102734535	SMAC	1958; 1991
Box 43; 44	102734531	Technical papers on RAND Corporation projects	1960-1969
Box 44	102734539	RAND Computer statistics notebook	1961-1964
Box 44; 45; 46	102734547	JOSS (JOHNNIAC Open Shop System)	1961-1968
Box 46	102734537	ALMOST / SMILE	1963
Box 46	102734534	RAND Corporation equipment planning	1963-1965
Box 46	102734575	Computing newsletter	1965-1967
Box 46	102734554	History of JOSS research	1967; 1995-2001
Box 46	102734545	JOHNNIAC simulator and Computer History Museum lecture	1995-1998
		IBM records	
Box 46	102734564	Aerojet programming manuals for IBM computers	1962-1964
Box 46	102734570	Bell Telephone Laboratories programming for IBM 704	1957-1958
Box 51	102739091	FORTRAN manuals for the IBM 704	1957-1958
Box 46	102734562	IBM 1050	1963
Box 51	102739094	IBM 407, 519, and 650	1955-1957
Box 51	102739093	IBM 704, 705, and 709-7090	1955-1960
Box 46; 47	102734560	IBM 7040/7044	1961-1965

	Catalog Number	Title	Date
Box 47	102734561	International Business Machines Corporation (IBM) manuals and reference cards	1956-1964
Box 47	102734566	SHARE Inc.	1962-1965
		Other companies and publications	
Box 51	102739095	Burroughs Corporation manuals and promotional material	ca. 1959
Box 49	102734558	Clippings and periodicals	1976-1993
Box 48	102734559	Communications of the Association for Computing Machinery	1958-1964
Box 49	102734553	Conference and workshop materials	1961-1966; 1991-1992
Box 49	102734551	Control Data Corporation manuals and brochures	1959-1963
Box 49	102734555	Manuals and documentation	1959-1991
Box 50	102734598	Object-oriented programming articles and advertisements	1987-1988
Box 50	102734599	Organizational records	1985-1987
Box 51	102739096	Philco 2000 Operating System (SYS)	1963-01
Box 50	102734552	Philco manuals	1962-1964
Box 50	102734556	Promotional material	1956-1992
Box 50	102734557	Technical papers and reports	1956-1994