
Guide to the Guide to the Harwood G. Kolsky Papers

Collection number: X3021.2005

Computer History Museum

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Descriptive Summary

Title: Harwood G. Kolsky Papers

Dates: 1943 - 1998

Collection number: X3021.2005

Creator: Kolsky, Harwood G.

Collection Size: 26 linear feet 20 cartons and one oversized box

Repository: Computer History Museum

Mountain View, CA 94043

Abstract: The Harwood G. Kolsky collection is comprised of documents related to the development of super computers, microprocessors and microcomputers, computer modeling, digital image processing, computer programming languages, as well as materials related to teaching computer architecture and computer history. The collection primarily consists of technical papers and reports, manuals, notes, promotional material, and correspondence related to Los Alamos National Laboratory and International Business Machines (IBM) Corporation.

Physical location: For current information on the location of these materials, please consult the Library's online catalog.

Languages: Languages represented in the collection: English

Access

Collection is open for research.

Publication Rights

The Computer History Museum can only claim physical ownership of the collection. Users are responsible for satisfying any claims of the copyright holder. Permission to copy or publish any portion of the Computer History Museum's collection must be given by the Computer History Museum.

Preferred Citation

[Identification of Item], [Date], Harwood G. Kolsky Papers, Lot X3021.2005, Box [#], Folder [#], Computer History Museum

Provenance

Harwood G. Kolsky donated his papers to the Computer History Museum in 2005.

Biography / Administrative History

Harwood G. Kolsky, an emeritus professor of computer engineering from the University of California, Santa Cruz (UCSC), was a physicist who became a computer scientist well before that field was a recognized department of academic learning. He worked on many early

computers and their applications and architectures. Later in his career he directed a variety of projects involving programming languages, scientific applications, and digital image processing.

Kolsky was born on January 18, 1921. He received a B.S. degree in Engineering Physics from the University of Kansas in 1943. He was in the U.S. Army's Central Pacific Signal Corps from 1943 to 1946. In 1950 he was awarded a Ph.D. in Physics from Harvard University.

In 1957, after seven years at the Los Alamos National Laboratory, he joined International Business Machines (IBM) working out of the Poughkeepsie, New York facility. He was a member of the product planning group for the STRETCH (IBM 7030) computer. In 1959, he became assistant manager of the IBM Federal Systems Division (FSD) office in Omaha, Nebraska. Kolsky was named manager of the systems science department of IBM's San Jose Research Laboratory in 1961. In 1962, he headed an advanced technology group in the Advanced Systems Development Division at Los Gatos, California. He joined the Palo Alto Scientific Center when it was formed in 1964 as manager of the atmospheric physics group. Later, he headed projects in programming languages, microprogramming, and digital image processing.

Dr. Kolsky was named an IBM Fellow in 1969. He served on the IBM Corporate Technical Committee at Armonk, New York from 1974 to 1975. He was also head of the Board of Consultants for the IBM European Scientific Centers. He published over 30 papers and was a member of four professional societies.

In 1985, he joined the newly-formed UCSC Computer Engineering department as a visiting professor. In 1986, he retired from IBM and began a new career as a full-time professor at UCSC. At UCSC, Kolsky helped manage research projects and taught courses in computer architecture and computer history until his retirement in 1996.

Kolsky is married to Frances Cilek Kolsky, also a 1943 graduate of the University of Kansas. She taught high school while Harwood was in the Army. The Kolskys have four children and three grandchildren.

Scope and Content of Collection

The Harwood G. Kolsky collection contains his personal papers accumulated throughout his professional life as a physicist and computer scientist. The papers are arranged chronologically from earliest to latest date of creation, and are mostly comprised of technical papers and reports, manuals, notes, promotional material, and correspondence. They relate to all aspects of his professional life.

Most of the early papers document Dr. Kolsky's professional and personal experiences living and working in Los Alamos at the National Laboratory. The largest group of materials relate to his career with IBM and include technical reports and papers, brochures and promotional materials, as well as correspondence and notes related to significant projects. Projects documented include the development of the STRETCH (IBM 7030) computer, various computer simulation projects, and digital image processing projects.

His professorship at UCSC is documented through campus publications, course documents, and lecture notes. Of note are his lecture materials related to computer history.

Some items related to the IBM 7030 (STRETCH) computer have been scanned and are available on the Computer History Museum's website.

Indexing Terms

The following terms have been used to index the description of this collection in the library's online public access catalog.

Computers

Computer industry

Computer simulation

Digital image processing

Image processing Digital techniques

Programming languages (Electronic Computers)

Kolsky, Harwood G.

International Business Machines Corporation

International Business Machines Corporation. Federal Systems Division

International Business Machines Corporation. San Jose Research Laboratory

International Business Machines Corporation. Advanced Systems Development Division

International Business Machines Corporation. Palo Alto Scientific Center

IBM 7030 (Computer)

Los Alamos National Laboratory

Supercomputer industry

Supercomputers

University of California, Santa Cruz. Dept. of Computer Engineering

Separated Material

Photographs, software, and books can be found in the CHM collections database at <http://www.computerhistory.org/search/> .

Box 1 1943-1952

Physical Description: 22 folders

- 102663090 **Introduction to theory of relativity: Class notes 1943**
- 102632748 **Notes on statistical mechanics: Lecture class notes 1945**
- 102635203 **Handbook for IBM machines: Numerical computation 1946**
- 102663195 **Report on the ENIAC (Electronic Numerical Integrator and Computer): Operating manual 1946**
- 102632782 **1949-50 Association of Computing Machinery (ACM) Papers 1949**
- 102634664 **Plastic, elastic papers 1949**
- 102635204 **A manual for coding on the Standards Eastern Automatic Computer (SEAC) 1950**
- 102687691 **Boundary problems for linear partial differential equations lecture notes 1950**
- 102634665 **Civil Defense brochures 1950**
- 102663091 **Collection of molecular beam papers 1950**
- 102634668 **Collection of papers 1940s-50s (mathematics, statistics, computer structures, physics) 1950**
- 102663092 **Los Alamos colloquium, lectures, et.: Notes 1950**
- 102636216 **Nuclear physics and X-rays: Laboratory manual 1950**
- 102635222 **Papers about the Standards Eastern Automatic Computer (SEAC) 1950**
- 102636217 **RF Spectrum of H2 in magnetic field 1950**
- 102635530 **Card programmed electronic calculator: Preliminary manual of information 1951**
- 102634574 **Los Alamos scientific laboratory (LASL) annual recruiting brochures 1951**
- 102635549 **Los Alamos scientific laboratory (LASL) manual for card programmed calculator (cpc) mod I 1951**
- 102634674 **Maniac computer related materials and notes 1951**
- 102663093 **Programming manual for the UNIVAC System Part I 1951**
- 102663095 **Circle computer, Teleducer, Monroe short-cut statistical methods, symbolic design of digital computers 1952**
- 102634709 **Type 701 Electronic Data Processing Machines (EDPM): Preliminary operator's reference manual 1952**

Box 2 1952-1954

Physical Description: 21 folders

- 102663099 **Conversion for the IBM electronic data processing machines: Type 701 and associated equipment 1952**
- 102663098 **International Business Machines (IBM) 701 class related materials 1952**
- 102663097 **Preliminary report on the IBM Electronic Data Processing Machine 1952**
- 102635928 **Real and complex roots of algebraic equations on the IBM 650 1952**
- 102635516 **2D-Hydrodynamics conference--Notes, famous physicists 1953**
- 102635225 **A shorthand coding system for the IBM 701 calculator 1953**
- 102663100 **Colloquium lectures, etc.--Notes, famous physicists 1953**
- 102649376 **High Energy Phenomena 1953**
- 102687690 **Hydrodynamic instability 1953**
- 102663152 **IBM 650 magnetic drum data-processing machine: Manual of Operation 1953**
- 102632810 **IBM 701 speedcoding system 1953**
- 102636215 **Los Alamos Scientific Laboratory (LASL) 701 Utility Programs 1953**
- 102634744 **Magnetic Core devices: Early storage device papers 1953**
- 102635482 **Math and computing papers 1953**
- 102635612 **Memorandum about computer system design: Asynchronous control 1953**
- 102663103 **Numerical analysis lecture notes 1953**
- 102663151 **A method for the numerical solution of transient hydrodynamic shock problems in two space dimensions 1954**
- 102663105 **International Business Machines (IBM) 701 users' class notes and related materials 1954**
- 102635495 **Memos and press releases related to the Oppenheimer security case at the Los Alamos Scientific Laboratory 1954**
- 102634445 **UNIVAC Brochures 1954**
- 102632819 **Various reports and materials related to the International Business Machines Corporation (IBM) systems 701A & 704 1954**

Box 3 1954-1956

Physical Description: 19 folders

- 102663101 **Consultant's reports: Notes and memos 1954-74 1954**
- 102663102 **Nuclear scattering of high energy neutrons and the optical model of the nucleus 1954**
- 102634749 **1955 heat transfer and fluid mechanics institute: Reprints of papers 1955**
- 102635630 **704 electronic data-processing machine: Manual of operation 1955**
- 102634745 **A career for you in IBM 1955**
- 102635224 **Dual coding system for IBM 701 (a system that allowed the use of floating point arithmetic on the IBM 701) 1955**
- 102634748 **Parametric methods in numerical solution of differential equations 1955**
- 102635524 **Radio Corporation of America (RCA) BIZMAC brochures 1955**
- 102634746 **Rocket-propelled airplanes 1955**
- 102634747 **Solution of transport equation by sn approximations 1955**
- 102634711 **A 704 primer or coding in 10+ easy lessons 1956**
- 1026034480 **Computer Brochures (ERA, Bendix, Underwood, Librascope, Hughs, Burroughs, Readix, Datatron, National, Heath, Reeves, Electronic Associates and others 1956**
- 102634713 **Eastern Joint Comuter Conference 1956**
- 102634712 **Los Alamos Scientific Laboratory MANIAC II 1956**
- 102635202 **Nuclear test sites: Enewetok and Nevada 1956**
- 102679286 **Tape or memory coupled systems 1956**
- 102635531 **The Floco Assemby Program Manual for the IBM type 704 calculator 1956**
- 102634714 **Useful debugging programs for IBM 704 1956**
- 102634717 **Various reports, papers and computer brochures related to electronic and digital computers, national defense, Moseley autograf, Librascope, Teletype, and others 1956**

Box 4 1956-1957

Physical Description: 9 folders

- 102634676 **International Business Machines (IBM) 704 SHARE program reference materials and manual 1956**
- 102634677 **Magnolia Petroleum Company colloquium lectures in the pure and applied sciences: Some stochastic problems in physics and mathematics 1956**
- 102687492 **Neutron diffusion--Sn method 1956**
- 102634675 **Nuclear, plasma engine designs 1956**
- 102634716 **Plasma physics lecture and notes 1956**
- 102679171 **The Thermodynamic properties of 54 elements considered as ideal monatomic gases 1956**
- 102634720 **Cryogenic Memory 1957**
- 102634721 **Papers about International Business Machine Corporation's (IBM) 704 transistor circuits 1957**
- 102634015 **Stretch simulation: planning & design studies 1957**

Box 5 1957-1958

Physical Description: 13 folders

- 102679281 **International Business Machines (IBM) Machine Comparisons, multiple 1957**
- 102679290 **A numerical solution of a spherical blast wave utilizing a completely tabular equation of state 1958**
- 102679292 **Algae 1 compiler for IBM 704, 704 commands grouped according to the type of operation, and various mathematical tables 1958**
- 102679293 **Atoms for Peace collection of papers 1958**
- 102679295 **Engineering faculties conference on digital computers related materials 1958**
- 102679298 **IBM 650 data processing system bulletins 1958**
- 102679282 **International Business Machines Corporation (IBM) 7090 early papers 1958**
- 102679297 **International Business Machines Corporation (IBM) interdivisional computation seminar, July 9 - 10, 1958, papers presented at seminar 1958**
- 102679294 **Philco Transac related materials 1958**
- 102679291 **Proceedings: IBM interdivisional computation seminar and notes 1958**
- 102679283 **Read only memory computer: Computer design proposal 1958**
- 102634622 **Roster of members 1958**
- 102679557 **Various articles and materials from 1958-1969 dealing with shocks, waves, simulations, denotation, reactors, and more 1958**

Box 6 1959-1960

Physical Description: 21 folders

- 102679280 **Competitive computers clippings, reports and notes 1959**
- 102663158 **FLOCO II Manual 1959**
- 102663160 **IBM 7070 data processing system bulletin: Operation codes 1959**
- 102679300 **Los Alamos Scientific Lab utilities for use with the International Business Systems (IBM) 7090 & 7030 1959**
- 102679289 **Numerical analysis lectures and notes 1959**
- 102679288 **Statistical decision problem papers and notes 1959**
- 102663159 **The DSN Code 1959**
- 102663157 **Two-dimensional hydrodynamic calculations 1959**
- 102634715 **Weather system 433-L, various papers 1959**
- 102679285 **438L Data handling experiment procedures 1960**
- 102663168 **9-ANGIE--A two-dimensional, multigroup, neutron-diffusion-theory reactor code for the IBM 709 or 7090 1960**
- 102663164 **Dynamics of compressible fluids 1960**
- 102663166 **Inversion of 3-diagonal compound matrices 1960**
- 102663161 **Los Alamos Scientific Laboratory (LASL) documentation of utility programs for 704 1960**
- 102663167 **Neutron diffusion theory programs and their application to simple critical systems 1960**
- 102679287 **Programming manual volume I executive control program I/O processor 1960**
- 102663162 **Programming manual volume II formatted file system 1960**
- 102663163 **Programming manual volume III unformatted file system 1960**
- 102679457 **Proposal for the establishment of an automatic translation facility 1960**
- 102663165 **Stability of difference equations selected topics 1960**
- 102663169 **The solution of the simplest centered difference approximation to Poisson's differential equation for a rectangular grid of equally spaced points 1960**

Box 7 1960-1962

Physical Description: 35 folders

- 102679563 **Fortran bulletin: Fortran modifications/machine language instructions in Fortran programs 1960**
- 102663172 **From the Dirks D-1, D-2, D-3 and D-20 papers, a rough draft of a report 1960**
- 102634585 **GPD technical record: Digital computers--logical principles and operation 1960**
- 102663171 **Lawrence Radiation Laboratory (LRL) and International Business Machines (IBM) meeting notes regarding high speed computer and system requirements 1960**
- 102663173 **Machine processing language: A table-lookup machine for processing of natural languages; The stenewriter system (abridged), plus two other reports 1960**
- 102663170 **Seminar on codes for reactor computations, Vienna, April, 1960: Numerical solution of quasi-linear equations 1960**
- 102663174 **A 650 demonstration: Simulation of bank teller waiting lines using a stochastic banking model; A capital investment program for the IBM 1620 1961**
- 102679463 **Analysis of GPD San Jose production control Phase I--the present system; Phase II: future Systems Requirements 1961**
- 102679464 **International standards for data transmission 1961**
- 102679470 **Introduction to scientific computing techniques and procedures: Student notes 1961**
- 102679471 **Isothermal squeeze films 1961**
- 102635226 **LASL in the news: public relations news clippings 1961**
- 102679458 **Lagrangian difference approximations for fluid dynamics 1961**
- 102687737 **Lagrangian hydrodynamic computations and molecular models of matter 1961**
- 102679467 **Meeting notes regarding visitors to International Business Machines Corporation (IBM) Advanced Systems Development Division (ASDD) laboratory 1961**
- 102663175 **Multiple business system reports: MBS benefits to IBM and Technical status of the multiple business system 1961**
- 102635673 **Nearest neighbor hydrodynamics calculation 1961**
- 102679468 **Notes on automatic information retrieval 1961**
- 102663176 **Nuclear computing technical bulletins 1-5 1961**
- 102679461 **Numerical solution of the one-dimensional Lagrangian hydrodynamic equations 1961**
- 102679462 **Numerical solution of the one-dimensional hydrodynamic equations in an arbitrary time-dependent coordinate system 1961**
- 102679460 **The IVY System 1961**
- 102679465 **The inventory management simulator for the IBM 1620 1961**
- 102679459 **The particle-and-force computing method for fluid dynamics 1961**
- 102679466 **USAF progress in automatic language translation 1961**
- 102679469 **Walnut document storage system related materials 1961**
- 102679478 **A proposed modification of the available momentum region in Thomas-Fermi theory 1962**
- 102679477 **Digital computer needs in universities and colleges: A report of the Committee on Uses of Computers, National Academy of Sciences--National Research Council 1962**
- 102679472 **Hurry, hurry, hurry 1962**
- 102679476 **Principles of operations type 701 and associated equipment 1962**
- 102679474 **Technical highlights publications 1962**
- 102635238 **Technical proposal for logical organization and design of a parallel network computing system 1962**
- 102679475 **The operational characteristics of the processors for the Burroughs B 5000 1962**
- 102679479 **Three-dimensional Cartesian particle-in-cell calculations 1962**
- 102679473 **Various papers regarding manufacturing control and automation 1962**

Box 8 1956-1965

Physical Description: 36 folders

- 102635239 **Various International Business Machines (IBM) keypunch references: Manuals, papers and related materials 1956-1971**
- 102635675 **Various papers related to International Business Machines (IBM) Parallel Network Digital Computing (PNDC) system 1960-1966**
- 102679510 **Collection of papers of 1960s: s/360, parallel, memories, DEC 1960-1987**
- 102679483 **Four reports concerning the analysis of San Jose GPD production control; Requirements generation, explosions, and bills of material 1961-1963**
- 102679480 **A common language for hardware, software, and applications 1962**
- 102679482 **A punched-card machine method for management of nuclear materials 1962**
- 102679495 **Computer class notes regrading computer organization and systems 1962**
- 102679481 **Difference equations for plane thermal elasticity; Two-frequency nonlinear Taylor instability 1962**
- 102687740 **General description of a low-cost computer organization based on the dynamic streaming of records 1962**
- 102679488 **Highly parallel machines 1962**
- 102679491 **Miscellaneous facilities of extended ALGOL for the Burroughs B 5000 1962**
- 102687739 **Some mathematical aspects of parallel computation 1962**
- 102679489 **Status fiscal year 1962 1962**
- 102634737 **Table lookup computers 1962**
- 102679490 **Various papers regarding a hypothetical computer 1962**
- 102679494 **Preliminary papers describing a streaming processor 1962-1964**
- 102679487 **Early displays and plotters 1962-1969**
- 102679496 **Cocke Fortran compiler notes 1962-1987**
- 102679500 **General information manual: An introduction to engineering analysis for computers 1963**
- 102679508 **IBM 7090/7094 IBSYS operating system version 13 Macro Assembly Program (MAP) language 1963**
- 102679503 **Lecture notes and references on computer history 1963**
- 102679506 **Management control and information processing: A description of how data processing procedures are developed at the Fireman's Fund Insurance Companies 1963**
- 102679504 **Summary report managerial opinion survey 1963 1963**
- 102679499 **Theory of correspondence between fluid dynamics and particle-and-force models 1963**
- 102679501 **Various materials related to the Atomic Energy Commission (AEC) and International Business Machine (IBM) computer situation 1963**
- 102679502 **Various papers describing a general linear sequential network 1963**
- 102679497 **Extended ALGOL reference manual for the Burroughs B 5000 and other related materials 1963-1964**
- 102679484 **Inventory control reports 1963-1964**
- 102679507 **Stanford computer center related materials 1963-1968**
- 102679509 **An analysis of the likely effects of a large core storage upon computer programs at Lawrence Radiation Laboratory, Livermore, California 1964**
- 102679498 **Burroughs B 5500 information processing systems: Extended ALGOL reference manual 1964**
- 102679511 **Burroughs B 5500 information processing systems: Stream procedure reference manual 1964**
- 102679512 **Burroughs B 5500 information processing systems: reference manual 1964**
- 102635631 **Concerning computer storage organization and notation 1964**
- 102687738 **Tables, flow-charts and program logic 1964**
- 102679505 **The IBM system/360 model 92: The overlap design of the central processing unit 1965**

Box 9 1964-1965

Physical Description: 32 folders

- 102634605 **A compiler and machine organization for parallel processing of algebraic expressions 1964**
- 102634606 **BASIC: A manual for BASIC, the elementary algebraic language designed for use with the Dartmouth Time Sharing System 1964**
- 102679515 **Comparison of finite difference expressions used in Lagrangian fluid flow calculations 1964**
- 102679524 **Computer organization for array processing 1964**
- 102679523 **IBM System/360 principles of operations manual 1964**
- 102679522 **IBM technical handbook of systems engineering 1964**
- 102635999 **Lawrence Radiation Laboratory (LRL), Livermore, California and International Business Machines (IBM) meeting notes and related materials spanning 1964-1971 1964**
- 102679514 **Numerical calculation of time-dependent viscous incompressible flow of fluid with free surface 1964**
- 102679513 **Numerical fluid dynamics using the particle-and-force method 1964**
- 102679517 **Numerical simulation of the earth's atmosphere 1964**
- 102679520 **Scientific and engineering computing: A state of the art survey IBM scientific marketing 1964**
- 102687741 **The stored program calculator (SPC): A small high-performance computer 1964**
- 102634607 **Various Scientific Center progress reports 1964**
- 102679527 **Various papers about Iverson notation and A Programming Language (APL) 1964**
- 102679525 **Various papers about computer organization and notation 1964**
- 102679526 **Various papers about exotic computer languages: Nial, Unix, Jovial, Opcol 1964**
- 102634608 **Various papers describing Scientific Center projects 1964**
- 102636182 **Various papers related to International Business Machines (IBM) announcement regarding System/360 1964**
- 102679516 **Various papers related to the Cypress Digital Image System 1964**
- 102679521 **Various papers related to the Stanford computer science class 1964**
- 102687742 **Various papers related to the Stanford computer science project 1964**
- 102679519 **Various papers related to the streaming processor project 1964**
- 102634603 **Various papers relating to the International Business Machines (IBM) System/360 announcement: Collection of New Production Line (NPL) 360 papers 1964**
- 102634604 **Various papers relating to the International Business Machines (IBM) System/360 model 92 1964**
- 102679534 **A two dimensional time dependent numerical study of rotational couette flow which is periodic in the axial direction 1965**
- 102679535 **Derivation of a generalized von Neumann pseudo-viscosity with directional properties 1965**
- 102687743 **HASTI: A numerical calculation of two-dimensional Lagrangian hydrodynamics utilizing the concept of space-dependent time steps 1965**
- 102679529 **Nuclear physics application summary: The application, the instrumentation, the usefulness of the 1800 1965**
- 102687744 **Numerical calculation of surface waves: A modified ZUNI code with surface particles and partial cells 1965**
- 102687745 **Rezone: A proposal for accomplishing rezoning in two-dimensional Lagrangian hydrodynamics problems 1965**
- 102687746 **The MAC Method: A computing technique for solving viscous, incompressible, transient fluid-flow problems involving free surfaces 1965**
- 102679528 **Various papers related to the Advanced Computer System (ACS) an International Business Machines (IBM) super computer project 1965**

Box 10 1965-1966

Physical Description: 34 folders

- 102679542 **An introduction to Fortran and ALGOL programming 1965**
- 102679553 **Computer system design notes 1965**
- 102679545 **Correspondence and notes regarding the Fall Joint Computer Conference of the International Federation for Information Processing (IFIP) societies 1965**
- 102679543 **Euler: A generalization of ALGOL and its formal definition 1965**
- 102687748 **IBM 7090/7094 IBSYS operating system version 13 Fortran IV language 1965**
- 102687747 **IBM 7090/7094 IBSYS operating system version 13 operator's guide 1965**
- 102687749 **IBM 7090/7094 IBSYS operating system version 13 system monitor (IBSYS) 1965**
- 102679554 **MAP Course Notes 1965**
- 102679544 **Materials from the International Federation for Information Processing (IFIP) Congress of 1965 1965**
- 102679559 **NSA ALGOL: An extended, machine-independent version of ALGOL 62 programmer's reference manual 1965**
- 102679552 **On classification and superposition principles for nonlinear operators 1965**
- 102679550 **Palo Alto Scientific Center Progress Reports 1965**
- 102679558 **Possible performance improvements by microprogramming for system/360 models 40, 50, and 65 1965**
- 102679551 **Stanford Computation Center reference manual 1965**
- 102679537 **Stanford University Faculty/Staff Directory 1956-66 1965**
- 102679541 **Two papers regarding parallelism, networking and the Parallel Network Digital Computer (PNDC): Parallelism, PNDC and computing; The IBM Parallel Network Digital Computer: PNDC 1965**
- 102679546 **Various papers regarding the Computer Science department of Stanford University 1965**
- 102679547 **Various papers related to associative memory computers 1965**
- 102679538 **Various papers related to the Advanced Computer System (ACS) an International Business Machines (IBM) super computer project 1965**
- 102679539 **Various papers related to the International Business Machines Weather Study Committee and the National Center for Atmospheric Research (NCAR) meetings 1965**
- 102679536 **Various papers related to the Stanford Computer Center 1965**
- 102679549 **Various papers related to the management of the Palo Alto Scientific Center 1965-79 1965**
- 102679548 **Various papers related to the management of the Palo Alto Scientific Center 1965-85 1965**
- 102679540 **Various weather model references 1965**
- 102679560 **Burroughs B 5500 Information Processing Systems extended ALGOL language manual 1966**
- 102687750 **Computation of charge distribution on or near equipotential surfaces 1966**
- 102679564 **Finite difference methods of solution of nonlinear flow processes with application to the Benard problem 1966**
- 102679561 **Nuclear Computing Technical Bulletin 1966**
- 102679565 **Numerical study of large amplitude free surface motions 1966**
- 102679566 **System/360 scientific subroutine package (360A-CM-03X) programmer's manual 1966**
- 102679562 **The particle-in-cell method for the calculation of the dynamics of compressible fluids 1966**
- 102634620 **Various papers about the Pipeline Organization Processor (POP) 1966**
- 102634619 **Various reports about the Super-Machine 1966**
- 102679567 **Weather Study Reports 1966-67 1966**

Box 11 1966-1968

Physical Description: 30 folders

- 102679284 **A contribution to the development of ALGOL 1966**
- 102634621 **APL\360 terminal system: Instructions for operation 1966**
- 102679568 **Clippings relating to computers from various news sources 1966**
- 102679571 **Computer requirements in meteorology 1966**
- 102679570 **IBM system/360 job control language 1966**
- 102634624 **International Business Machines (IBM) news bulletins dated 1966 - 1979 1966**
- 102634623 **Numerical methods hydrodynamics class notes Stanford class ME 240b 1966**
- 102679569 **Various materials related to Stanford University computer science course 136, Autumn quarter 1966 1966**
- 102679573 **Collections of International Business Machines (IBM) technical reports related to information retrieval; SDI bibliography-1 1967**
- 102679582 **Copies and reprints of various published International Business Machines (IBM) scientific reports 1967**
- 102679586 **Data and systems requirements in meteorology: A survey of the systems problems and trade-offs which face present and future worldwide weather networks 1967**
- 102679574 **Fortran BKW: A code for computing the detonation properties of explosives 1967**
- 102679577 **Fortran SIN: A one-dimensional hydrodynamic code for problems which include chemical reactions, elastic-plastic flow, spalling, and phase transitions 1967**
- 102679575 **Heuristic stability theory for finite difference equations 1967**
- 102679585 **Implementation of numerical weather forecasting on a system 360, model 65 with an array processor (2938, model 2) 1967**
- 102679584 **International Business Machines (IBM) Palo Alto scientific center activities reports '67-69 1967**
- 102679583 **International Business Machines (IBM) Palo Alto scientific center activities reports and memoranda, '67-86 1967**
- 102679578 **One-dimensional elastic-plastic calculations for aluminum 1967**
- 102679581 **The Turing machine, draft version of report 1967**
- 102679576 **Various International Business Machines (IBM) publications relating to data processing applications and library processes 1967**
- 102679572 **Various materials related to an International Business Machines (IBM) library survey 1967**
- 102679579 **Various materials relating to the International Business Machines Corporation (IBM) Advanced Computing Systems (ACS) project 1967**
- 102679580 **Various papers relating to the International Business Machines Corporation (IBM) array processors 1967**
- 102679590 **A Lagrangian method for calculating the dynamics of an incompressible fluid with free surface 1968**
- 102679591 **An atmospheric general circulation model benchmark for the University of Illinois: ILLIAC IV 1968**
- 102679592 **Collection of materials related to the ILLIAC IV 1968**
- 102679593 **FSD parallel processor development project 1968**
- 102679588 **International Business Machines (IBM) scientific marketing newsletter System/360 model 9; Document analyzing trends in the development of super computers 1968**
- 102679587 **Photocopies of published papers relating to satellite orbit 1968**
- 102679589 **Proceedings of the APS topical conference on numerical simulation of plasma, September 18-20, 1968 1968**

Box 12 1968-1970

Physical Description: 36 folders

- 102679598 **A status report: A primitive equation limited area "fine mesh" numerical weather prediction model 1968**
- 102679599 **APL\360 User's Manual 1968**
- 102679600 **Computer synthesis of holograms for 3-D display 1968**
- 102679596 **International symposium on high-speed computing in fluid dynamics 1968**
- 102679594 **Programming notation in systems design 1968**
- 102679595 **Project manager's documentation guide 1968**
- 102679601 **Subroutines for computing the parameters of the electromagnetic radiation scattered by a sphere 1968**
- 102679597 **Various papers related to the Palo Alto scientific center laboratory system and laboratory automation 1968**
- 102679620 **A manual for managers of IBM scientific centers of the World Trade corporation, draft 1969**
- 102679611 **Analysis of the FNWF numerical ray-tracing and sound intensity schemes 1969**
- 102679610 **Application of the finite fourier transform methods to the solution of finite difference equations and pictorial data interpretation 1969**
- 102679613 **Four documents regarding the plasma physics project 1969**
- 102679615 **IBM system/360 Basic Fortran IV language 1969**
- 102679619 **IBM system/360 operating system introduction 1969**
- 102679621 **IBM/GGC-3--Version of GGC-3 and related auxiliary codes for IBM system/360 1969**
- 102679608 **Investigation of mesoscale meteorology and air pollution dynamics (Project IMMAD) 1969**
- 102679612 **Management science in IBM: An annual report, 1969 1969**
- 102679618 **Meteorology lecture materials 1969**
- 102679606 **Numerical methods for fluid dynamics, an annotated bibliography 1969**
- 102679616 **Reprint of article from the Journal of Atmospheric Sciences: Numerical simulation of weather and climate 1969**
- 102679614 **Scientific marketing newsletters 1969**
- 102679617 **Sparse Matrix Proceedings 1969**
- 102679602 **The University-military complex: A directory and related documents 1969**
- 102679605 **Turbulence Distortion in a nonuniform tunnel 1969**
- 102679604 **Two documents addressing security of computing facilities and privacy 1969**
- 102634641 **Two papers: Effect of coarseness of the integration increment on the calculation of the radiation scattered by polydispersed aerosols; The problem of multiple scattering in a planetary atmosphere 1969**
- 102679603 **Various documents related to the future of computer architecture 1969**
- 102634642 **Various materials regarding the Delphi Technique 1969**
- 102679607 **Various papers on relativity theory 1969**
- 102679609 **Various papers regarding numerical weather simulation lectures 1969**
- 102679627 **An APL machine 1970**
- 102679625 **Ecology project seminar documents and notes 1970**
- 102679623 **Fluid dynamics: An introductory text 1970**
- 102679626 **Problem solving techniques 1970**
- 102679622 **Proceedings IBM Fellow conference 1970**
- 102679624 **Transport theory of turbulence 1970**

Box 13 1970-1973

Physical Description: 37 folders

- 102679635 **Air pollution from automobile sources: a state-of-the-art survey 1970**
- 102679634 **An implicit finite-difference method for a simplified weather model 1970**
- 102679636 **An introduction to computer simulation in applied science 1970**
- 102679630 **Major trends in large scientific computing 1970**
- 102679628 **Multiprocessor solution of some AEC problems 1970**
- 102679633 **Numerical simulation of weather and climate (no. 4 & 5) 1970**
- 102679631 **Scientific center 1970 projects 1970**
- 102679632 **Scientific computing newsletter 1970 1970**
- 102679629 **Transform method for the calculation of vector-coupled sums: application to the spectral form of the vorticity equation 1970-1974**
- 102679640 **APL microprocessor project memos and reports 1971**
- 102679643 **APL-meteorology problem 1971**
- 102679637 **Articles by "Blaise Pascal" concerning gambling 1971**
- 102679641 **CP/CMS class 1971**
- 102679650 **Historical APL listings 1971**
- 102679649 **MPL/145: a language and compiler for system/370 model 145 microprogramming 1971**
- 102679638 **Memos dealing with high performance computing 1971**
- 102679644 **Mesoscale meteorology and air quality dynamics 1971**
- 102679642 **Micron: an integrated performance tool; Use of writable control store for finding and eliminating program bottlenecks 1971**
- 102679646 **PDELAN user's manual version I 1971**
- 102679639 **Reports to the scientific center strategy board about various European scientific centers 1971**
- 102679645 **Scientific computing newsletter 1971 1971**
- 102679647 **Supporting Fortran on an APL-based higher level system 1971**
- 102679648 **The efficient evaluation of array subscripts of arrays 1971**
- 102679682 **A numerical study of buoyancy induced turbulence 1972**
- 102634636 **APL microcode and applications 1972**
- 102634635 **APL task group final report 1972**
- 102679690 **An APL implementation of the DENDRAL algorithm 1972**
- 102679683 **Global weather modeling with vector spherical harmonics 1972**
- 102679686 **Global weather modeling with vector spherical harmonics report no. 1 1972**
- 102679684 **Global weather modeling with vector spherical harmonics report no. 2 1972**
- 102679685 **Preliminary report on the application of vector spherical harmonics to numerical weather prediction and related problems 1972**
- 102634633 **Scientific center marketing newsletters 1972**
- 102679681 **Scientific center project reports 1972**
- 102634634 **IBM organization charts 1972-90 1972-1990**
- 102679687 **Weather systems department IRAD report 1972 volume I 1973**
- 102679688 **Weather systems department IRAD report 1972 volume II 1973**
- 102679689 **Weather systems department IRAD report 1972 volume III 1973**

Box 14 1972-1976

Physical Description: 45 folders

- 102679693 **A survey of sparse matrix technology 1972**
- 102679691 **APL - IBM 135 microcode 1972**
- 102679692 **APLGOL - a structured programming language for APL 1972**
- 102679695 **An APL Emulator 1972**
- 102679696 **Effect of aerosols on the transfer of solar energy through realistic model atmospheres. Part I: non-absorbing aerosols 1972**
- 102679694 **MPL/135 - a programming language for system/370 model 135 microprogramming 1972**
- 102679698 **IBM installation at NOAA 1972-1973**
- 102679720 **System 801 principles of operation 1972-1976**
- 102679703 **APLGOL-2 a structured programming system for APL 1973**
- 102679705 **Activities report for 1973 1973**
- 102679701 **An analysis of the "return on investment" for the domestic IBM scientific centers 1973**
- 102679704 **Computers in meteorology: Poona, India 1973**
- 102679702 **Memos dealing with education announcements, management services, marketing, and weekly reviews 1973**
- 102679697 **YAQUI: an arbitrary Lagrangian-Eulerian computer program for fluid flow at all speeds 1973**
- 102679709 **Information on data security and cryptography 1973-1974**
- 102679699 **Papers on computer languages 1973-1988**
- 102679700 **History of IBM Scientific Centers 1973-1992**
- 102679710 **A study of Climatological research as it pertains to intelligence problems 1974**
- 102679711 **APLGOL a structured programming language for APL 1974**
- 102679712 **APLGOL programming language information 1974**
- 102679713 **Application development discipline (ADD) functional specifications 1974**
- 102679708 **Articles and reports on IBM competitors Amdahl and Hitachi/Fujitsu 1974**
- 102679707 **IBM Future System (FS) project 1974**
- 102679714 **IBM System/360 and System/270 FORTRAN IV language 1974**
- 102679715 **Kolsky deposition for IBM antitrust case 1974**
- 102679717 **Numerical solution of the Vlasov equation with the accurate space derivative method 1974**
- 102679716 **System Performance Map 1974**
- 102679706 **System Performance Map 1974**
- 102679718 **Triannual activities report 1974**
- 102679732 **1975 Annual Report 1975**
- 102679729 **Abstracts of Houston scientific center reports 1975**
- 102679727 **Abstracts of IBM confidential and IBM internal use only Palo Alto scientific center reports 1975**
- 102679728 **An empirical study of Apl programs 1975**
- 102679723 **CRAY-1 computer 1975**
- 102679719 **Clippings about Amdahl Corporation 1975**
- 102679721 **Global weather modeling with vector spherical harmonics final report 1975**
- 102635674 **High performance packaging systems past and present: an overview 1975**
- 102679731 **Memoria 75 1975**
- 102679724 **Note on a theory of notation for finite difference calculations 1975**
- 102679726 **The APL Assist 1975**
- 102679725 **The vectran language: an experimental language for vector/matrix array processing 1975**
- 102679730 **Time-difference schemes and transform methods 1975**
- 102679722 **Trends and developments in computer/telecommunications technologies 1975**
- 102679734 **A fast assembly technique using APL 1976**
- 102679733 **IBM systems research institute course listing 1976**

Box 15 1976-1980**Physical Description:** 45 folders

- 102679735 **Abstracts of Philadelphia scientific center reports 1976**
- 102679742 **A symposium on microprocessors, microcomputers & large scale integration: Perspectives on the wave of the present 1977**
- 102679743 **APLGOL: a structured programming system for VSAPL 1977**
- 102679748 **Abstracts of Israel scientific center technical reports 1977**
- 102679738 **High speed computer application: The use of APL as a problem formulation language, The analysis of a numerical weather model 1977**
- 102679739 **History and current status of IBM machines/Asynchronous vector processors 1977**
- 102679741 **IBM position statements from the IBM Speakers Bureau 1977**
- 102679750 **Large scientific problems vector processing 1977**
- 102679744 **Microcoding APL: the system/370 model-135 APL assist 1977**
- 102679740 **Optimization guide for programs compiles under IBM Fortran H (OPT = 2) 1977**
- 102679751 **Overview of IBM's data processing support of scientific activities 1977**
- 102679736 **Past and future trends in computing 1977**
- 102679745 **Stability of difference equations and numerical solutions of differential equations 1977**
- 102679746 **The IBM Israel scientific center 1977**
- 102679737 **The history and current status of IBM machines 1977**
- 102679749 **Tokyo scientific center annual summary report on 1977 1977**
- 102679761 **Array theory/370 1978**
- 102679759 **Behavioral studies of the programming process 1978**
- 102679752 **Climatology study 1978**
- 102679753 **Computing at LASL in the 1940s and 1950s 1978**
- 102679758 **Contouring methods and applications: Introduction and overview 1978**
- 102679767 **Extensive datasets of the diffuse radiation in realistic atmospheric models with aerosols and common absorbing gases 1978**
- 102679756 **Fortran compilation of the "18 Livermore kernels", comparing Fortran H extended optimization enhancement 1978**
- 102679760 **On the allocation of processes in distributed computing systems 1978**
- 102679555 **Papers dealing with the APL language 1978**
- 102679762 **Project Descriptions 1978**
- 102679755 **Recent developments in the sesame equation-of-state library 1978**
- 102679766 **Short-term real-time control of air pollution episodes in Venice 1978**
- 102679764 **Stephen W. Dunwell testimony from IBM antitrust case (1978-12-12) 1978**
- 102679765 **Stephen W. Dunwell testimony from IBM antitrust case (1978-12-13) 1978**
- 102679763 **Stephen W. Dunwell testimony from IBM antitrust case (1978-12-14) 1978**
- 102679754 **Surface instabilities under shock-wave loading 1978**
- 102679747 **The APL handbook of techniques 1978**
- 102679768 **The Fortran H extended optimization enhancement 1978**
- 102679757 **Various IBM scientific reports 1978**
- 102679774 **Abstracts of Cambridge scientific center reports 1979**
- 102679775 **Abstracts of Los Angeles scientific center reports 1979**
- 102679773 **An integral equation arising in a convective heat (mass) transfer problem through a boundary layer 1979**
- 102679769 **IBM history lectures 1979 1979**
- 102679771 **Reviews of the Heidelberg and Paris scientific centers for the scientific center strategy board 1979**
- 102679776 **Simulation colorimetry of the earth-atmosphere system 1979**
- 102679770 **The ENIAC weather prediction computations of 1950-51. The gateway to numerical weather prediction Redone in IBM APL in 1978 1979**
- 102679777 **The design of matrix algorithms for Fortran and virtual storage 1979**
- 102679772 **VSAPL Proposal 1979**
- 102679778 **AgRISTARS Activities 1980**

Box 16 1971-1983

Physical Description: 44 folders

- 102679779 Reports on the European scientific centers 1971-1982
- 102679784 A real-time air quality monitoring system for the distributed sensor subsystem 1980
- 102679785 Abstracts of Palo Alto scientific center reports 1980
- 102679782 Effect of atmospheric conditions on remote sensing of a surface nonhomogeneity 1980
- 102679783 Transfer of visible radiation in the atmosphere 1980
- 102679781 Various articles on the atmosphere 1980-1981
- 102679780 IBM corporate news bulletins 1980-1988 1980-1988
- 102679791 1980 annual report of the Palo Alto scientific center 1981
- 102679792 1981 annual report of the Palo Alto scientific center 1981
- 102679796 Activities of the PASC digital image laboratory 1981
- 102679794 An experimental digital image manipulation, analysis and processing system (DIMAPS) 1981
- 102679787 Chinese scientists visit 1981
- 102679789 Digital Image Processing 1981
- 102679793 Effect of terrain orientation and solar position on satellite-level luminance observations 1981
- 102679795 IBM contributions to digital image processing 1981
- 102679786 Interactive computing and its value to IBM scientists and engineers 1981
- 102679790 N-dimensional graphics, Part I - lines and hyperplanes 1981
- 102679788 Papers relating to Paul Friedl, the IBM PC (SCAMP), and Psi-net 1981
- 102679798 Various articles on digital image processing 1981
- 102679797 White paper on digital image processing 1981
- 102679812 1982 annual report of the Los Angeles scientific center 1982
- 102679816 A class of numerical methods for the computation of Pythagorean sums 1982
- 102679815 A spherical harmonics solution to the standard problem in radiative transfer 1982
- 102679802 Articles covering the howling dog theory, a NASA workshop, a Fortran environment, and some computed functions 1982
- 102679803 Compiler Performance Evaluation 1982
- 102679813 DIMAPS-II: DIMAPS for IBM 7350 1982
- 102679817 DIMAPSAR 1982
- 102679818 Evaluation of remote sensing and digital image processing for geologic and engineering applications 1982
- 102679819 Evaluation of remote sensing and digital image processing for geologic and engineering applications 1982
- 102679820 FY 1982 AgRISTARS research report 1982
- 102679804 Fortran interactive debug for CMS and TSO guide and reference 1982
- 102679801 IBM 704 Fortran Manuals 1982
- 102679799 IBM 7350 image processing system 1982
- 102679821 IBM 7350 image processing system presentation 1982
- 102679807 IBM 7350 reports and articles 1982
- 102679810 IBM Fortran overview, portability and conversion 1982
- 102679800 IBM PC information 1982
- 102679814 Importance of higher order components to multispectral classification 1982
- 102679806 Interactive Geometric correction 1982
- 102679811 Investigation of large systems effects in MVS 1982
- 102679808 Report of the panel on large scale computing in science and engineering 1982
- 102679805 Reservoir Simulation workshop 1982
- 102679809 VS Fortran application programming: library reference 1982
- 102679822 Ten Meter Telescope (Keck) 1983

Box 17 1983-1985

Physical Description: 38 folders

- 102679828 **1982 Annual Report of the Palo Alto scientific center 1983**
- 102679836 **1983 activity report 1983**
- 102679832 **AOGC/IBM joint image processing software development project "DIMAPSAR" final report 1983**
- 102679830 **Acoustic emission from foreshocks and secular strain changes prior to earthquakes 1983**
- 102679831 **DIMAPSAR - an interactive image interpretation system for petroleum minerals exploration 1983**
- 102679829 **Evaluation of remote sensing and digital image processing for geologic and engineering applications 1983**
- 102679834 **FY 1983 AgRISTARS research report 1983**
- 102679826 **IBM Basic language general info 1983**
- 102679825 **IBM Personal Computer - programming notes 1983**
- 102679837 **IBM scientific centers brochures 1983**
- 102679833 **Landsat-4 scientific characterization early results symposium 1983**
- 102679835 **Map and Image Processing System 1983**
- 102679840 **Palo Alto plan for a vectorizing Fortran compiler 1983**
- 102679823 **Ten Meter Telescope (Keck) 1983**
- 102679827 **The analogy between NMR and satellite imaging: multispectral analysis and computer graphics 1983**
- 102679824 **Various memos and notes on image processing on the Personal Computer 1983**
- 102679839 **Vectorized Monte Carlo methods for reactor lattice analysis 1983**
- 102679838 **Writing Optimizable Fortran 1983**
- 102679849 **1983 annual report of the Palo Alto scientific center 1984**
- 102679848 **1984 annual report of the Los Angeles scientific center 1984**
- 102679842 **Articles on various computing topics 1984**
- 102679847 **Digital Image demo on IBM PC 1984**
- 102679853 **Efficient implementation of the fuzzy C-means clustering algorithm 1984**
- 102679846 **Image Texture lectures 1984**
- 102679854 **Interactive geometric correction 1984**
- 102679851 **Migration of Seismic data 1984**
- 102679852 **Multispectral classifications using simulated image data modified with several different procedures 1984**
- 102679850 **Reduction of random noise from multiband image data using phase relationships among their fourier coefficients 1984**
- 102679843 **Reviews of the Cairo and Kuwait scientific centers for the scientific center strategy board 1984**
- 102679844 **Reviews of the Heidelberg and Paris scientific centers for the scientific center strategy board 1984**
- 102679841 **Space Telescope (Hubble) 1984**
- 102679855 **Testing the DACU as a channel attached PC 1984**
- 102679856 **User's guide for the DIMAPSAR registration program 1984**
- 102679845 **Various articles on image processing 1984**
- 102679862 **Introduction to APL2 1985**
- 102679859 **Reviews of the Haifa, Madrid, and Winchester scientific centers for the scientific center strategy board 1985**
- 102679860 **Reviews of the Rome and Pisa scientific centers for the scientific center strategy board 1985**
- 102679861 **Various articles on digital imaging 1985**

Box 18 1985-1987

Physical Description: 45 folders

- 102679866 1984 annual report of the Palo Alto scientific center 1985
- 102679865 1985 annual report of the Cambridge scientific center 1985
- 102679871 An improved parallel Jacobi method for diagonalizing a symmetric matrix 1985
- 102679867 Applications of artificial intelligence II 1985
- 102679874 Computer engineering at the University of California, Santa Cruz (UCSC) 1985
- 102679872 Digital image processing emphasizing personal computers 1985
- 102679875 Engineering and computer science at the University of California, Santa Cruz (UCSC) 1985
- 102679869 How to write good vectorizable Fortran 1985
- 102679864 Palo Alto center telephone directory 1985
- 102679868 Segmentation of thematic mapper image data using fuzzy c-means clustering 1985
- 102679873 University of California, Santa Cruz (UCSC)-IBM Joint Study 1985
- 102679876 Virtual attached processors for sci/engr computation 1985
- 102679870 What you don't know can hurt you or machine organization can affect performance 1985
- 102679892 A construction kit for interactive graphics applications 1986
- 102663150 A new implementation of the Skew-T, Log P diagram and cross-sectional analysis 1986
- 102679886 ACT-1: a conferencing tool for the IBM PC 1986
- 102679890 An incidence-matrix-driven panel system for the IBM PC 1986
- 102679893 Camera and frame grabber product information 1986
- 102679884 Classification experiments on Landsat-4 multispectral scanner and thematic mapper sensor data 1986
- 102679882 Computer image processing and display 1986
- 102679879 Digital image processing class 1986
- 102679880 IBM 3090 vector facility simulator program description/operations manual 1986
- 102679878 IBM System/370 vector operations 1986
- 102679881 Images: technologies, applications, processing and systems 1986
- 102679887 Interactive image analysis with a VM parallel processing system 1986
- 102679888 Introduction to vectorizing techniques on the IBM 3090 vector facility 1986
- 102679891 On matrix bidiagonalization and its application to the compression of large digital images 1986
- 102679883 On matrix bidiagonalization and its application to the compression of large digital images (dissertation) 1986
- 102679889 Programming for parallelism 1986
- 102679885 Technology in the 1990s 1986
- 102679877 Various reports on computer programming 1986
- 102679556 Vectorizing Fortran Compilers 1986
- 102679901 1986 annual report of the Cambridge scientific center 1987
- 102679902 1986 annual report of the Palo Alto scientific center 1987
- 102679894 A realistic model of refraction for computer graphics (thesis) 1987
- 102679899 Exploiting the IBM 3090 vector facility in image processing applications 1987
- 102679898 Further comments on a model for parallel processing 1987
- 102679897 Geographic information systems - an introduction 1987
- 102679906 Image Science and Applications 1987
- 102679905 Image engineering: the technologies and applications of contemporary image processing 1987
- 102679903 Knowledge representation networks (KRN): processing knowledge through flow of activation 1987
- 102679900 Papers on APL2 and Q'Nial 1987
- 102679896 Texture analysis in digital images 1987
- 102679904 The partition method for solving tridiagonal equations on multiprocessor computers 1987
- 102679895 Topics in Super Computing 1987

Box 19 1987-1993

Physical Description: 55 folders

- 102679908 **A survey of debugging tools for concurrent programs 1987**
- 102679907 **University of California, Santa Cruz (UCSC)-IBM Joint Study quarterly reports 1987**
- 102663190 **1987 annual report of the Cambridge scientific center 1988**
- 102663191 **1988 annual report of the Los Angeles scientific center 1988**
- 102663182 **A comparison of some dialects of parallel Fortran 1988**
- 102663188 **A numerically intensive computing environment: IBM 3090 and th PS/2 model 80 1988**
- 102663186 **A variable order Runge-Kutta method for initial value problems with rapidly varying right hand sides 1988**
- 102663181 **A version of EISPACK for the IBM 3090VF 1988**
- 102663194 **Computer Design class 1988**
- 102663192 **Descriptions of numerically-intensive computer applications at UCSC 1988**
- 102663193 **European networking center annual report 1987 1988**
- 102663179 **Image science and application workstation (ISAW 1.7) user's guide 1988**
- 102663180 **Interactive computations and display of characteristics of the radiation scattered by a sphere: a demonstration for PS/2 model 80 1988**
- 102663178 **Nuclear information handbook and other papers on nuclear policy 1988**
- 102663187 **On block householder algorithms 1988**
- 102663183 **On the solution of many small systems of linear equations with a vector computer 1988**
- 102663184 **Striped I/O for Fortran 1988**
- 102663185 **Synchronization and load unbalance effects of an iterative process on large scale multiprocessors 1988**
- 102663189 **The electron-phonon interaction and melting of metals 1988**
- 102687701 **1989 annual report of the Cambridge scientific center 1989**
- 102687692 **European networking center annual report 1988 1989**
- 102687699 **European networking center annual report 1989 1989**
- 102687694 **FL language manual, parts 1 and 2 1989**
- 102687697 **Matrix computations with Fortran and the IBM 3090-VF 1989**
- 102687698 **Parallel algorithms for computer graphics 1989**
- 102687693 **Program transformation in the presence of errors 1989**
- 102687700 **Selected papers on topics in super computing 1989**
- 102636030 **To the heart of the matter - The superconducting super collider 1989**
- 102636029 **Various articles on running parallel programs and debugging concurrent programs 1989**
- 102687695 **Visualization and analysis of molecular structures at an IBM 6090 graphics display station 1989**
- 102687696 **Yet another metric of parallel performance 1989**
- 102687710 **1989 annual report of the Palo Alto scientific center 1990**
- 102687709 **1990 annual report cambridge scientific center 1990**
- 102687704 **AIX/360 LAN Performance 1990**
- 102687707 **Distributed visualization design guide series no. 1 performance model reference 1990**
- 102687711 **Faculty handbook from the Baskin center for computer engineering and information sciences 1990**
- 102687705 **Further applications of the overhead model for parallel systems 1990**
- 102687712 **Parallelizing the Fast Fourier Transform 1990**
- 102687708 **Super Computer references 1990**
- 102687706 **The Global Computer 1990**
- 102687702 **The STRETCH Era 1990**
- 102636031 **User's guide for the IBM 3117 scanner and personal computer image documentation utility (PC/IDU) 1990**
- 102687703 **Various articles on topics in super computing 1990**
- 102687717 **1990 annual report of the Palo Alto scientific center 1991**
- 102687718 **1991 annual report of the Palo Alto scientific center 1991**
- 102687713 **APL2 programming: APL2 for the IBM PC user's guide version 1.02 1991**
- 102687715 **Atmospheric gravity waves generated by air flow over mountains 1991**
- 102687714 **Domino revisited 1991**
- 102687719 **Original REINAS proposal 1991**

102687716 Selected papers on topics in super computing 1991
102687720 A history of personal computing (study) 1992
102687722 REINAS Project Review 1992
102687721 University of California, Santa Cruz (UCSC)-IBM Joint Study quarterly reports 1992
102687723 Various articles relating to the REINAS project 1992
102687724 Computer history lecture 1993

Box 20 1993-1998

Physical Description: 14 folders

102679995 **Computer Time Line 1993**

102687727 **REINAS: real-time environmental information network and analysis system: Phase II requirements definition 1993**

102687726 **REINAS: real-time environmental information network and analysis system: concept statement 1993**

102687725 **User's guide for a three-dimensional, primitive equation, numerical ocean model 1993**

102687728 **Comparative Cosmology (dissertation) 1994**

102687730 **REINAS: real-time environmental information network and analysis system: Phase III - systems design 1994**

102687731 **REINAS: real-time environmental information network and analysis system: Phase IV .1-experimentation 1994**

102687729 **The GFDL modular ocean model 1994**

102687736 **REINAS Systems software manual 1995**

102687735 **REINAS system installation and internals 1995**

102687732 **REINAS tech notes and annual report 1995**

102687733 **REINAS: real-time environmental information network and analysis system: Phase IV.final - experimentation 1995**

102687734 **progress report: networking research in REINAS 1995**

102659373 **Hiding memory latency via temporal restructuring (dissertation) 1998**

Oversized **Box 21 1948-1971**

Physical Description: 14 folders

- 102663094 **Tables on punched cards available at the Institute for Numerical Analysis, UCLA October 1948**
- 102634669 **10th anniv. of Trinity 1955 printout from Los Alamos Scientific Laboratory open house July 1955**
- 102634001 **Sigma timing chart November 15 1958**
- 102679296 **Occupancy blueprint December 16 1963**
- 102679994 **IBM APL promotional wheel 1971**
- 102636218 **"Rug" problem**
- 102679486 **305 RAMAC manufacturing requirements generation**
- 102634666 **701 calculator form and "Characteristics of the Small Computers"**
- 102634663 **Blank 701 calculator programming forms**
- 102635561 **Calculations**
- 102634710 **Control panel diagrams and check value output**
- 102663104 **Electronic calculating punch**
- 102663096 **P04 - control panel**
- 102634667 **Simulation equations**