

# Computing Centre fonds

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Last revised January 2018

**\*\*\* Institutional records -- researcher access subject to review \*\*\***

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# Fonds Description

**Computing Centre fonds.** - 1954-1996.

8.10m of textual records.

70 photographs.

Cartographic material.

## **Administrative History**

In the autumn of 1955, President Norman Mackenzie appointed a Committee on Automation to investigate "the University's total interest in computers and automation in general". The Committee consisted of approximately 20 members representing most of the research interests on campus and was chaired by E.D. McPhee. At the Committee's first meeting on November 16, 1955, four sub-committees were formed: Departmental Interests and Specifications; Training and Curriculum: Type Equipment; and Library Needs and Resources. The Committee held several meetings and prepared a number of reports on various facets of computerization.

The University of British Columbia Computing Centre was established in the spring of 1957 with the installation of the ALWWAC III-E. Because of the ever-increasing demand for memory and speed, the Computing Centre eventually replaced the ALWAC with the IBM 1620 in 1961. The IBM 7040 was introduced in 1964 and IBM 360/67 and IBM 7044 was introduced in 1967. Over the years the Centre has continually upgraded its facilities to provide academic and administrative computing services to the University. The Computing Centre has also had several directors since its inception: J.M Kennedy, A.G. Fowler, and J.L. Leigh. In the 1990's, the Computing Centre went through many major changes both structurally and functionally.

## **Scope and Content**

The fonds consists of records that document the origins and establishment of the UBC Computing Centre as well as financial, technical, organizational, and administrative records. It includes the CIPS Sous-fonds, and twelve series: Early Computing Centre Series; Pre-1969 Series; 1969-1978 Series; Systems Hardware Operations Committee Series (SHOC); Software Committee Meetings; Manuals and Technical Information Series; UBC Computing Centre Newsletter Series; 1979-1989 Alphabetical Series; 1973-1996 Chronological Series; UBC Computing Centre Documentation Series; Miscellaneous Series; and Photograph Series.

## **Notes**

Fonds consists of institutional records – access requests must be reviewed by the University's FOIPOP Coordinator.

File list available.

Title based on the contents of the fonds.

Last two items in Box 24 were donated by Ed Chow in 2015. The newsletters in Box 30 were acquired from Jenifer Monger at Rensselaer Polytechnic Institute in New York. The remainder were acquired from the Computing Centre and UBC IT in various accruals.

## Sous-fonds Description

**Canadian Information Processing Society (CIPS) Sous-fonds.** - 1962-1978.

18.5cm of textual records.

The Canadian Information Processing Society is a national organization that has individual sections in major cities throughout the country. Each section has its own executive and elected members. CIPS' mission is to define and foster the IT profession, to encourage and support the IT practitioner, and to advance the theory and practice of IT, while safeguarding the public interest. Prior to 1965, CIPS was known as The Computing and Data Processing Society of Canada. The name was changed to The Computer Society of Canada. By 1968, The name had been officially changed to CIPS. J.M. Kennedy, the director of the Computing Centre at UBC from 1966 to 1979, was the president of CIPS from 1971 to 1972. The sous-fonds also includes materials related to the Northwest CIPS 1978 Conference, apparently collected by Jack Leigh, of the UBC Computing Centre, as well as proceedings from the North West '78 Conference.

The sous-fonds consists of constitutional amendments, board meetings, executive meeting file and correspondence made or received by CIPS, and some miscellaneous records that were created prior to the name changes. However, the majority of records originated from the time that Kennedy was the president of CIPS.

## Series Descriptions

### **Early Computing Centre Series.** - 1954-1979.

80cm of textual records.

25 photographs.

The series consists of records that document the origins and establishment of the UBC Computing Centre. Most of the records, however, document the historical evolution of the administration and the operation of the Centre between the time of its opening and 1970. It includes information from the Automation Committee and material on the installation of the Centre's first computer, the ALWAC III-E.

Arrangement is based on the reconstruction of a file guide that was found among the records.

### **Pre-1969 Series.** - 1957-1963.

15cm of textual records.

The series consists of various records that were created before 1969. It includes Computing Centre Committee Meeting Minutes, a Computing Centre Report, Budget Records, and a Progress Report.

### **1969-1978 Series.** - 1969-1978.

1.90m of textual records.

The series consists of records pertaining to budgeting, committees, minutes of meetings, policies, major projects, and the Computing Centre's relationship with IBM. Subseries are: Correspondence, Financial, Internal Affairs, University Affairs, Committees, Academic Bodies, and Standing Committees. The Academic Bodies Subseries is comprised only of records of the Computer Science Department.

This series was previously arranged into the existing subseries by the Computing Centre as part of its filing system.

### **Systems Hardware Operations Committee (SHOC) Series.** - 1972-1989.

30cm of textual records.

The series consists of minutes of SHOC meetings. Files from prior to 1975 contain more detail and various attachments.

### **Software Committee Series.** - 1978-1984.

20cm of textual records.

The series consists of minutes of Software Committee meetings. Files prior to 1981 are detailed and contain various attachments.

**Manuals and Technical Information Series.** - [1957-1980].

16cm of textual records.

The series consists of manuals and other technical information that has been important for reference and use in the Computing Centre. This includes a manual for the IBM 7040/7044, CAI PLANIT, PLANIT Language Reference Manual, IBM 1620 information, MTS Accounting, and information about the 360/67, WATFOR and WATFIV software systems.

**UBC Computing Centre Newsletter Series.** - 1968-1986, 1989-92.

14cm of textual records.

The series consists of newsletters created by the Computing Centre that provide important information and major issues germane to the Computing Centre and its users at the time of publication. This series is not representative of all years between 1968 and 1992.

**1979-1989 Alphabetical Series.** - 1979-1989.

1.11m of textual records.

The series consists of reports, budgets, minutes of committee meetings, technical information, and other administrative and operational records of the computing centre. These records were apparently made or received by Jack L. Leigh who became the Director of the Computing Centre in 1987.

Arrangement of this series is roughly alphabetical and based on two partial file lists found within the records.

**1973-1996 Chronological Series.** - 1973-1996.

80cm of textual records and cartographic material.

The series consists of reports, budgets, minutes of committee meetings, technical information and other administrative and operational records of the computing centre. These records were made or received by Jack L. Leigh who became the Director of the Computing Centre in 1987. This series of records appears to be a continuation of the previous series; however, it is a separate series by virtue of its arrangement.

Arrangement of this series is chronological.

**UBC Computing Centre Documentation Series** - 1965-1991.

1.95 m of textual records.

The series consists of documents produced by the UBC Computing Centre. The series includes a number of guides produced by the UBC Computing Centre from 1972-1990 which offer both a keyword index and a bibliography of the documents produced by the UBC Computing Centre. The series also includes a number of technical notes that amended the documentation produced by the UBC Computing Centre.

Arrangement of this series begins with UBC Computing Centre Documentation Guides and is subsequently alphabetically arranged. The arrangement was reconstructed by the filing system established by the UBC Computing Centre.

**Miscellaneous Series** - 1972-1989.

40.5cm of textual records.

The series consists mainly of miscellaneous reports, projects, minutes, course support documents and manuals used or produced by the UBC Computing Centre. It includes subject files collected or retained by Jack Leigh.

Arrangement of this series follows the subject arrangement created or implemented by Jack Leigh of the UBC Computing Centre.

**Photograph Series.** - [n.d.].

45 b&w photographs of various sizes.

The series consists of various photographs of the Computing Centre and related individuals. The majority of photographs are situated in the Computing Centre; however, some depict individuals outdoors. In addition to individuals and the Centre, itself, some photographs are of computers, printers, processors, and other equipment. These photographs appear to have been used in a display because several of them have been cropped.



# File List

## BOX 1

### EARLY COMPUTING CENTRE SERIES

- 1-1 File Guide (1959)
- 1-2 A.C.M. (Association for Computing Machinery) - Correspondence (1957-1977), 9 items.
- 1-3 Acknowledgements - Correspondence, copies of theses, etc. (1958-1960), 3 items. Correspondence, notes
- 1-4 ALWAC Corporation - Contracts (1958, n.d.), 5 items. Contracts, invoices
- 1-5 ALWAC Corporation - Correspondence (1956-1961, n.d.), 1.75 cm
- 1-6 ALWAC Corporation - Flexowriters (1957-1958, n.d.), 13 items. Correspondence
- 1-7 ALWAC Corporation - High-speed Reader (1957-1960), 19 items. Correspondence
- 1-8 ALWAC Corporation - Technical Informtion (1956-1957, n.d.), .5 cm.
- 1-9 ALWAC Corporations - 800 - Technical Information (n.d.), 5 items.
- 1-10 ALWAC Owners - ADB (Sweden) plus Autostatik (1957-1961), .25 cm. Correspondence.
- 1-11 ALWAC Owners - Oregon State College (Lonseth, Dubinsky) (1957-1962), 1.5 cm. Correspondence.
- 1-12 ALWAC Owners - User's Association (1957-1962, n.d.), 1.5 cm. Correspondence, newsletters.
- 1-13 Automation Committee [Historical Material] - Minutes, reports (1955-1957, n.d.), .25 cm.
- 1-14/15 Automation Committee - Correspondence, recommendations, etc. (1955-1957, n.d.), 3 cm.
- 1-16 Budget - Preliminary budgets (1956-1960, n.d.), 14 items.
- 1-17 Budget - Estimates (1955-1976), 1.25 cm.

## BOX 2

- 2-1 Building and Grounds (1959-1968), .25 cm. Correspondence, estimate forms.
- 2-2 Computing and data Processing Society of Canada (1957-1960, n.d.), .5 cm. Correspondence, minutes.
- 2-3 Computing Centre Committee (1959-1964), .5 cm. Minutes
- 2-4/5 Correspondence - General [Administration - Computing Centre, 1954-1965], (1954, 1957-1978), 2 cm.
- 2-6 Courses (1958-1978, n.d.), .5 cm. Lists of students, announcements, lectures.

- 2-7 Demonstrations (n.d.), 1 item. Computing Centre tour.
- 2-8 Grants (1960-1965), .25 cm. Correspondence, forms.
- 2-9 IBM (1) (1976/77), 1.75 cm. Brochures
- 2-10 IBM (2) (1968-1971), 1.5 cm. Papers
- 2-11 Miscellaneous - Odds and Ends (1957-1965, n.d.), 1 cm. Notices, memoranda, photographs.
- 2-12 Monthly Reports (1958-1964, n.d.), .5 cm.
- 2-13 Monthly Reports - Summaries (1958/59), 2 items.

BOX 3

- 3-1/6 Monthly Reports - Daily Logs (1957-1962), 14 cm.

BOX 4

- 4-1/5 Monthly Reports - Daily Schedules (1957-1960), 14 cm.

BOX 5

- 5-1 Monthly Reports - Computer reservations and uses (1957), 1.5 cm.
- 5-2/5 Monthly Reports - Distribution of machine time 91959-1960), 3 cm.
- 5-6 Monthly Reports - Drafts (1959-1960, n.d.), 16 items.
- 5-7 Non-University Clientele - Fisheries Research Board - Technological Station [UBC Campus] (1960), 2 items.
- 5-8 Non-University Clientele - A.B. Sanderson and Co. Ltd. (1957-1959), 13 items. Correspondence, accounts.
- 5-9 Non-University Clientele - Surveys and Mapping Branch [Prov. Gov't] (1957/58), 5 items. Correspondence
- 5-10 Non-University Clientele - Underhill and Underhill (1958/59), 9 items. Correspondence
- 5-11 Personnel - Appointment Notices (1957-1963), .5 cm.
- 5-12 Personnel - Correspondence 91957-1969, n.d.), .5 cm.
- 5-13 Photographs (n.d.), 25 items.
- 5-14 Press Clippings (163-1969, n.d.), .25 cm.
- 5-15 S.I.A.M. (Science and Industry Advance with Mathematics) - Correspondence (1957), 3 items.
- 5-16 Start of the Computer Science Department (1966-1968), .25 cm. Correspondence, reports.
- 5-17 Statistical Centre for the Social Sciences (project) (1963/64), 4 items. Reports, correspondence.

5-18 UBC Computing Centre User's Manual (1967, 1979), 2 items

BOX 6

6-1 ALWAC Sub-routines specifications (1957-1960), 5.5 cm.

BOX 7

1969-1978 SERIES

A. Correspondence

- 7-1 A.2 Correspondence IBM 1960-1963.
- 7-2 A.2 IBM Canad Ltd. 1972-1973.
- 7-3 A.2a IBM 1974-1975.
- 7-4 A.2a IBM Fellowship 1972-1973.
- 7-5 IBM/UBC Meetings 1972-1974.
- 7-6 IBM Monthly Meeting File [1974].
- 7-7 A.2a IBM Minutes of Monthly Meetings 1974-1975.
- 7-6 A.3 IBM 1973-1974.
- 7-7 A.4 IBM 1969-1970.
- 7-8 A.4 IBM 1970-1971.
- 7-9 A.4 IBM Fellowdhip 1973-1974.
- 7-10 A.4a IBM Computing Centre Grant 1970-1971.
- 7-11 IBM Contracts 1985.
- 7-12 Canuet Design Workshop 1973.
- 7-12.1 Correspondence Canuet 1974.
- 7-12.2 A.6 Canuet - Steering Committee 1972-1973.
- 7-12.3 A.6a Canuet - Network Design 1972-1973.
- 7-12.4 Canuet Network Access Faciltlity 1973.
- 7-13 A.6b Canuet Grant 1972-1973.
- 7-14 A.6c Canuet Network Traffic Study 1972-1973.
- 7-15 A.6d Canuet General 1972-1973.
- 7-15.1 A.7 Canuet - Prior to August 1971.
- 7.15.2 A.7 Research Administration - Spratley 1974-1975.
- 7.15.3 A.7a Canuet - Minutes of Steering Committee 1971-1972.
- 7.15.4 A.7b Canuet Correspondence 1971-1972.
- 7-16 A.8 Canuet General 1973-1974.
- 7-17 A.9 Research Administration R.D. Spratley 1972-1973.

7-18 A.9 Canuet 1973-1974.

#### C. Financial

7-18 C.2 Budget 1969-1970, 1970-1971.  
7-19 C.2 Budget 1970-1971, 1971-1972.  
7-20 C.3 NRC - Block Grant 1969-1970.  
7-21 C.3 NRC - Block Grant 1970-1971.  
7-22 C.3 Budget 1974-1975.  
7-23 C.4 NRC Operating Grant 1970-1971.  
7-24 C.5 IBM Contracts 1972-1973.  
7-25 C.5 IBM Contracts 1973-1974.  
7-26 C.5 IBM Contracts 1974-1975.  
7-27 C.6 Budgets Previous Years 1965-?  
7-28 1977 Budget  
7-29 Shaw/White [proposed computer replacement] 1978.  
7-30 C.6 Contracts IBM 1977-78.

#### BOX 8

#### D. Computing Centre Internal Affairs

8-1 D.2 C.C. Consumption of CC\$ 1972-1973.  
8-2 D.2 C.C. Consumption of CC\$ 1973-1974.  
8-3 D.2 C.C. Consumption of CC\$ 1974-1975.  
8-4 D.2 C.C. Consumption of CC\$ 1977-1978.  
8-5 Senior Staff Meetings 1970.  
8-6 Senior Staff Meetings 1971.  
8-7 Senior Staff Meetings 1972.  
8-8 Senior Staff Meetings 1972-1973 (A).  
8-9 Senior Staff Meetings 1972-1973 (B).  
8-10 Senior Staff Meetings 1972-1973 (C).  
8-11 Senior Staff Meetings 1973-1974 (A).  
8-12 Senior Staff Meetings 1973-1974 (B).  
8-13 Senior Staff Meetings 1973-1974 (C).  
8-14 D.3 Senior Staff Meetings 1974-1975.  
8-15 D.3 Senior Staff Meetings 1977-1978 (A).  
8-16 Senior Staff Meetings 1977-1978 (B).  
8-17 Senior Staff Meetings 1977-1978 (C).  
8-18 D.6 Centre Space Priorities 1977-1978.

- 8-19 D.7 Systems and Operations Committee 1972-1973.
- 8-20 D.7 Space Priorities 1974-1975.
- 8-21 D.7 Major Projects [Priorities] 1977-1978.

## BOX 9

### E. University Affairs

- 9-1 E.1 Policy - General 1969-1970.
- 9-2 E.1 Policy - General 1970-1971.
- 9-3 E.2 Buildings and Space 1972-1973.
- 9-4 E.2 Buildings and Space 1973-1974.
- 9-5 Computing Centre Space Needs 1974.
- 9-6 E.5 Building and Space 1969-1970.
- 9-7 E.5 Building and Space 1970-1971.
- 9-8 Space 1985.
- 9-9 CC\$ 1970-1971.
- 9-10 CC\$ Requests 1971-1972.
- 9-11 E.5 Application for CC\$ 1972-1973.
- 9-12 E.5 Application for CC\$ 1973-1974.
- 9-13 E.5a Conversion of Hydraulics Laboratory 1971-?
- 9-14 E.5a Responses to Application for CC\$ 1973-1974.
- 9-15 E.6 Senior Staff Meetings 1970-1971.
- 9-16 E.6 Correspondence re. CC\$ 1973-1974.
- 9-17 E.7 Senior Staff Meetings 1969-1970.
- 9-18 E.7 Policy 1972-1973.
- 9-19 E.7 Policy 1973-1974.
- 9-20 E.8 CC\$ Budget 1970-1971.
- 9-20 Users Committee 1970.
- 9-22 E.8 Users Committee 1972-1973.
- 9-23 E.8 Users Committee 1973-1974.

## BOX 10

- 10-1 E.2 Buildings and Space 1974-1975.
- 10-2 E.4 Application for CC\$ 1974-1975.
- 10-3 E.5 Correspondence Re. CC\$ 1974-1975.
- 10-4 E.5 Correspondence Re. CC\$ 1977-1978.
- 10-5 E.6 Responses to Applications for CC\$ 1974-1975.
- 10-6 E.7 Policy 1974-1975.

- 10-7 E.7 Policy 1977-1978.
- 10-8 C.C. Users Committee 1967-1973.
- 10-9 C.C. Users Committee 1973-1978.
- 10-10 E.8 C.C. Users Committee 1974-1975.
- 10-11 E.8 C.C. Users Committee 1977-1978.
- 10-12 E.14 Pres. Advisory Committee on Information Systems 1977-1978.
- 10-13 E.15 Review of Computing Requirements 1977-1978.
- 10-14 E.16 The Agency 1977-1978.
- 10-15 Background on CC\$ Policy 1978.

#### F. Committees

- 10-16 F.1 NRC - Associate Committee on Computers 1969-1970.
- 10-17 F.4 360 Users Committee 1969-1970.
- 10-18 F.7 Advisory Committee on C.C. 1969-1970.
- 10-19 F.7 Advisory Committee on C.C. 1970-1971.
- 10-20 F.7a Advisory Committee - charging for computing services 1970.
- 10-21 F.9 Subcommittee on Computer Budgeting 1969-1970.
- 10-22 F.9 Subcommittee on Computer Budgeting 1970-1971.
- 10-23 F.15 NRC - Grant Selection committee for Computer Facilities 1969-1970
- 10-24 Advisory Committee on C.C. - Working Papers 1968.

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#### G. Academic Bodies

- 11-1 Staff meetings 1969.
- 11-2 Student - faculty meetings 1969.
- 11-3 Department of Computer Science 1969-1970.
- 11-4 G.1 Department of Computer Science 1973-1974.
- 11-5 Department of Computer Science 1973-1974.
- 11-6 Minutes - Computer Science Department 1973-1974.
- 11-7 G.1 Computer Science Department 1974-1975.
- 11-8 Computer Science Department 1977-1978.
- 11-9 G.1a Department Computer Science New Faculty 1974-1975.
- 11-10 G.1b Department Computer Science Promotions and Tenure 1974-1975.
- 11-11 G.2 Computer Science New Faculty 1977-1978.
- 11-12 G.2a Computer Science Department Minutes 1977-1978.

## H. Standing Committees

- 11-13 NSERC Computer Advisory Committee.
- 11-14 H.1 Advisory Committee on C.C. 1973-1974.
- 11-15 H.1 Advisory Committee on C.C. 1974-1975.
- 11-16 H.1 Advisory Committee on C.C. 1977-1978.
- 11-17 H.2 Dean's Subcommittee on Computer Budgeting 1977-1978.
- 11-18 H.6 Dean's Subcommittee on Computer Budgeting 1973-1974.

## BOX 12

### CANADIAN INFORMATION PROCESSING SOCIETY (CIPS) SOUS FONDS

- 12-1 Constitutional Amendments.
- 12-2 Board Meetings 1968-1969.
- 12-3 Board Meetings 1969-1970.
- 12-4 Board Meetings 1970-1971.
- 12-5 Board Meetings 1971-1972.
- 12-6 Accreditation 1971-1972.
- 12-7 Computing and Data Processing Society of Canada 1962-1963.
- 12-8 Executive Meeting File 1965.
- 12-9 Correspondence Executive.
- 12-10 Monthly Publication May 1970.

(continued)

### PRE-1969 SERIES

- 12-11 Progress Report March 1957-May 1959.
- 12-12 Computing Centre Committee [members, meetings, correspondence] 1959.
- 12-13 Computing Centre Committee 1959-1962.
- 12-14 Computing Centre Report October 1960.
- 12-15 Budget up to 1962-1963.

## BOX 13

### SYSTEMS HARDWARE OPERATIONS COMMITTEE (SHOC) SERIES

- 13-1 SHOC Meetings April-June 1972.
- 13-2 SHOC Meetings July-Dec 1972 (A).
- 13-3 SHOC Meetings July-Dec 1972 (B).
- 13-4 SHOC Meetings Jan-June 1973.
- 13-5 SHOC Meetings July-Dec 1973.
- 13-4 SHOC Meetings Jan-May 1974.
- 13-5 SHOC Meetings 1974.
- 13-6 SHOC Meetings 1975.
- 13-7 SHOC Meetings 1976-1977.
- 13-8 SHOC Meetings 1978-1979.
- 13-9 SHOC Meetings 1980-1982.
- 13-10 SHOC Meetings 1983-1985.
- 13-11 SHOC Meetings 1986-1987.

(continued)

### MANUALS AND TECHNICAL INFORMATION SERIES

- 13-12 1620 Users Group Newsletter.
- 13-13 IBM Main Equipment.
- 13-14 IBM Peripheral Equipment.
- 13-15 Optical Mark Reader.
- 13-16 360/67 Printers.
- 13-17 Search List Instruction.
- 13-18 PL360 Compiler.
- 13-19 GIS.
- 13-20 Software Systems 360/367.
- 13-21 Software Systems WATFOR and WATFIV.
- 13-22 MTS Accounting.
- 13-23 IBM 7040/7044 Manual (A).
- 13-24 IBM 7040/7044 Manual (B).
- 13-25 CAI PLANIT.
- 13-26 PLANIT Language Reference Manual.
- 13-27 ICU System Installation Manual and System Program Generator.



- 13-28 IBM 1620 - System Configuration  
Fortran II Specifications Symbolic Programming System
- 13-29 Miscellaneous Manuals 1971-1973.
- 13-30 Miscellaneous Manuals 1974-1976.

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#### SOFTWARE COMMITTEE SERIES

- 14-1 Software Committee Meetings 1978 (A).
- 14-2 Software Committee Meetings 1978 (B).
- 14-3 Software Committee Meetings 1979 (A).
- 14-4 Software Committee Meetings 1979 (B).
- 14-5 Software Committee Meetings 1979 (C).
- 14-6 Software Committee Meetings 1980 (A).
- 14-7 Software Committee Meetings 1980 (B).
- 14-8 Software Committee Meetings 1981.
- 14-9 Software Committee Meetings 1982.
- 14-10 Software Committee Meetings Dec 1982 - Dec 1983.
- 14-11 Software Committee Meetings 1983-1984.
- 14-12 Software Committee Meetings 1985-1986.

#### UBC COMPUTING CENTRE NEWSLETTER SERIES

- 14-13 UBC Computing Centre Newsletter Oct 1968 – Dec. 1970.
- 14-14 UBC Computing Centre Newsletter March 1971 – Dec. 1972.
- 14-15 UBC Computing Centre Newsletter Jan. 1973 – Dec. 1974.
- 14-16 UBC Computing Centre Newsletter Jan. 1975 – Dec. 1976.
- 14-17 UBC Computing Centre Newsletter Jan. 1977 – Dec. 1978
- 14-18 UBC Computing Centre Newsletter Jan 1979 - Mar 1981.
- 14-19 UBC Computing Centre Newsletter 1983-1984.
- 14-20 UBC Computing Centre Newsletter 1985 - July 1986.

(continued)

## BOX 15

### 1979-1989 ALPHABETICAL SERIES

- 15-1 AMDAHL 1979-1986.
- 15-2 ASPEN 1981-1984.
- 15-3 Audio/Visual Services 1981-1982.
- 15-4 Budget 1981-1982.
- 15-5 Budget 1982-1983.
- 15-6 Budget 1983-1984.
- 15-7 Budget 1984-1985.
- 15-8 Budget 1985-1986.
- 15-9 CC\$ 1981-1985.
- 15-10 Communications from Dec 1/83 1983-1986.
- 15-11 Communications from 1981 1981-1984.
- 15-12 Computer Science [information regarding relationship between Computing Centre and Computer Science Department] 1981-1986.

## BOX 16

- 16-1 Development projects 1981.
- 16-2 Director's Office 1987-1988.
- 16-3 Education Computing Committee 1986-1987.
- 16-4 Internal Audit 1979-1982.
- 16-5 ISC [Information Systems Committee] 1979-1980.
- 16-6 History - Computing Centre [1957-1986].
- 16-7 IBM/UBC Meetings 1979-1985.
- 16-8 Instructional System AMDAHL 470 v/6 1982-1983.
- 16-9 Finance Operations Centre Committee 1980-1982.
- 16-10 Operations System 1981-1984.
- 16-11 Physical Planning [includes blueprints] 1978-1982.
- 16-12 President's Permanent Committee 1979-1984.
- 16-13 Systems Group Reports 1979-1984.
- 16-14 UNIX [1980-1982].
- 16-15 Users Committee 1979-1987.

(Continued)

## BOX 17

### 1973-1996 CHRONOLOGICAL SERIES

- 17-1 Plans and Information for the Chilled Water System 1973.
- 17-2 MTS Workshop at UBC Computing Centre May 13-17, 1974.
- 17-3 BC Universities Network Feasibility Study 1976.
- 17-4 Organization of the Computing Centre [by Leigh] 1981.
- 17-5 IBM Reference Large Scale Computing Contracts and Correspondence 1982-1992 (A).
- 17-6 IBM Reference Large Scale Computing Contracts and Correspondence 1982-1992 (B).
- 17-7 IBM Reference Large Scale Computing Contracts and Correspondence 1982-1992 (C).
- 17-8 IBM Reference Large Scale Computing Contracts and Correspondence 1982-1992 (D).
- 17-9 Service Improvement Options 1984.
- 17-10 ISM 1984-1985.
- 17-11 Central Computing Systems Proposal 1985.
- 17-12 ISM Plan 1985.
- 17-13 MVS etc. 1985.
- 17-14 UBC Central Computing Systems - Requests for Proposals 1985.
- 17-15 Excellence Fund Proposals 1985-1986.
- 17-16 Budget 1986-1987.
- 17-17 CC Proposals for Campus Computing [draft] 1987.
- 17-18 Network Talks 1987.
- 17-19 Operating Budget 1987-1988.
- 17-20 Operating Budget 1988-1989.
- 17-21 Operating Budget 1989-1990.
- 17-22 UCS Talks [re. organization of centre] 1990.
- 17-23 Operating Budget 1990-1991.

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- 18-1 Report of the Task Force on Data Networking 1990-1992.
- 18-2 Task Force on Data Networking 1991.
- 18-3 IBM/UBC 1991-1992.
- 18-4 Operating Budget 1991-1992.
- 18-5 Connect 1991-1993.
- 18-6 IBM 3090/200 1991-1993.

- 18-7 Operational Services 1991-1994.
- 18-8 CA\*net 1992.
- 18-9 Proposals: Fibre and UNIX 1992.
- 18-10 SIS [Student Information System] Evaluation 1992.
- 18-11 IHRIS 1992-1993.
- 18-12 Operating Budget 1992-1993.
- 18-13 Connect 1991-1993.
- 18-14 Network Planning 1992-1994.
- 18-15 Review of UCS Technical Services 1993.
- 18-16 UCS Five Year Plan 1996.

BOX 19

SYSTEMS HARDWARE OPERATIONS COMMITTEE (SHOC) SERIES (continued)

- 19-1 SHOC Meetings April-Dec. 1972. [2 folders]
- 19-2 SHOC Meetings Jan. 1987-Nov. 1989. [2 folders]

CANADIAN INFORMATION PROCESSING SOCIETY (CIPS) SOUS FONDS  
(continued)

- 19-3 North West CIPS '76 ACM/CIPS Pacific Regional Symposium Proceedings 1976.
- 19-4 Northwest CIPS 1978 Conference 1977-1978. [2 folders]

1979-1989 ALPHABETICAL SERIES (continued)

- 19-5 [Partial list of files previously taped to file box from UBC Computing Centre N.D.]
- 19-6 Memo – Computer Charging Subcommittee of the Campus Advisory Board on Computing 1987.
- 19-7 Minutes – Bell Technical Services Oct 1985-Dec 1989. [2 folders]
- 19-8 Minutes – CC / Computer Science Liaison Committee Oct 1986.
- 19-9 Minutes – CC/ISM Aug 1988-Dec 1989.
- 19-10 Minutes – Campus Advisory Board on Computing March 1987-Nov. 1989
- 19-11 Minutes – Computer Products Advisory Committee Sept 1987-Feb 1988.
- 19-12 Minutes – Floating Point Systems Dec 1987-Feb 1989.

- 19-13 Minutes – IBM Aug 1988-Dec. 1989. [2 folders]
- 19-14 Minutes – Library / Computing Centre Sept 1986-Jan 1987.
- 19-15 Minutes – NAS Feb 1987-Nov 1989. [3 folders]
- 19-16 Minutes – President's Committee March 1985-Jan 1986.
- 19-17 Minutes – Supercomputer Subcommittee March 1987 – Oct 1987.
- 19-18 Minutes – Xerox Oct 1987-Dec 1987. [2 folders]

## BOX 20

- 20-1 Computing Centre Account Codes 1986-1989.
- 20-2 Computing Centre Bulletin Sept 1986-Dec 1989
- 20-3 Guide to Reviewers April 1988-June 1988.
- 20-4 Manual of Policies and Procedures July 1977-Aug 1989.
- 20-5 Operations Status Report May 1986-Jan 1989.
- 20-6 Telephone Analysis 1989.

## UBC COMPUTING CENTRE DOCUMENTATION SERIES

- 20-7 UBC Documentation - A Guide to Documentation Produced by the UBC Computing Centre 1972-1990. [4 folders]
- 20-8 DATA CELL - Preliminary Information on Using the Data Cell 1970.
- 20-9 UBC BMD05R - Polynomial Regression 1971-1978.
- 20-10 UBC BMD06M - Canonical Analysis 1971-1977.
- 20-11 UBC BMD07D - Description of Strata with Histograms 1971-1976.
- 20-12 UBC BMD07R - Non-Linear Least Squares 1976-1979.
- 20-13 UBC BMD08V - Analysis of Variance 1970-1978.
- 20-14 UBC BMD09S - Transgeneration 1970-1979.
- 20-15 UBC BMD11S - Life Tables and Survival Rate 1976.
- 20-16 UBC BMD01D - Simple Data Description 1971-1974.
- 20-17 UBC BMD01R - Simple Linear Regression 1970-1978.
- 20-18 UBC BMD02M - Regression on Principal Components 1972-1975.
- 20-19 UBC BMD02R - Stepwise Regression 1969-1974.
- 20-20 UBC BMD05D - General Plot Including Histogram 1971-1977.
- 20-21 UBC BMDP4M - Factor Analysis 1974.
- 20-22 UBC BMDP9D - Multi-Dimension Data Description 1977.
- 20-23 UBC BMDX63 - Multivariate General Linear Hypothesis 1969-1975.
- 20-24 UBC BMDX84 - Asymmetrical Correlation with Missing Data 1972-1975.
- 20-25 UBC BNDRDC - A Bandwidth and Profile Reduction Program for Sparse Matrices 1978.

- 20-26 UBC CADRE - Integration Using Cautious Adaptive Romberg Extrapolation 1972.
- 20-27 UBC CAGE - Eigenvalues and Eigenvectors 1968.
- 20-28 UBC CAMERA - Use of a Camera at the Adage Graphics Terminal 1977.
- 20-29 UBC CATMNT - Catalogued Tape Mounts 1977.
- 20-30 UBC CDATE - Character Date 1971.
- 20-31 UBC CEIGN - Eigenvalues and Eigenvectors of a Complex Matrix 1972
- 20-32 UBC CENSUS - Canadian Census Users Summary Tapes 1977.
- 20-33 UBC CG - Preconditioned Conjugate Gradient Solution of Sparse Linear Systems of Equations 1980.
- 20-34 UBC CHARACTER - Character Manipulation in FORTRAN 1970-1981. [2 folders]
- 20-35 UBC CHEB - Discrete Chebychev Curve Fit 1973.

BOX 21

- 21-1 UBC CHKPAR - FORTRAN Parameter Check Routine 1976.
- 21-2 UBC CHOL - Choleski Method for the Solution of Linear Equations with Large Banded Matrices 1982.
- 21-3 UBC CHOLX - Out of Core Choleski Method for Large Symmetric Matrices with Variable Bandwidth 1975.
- 21-4 UBC CJDATE - Processing of Calendar and Julian Dates 1969.
- 21-5 UBC CLIP - Clipping of Two and Three-Dimensional Objects 1972-1975.
- 21-6 UBC CNTOUR - Contouring a Grid 1969-1978.
- 21-7 UBC COLSQ - Collating-Sequence Routine 1975.
- 21-8 UBC COSIM - Integration using Simpson's Rule with Error Control 1969.
- 21-9 UBC COUNT - Count -- A Word Counting Program 1969.
- 21-10 UBC CORR - Parametric and Non-Parametric Correlations and Tests of Significance 1969.
- 21-11 UBC COURSEWRITER - MTS Coursewriter Manual 1974-1976.
- 21-12 UBC CPOLY - Zeros of Polynomials with Real or Complex Coefficients 1971-1973.
- 21-13 UBC CREPLY - Determining if a User is at a Terminal 1973.
- 21-14 UBC CRE8 - A file Creation Routine 1971.
- 21-15 UBC CS - Evaluation of Fresnel Intervals 1969.
- 21-16 UBC CSMP - Continuous Systems Simulation 1971-1975.
- 21-17 UBC CSMPIII - Continuous System Modeling Program III 1976-1979.
- 21-18 UBC CURVE - Curve Fitting Techniques 1974-1978. [2 folders]
- 21-19 UBC CURVE - Curve Fitting Routines Sept. 1981.
- 21-20 UBC D4 - Distribution 4 Changes to MTS 1978.

21-21 UBC DATA - Data Subroutine 1965.  
21-22 UBC DATE - Date and Time of Day Subroutines 1969.  
21-23 UBC DBLGS - Double Gaussian Integration 1974.  
21-24 UBC DE - Solution of Ordinary Differential Equations with Refined Error Control 1974.  
21-25 UBC DEFAULT - Defining MTS Logical I/O Unit Specifications 1972.  
21-26 UBC DELETE - Deleting Part of an MTS Line File 1970.  
21-27 UBC DET - Determinant Evaluation 1969.  
21-28 UBC DGUIDE - A Guide for the Preparation of Computing Centre Documentation 1975.  
21-29 UBC DIFSY - Solution of Ordinary Differential Equations by Rational Extrapolation 1979.  
21-30 UBC DIGAULT - A Time-Series Data Graphics Editing Facility 1974-1976.  
21-31 UBC DIGITIZER 1973-1974.  
21-32 UBC DOT3D - Displaying Three-dimensional Dot Pictures at the Adage Graphics Terminal 1973.  
21-33 UBC DSLIST - Listing an Osiris Dataset 1971-1972.  
21-34 UBC DUMP 1969.  
21-35 UBC DUNCAN - Duncan Multiple Range Test 1971-1990.  
21-36 UBC DURB - Durbin-Watson Test for Serial Correlation 1971.  
21-37 UBC EDIT - The Line File Editor 1969-1983. [3 folders]  
21-38 UBC EDLOT - Program to Allow Editing of Plot Files 1972.  
21-39 UBC EFL - Elementary Function Library 1974.  
21-40 UBC EIGAC - Error Bounds for Eigenvalues and Eigenvectors 1969.  
21-41 UBC EIGENP - Eigenvalues and Eigenvectors of a Real General Matrix 1969.  
21-42 UBC ELTIME - Elapsed Time of Day 1969.  
21-43 UBC ESP - Educational Statistics Package 1977-1979. [2 folders]  
21-44 UBC EVPOWR - Eigenvalues and Eigenvectors for  $AX=\lambda BX$  1971.  
21-45 UBC EXAM CARD - OMR Multiple Choice Examination Answer Card 1972.  
21-46 UBC EXAMN - A Program Package for Examining Plot Files at the Adage Graphics Terminal 1975.  
21-47 UBC FACILITIES - An Introduction to the Computing Centre 1978-1979.  
21-48 UBC FACTOR - Factor Analysis 1969-1983.  
21-49 UBC FAKEOS - OS - MTS Interface Routine 1972.  
21-50 UBC FAN - Factor Analysis 1971-1976.  
21-51 UBC FBAND - Fast Choleski Method for the Solution of Banded Systems of Linear Equations 1971-1982.  
21-52 UBC FCF - Fourier Curve Fitting with Unequally Spaced Data Points 1970.  
21-53 UBC FERMI - Fermi Function 1966.  
21-54 UBC FFIO - Free-Format Input/Output Routines 1981-1983.

- 21-55 UBC FFT - Faster Fourier Transforms for Real Data May 1979.
- 21-56 UBC FFT9 - [Solution of Helmholtz or Poisson Elliptic PDE] Aug. 1982.
- 21-57 UBC FGAU - Function Subprograms for Gaussian Quadrature 1970-1976.
- 21-58 UBC FILES - A Program to List the Names of Your Private Files 1971.
- 21-59 UBC FILESNIFF - Disk File Characteristics 1969.
- 21-60 UBC FIOL - FORTRAN Input/Output with MTS Line Files 1972.
- 21-61 UBC FIT - Test for Goodness of Fit 1970-1990.
- 21-62 UBC FITPACK - Curve and Surface Fitting to Splines Under Tension April 1996.
- 21-63 UBC Floppy Disk - Using Floppy Disks at UBC 1981-1986.
- 21-64 UBC FMT - A Documentation Program 1973-1981. [3 folders]

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- 22-1 UBC FMTBASIC - A Basic Users' Guide to FMT 1976-1982. [2 folders]
- 22-2 UBC FO - A File Use Optimization Routine 1971.
- 22-3 UBC FORSIM - Package for Solving Ordinary and Partial Differential Equations 1978-1982. [2 folders]
- 22-4 UBC FORTRAN H - The FORTRAN H Compiler 1970-1974.
- 22-5 UBC FORTRAN I/O 1974-1975.
- 22-6 UBC FORTRAN - IBM FORTRAN IV (G) Compiler 1970.
- 22-7 UBC FORTRANVS - Compiling Programs Written in Fortran 77 1984-1986.
- 22-8 UBC FPROB - Probability of an F or t Distribution 1969-1980.
- 22-9 UBC FRAND - A Fast Pseudo-Random Number Generator 1970.
- 22-10 UBC FREAD - Free Format Read Routine 1973-1977.
- 22-11 UBC FRISK - Cross-Reference and Relabeling of FORTRAN Programs 1970-1976
- 22-12 UBC FS - Saving MTS Files 1971.
- 22-13 UBC FSAVE - File Save and Restore Routine 1969.
- 22-14 UBC FSCON - Tape Conversion: FSave to FS 1971.
- 22-15 UBC FSCOPY - Copying File-Saved Files 1971.
- 22-16 UBC FTN - FORTRAN IV Compilers 1972-1979.
- 22-17 UBC FUTIL - Futil - A File Utilization Analysis Routine 1972.
- 22-18 UBC FVALUE - F-Value for a Given Probability in an F or t Distribution 1975.
- 22-19 UBC MFAV - Analysis of Variance/Covariance 1970-1983. [2 folders]
- 22-20 UBC MIDAS - Michigan Interactive Data Analysis System 1985.
- 22-21 UBC MINOS - Modular In-Core Nonlinear Optimization System 1982-1989.
- 22-22 UBC MOL10 - The Method of Lines Solution of PDE's in One Spatial Dimension 1987-1990.



- 22-23 UBC MPSX - Mathematical Programming System Extended 1987.
- 22-24 UBC MVTAB - Multivariate Contingency Tabulations 1970-1977. [3 folders]
- 22-25 UBC NAG - The NAG Library 1988.
- 22-26 UBC NA Survey - A Survey of Documentation for Software in Numerical Analysis and Operations Research 1982-1989.
- 22-27 UBC NETWORK - Network Calls out from and in to MTS 1981-1990.
- 22-28 UBC NEWSSCREEN - Converting to the New Screen Support Routines 1985-1990.
- 22-29 UBC NLE - Zeros of Nonlinear Equations 1977-1988.
- 22-30 UBC NLP - Nonlinear Function Optimization 1975-1984. [3 folders]

BOX 23

- 23-1 UBC NORMAL - Random Number Generator for a Multivariate Normal Distribution 1970-1990.
- 23-2 UBC NORMIT - Normit Analysis 1975-1990.
- 23-3 UBC NSPIV - A Gaussian Elimination Routine for Non-Symmetric Sparse Matrices 1978.
- 23-4 UBC NTSYS - Numerical Taxonomy System of Multivariate Statistical Program 1979-1990.
- 23-5 UBC ODEPACK - A Systemized Collection of Ode Solvers 1989.
- 23-6 UBC OMR - Optical Mark Read 1975-1981.
- 23-7 UBC ORTHO - Gram-Schmidt Orthogonalization 1979-1988.
- 23-8 UBC MVTAB - Multivariate Contingency Tabulations 1970.
- 23-9 UBC P APPENDIX - Using BMDP Programs at UBC 1976-1990.
- 23-10 UBC PAIRC - Means, Standard Deviations and T-Test for Paired Comparisons 1969-1981.
- 23-11 UBC PAPER TAPE - Paper Tape User's Guide 1972-1980.
- 23-12 UBC PAR - Returning an MTS Parameter String to a FORTRAN Program 1970-1984.
- 23-13 UBC PASCAL TIDY - Program to Tidy Pascal Source Code 1983.
- 23-14 UBC PASVAR - Solution of Boundary Value Problems 1982.
- 23-15 UBC PDECOL - The Solution of Partial Differential Equations in One Spatial Dimension 1978-1986.
- 23-16 UBC PDNUM - Numeric Partial Derivatives 1976.
- 23-17 UBE PERMUTE - Permutation and Combination Generators 1971-1989.
- 23-18 UBC PL/C - PL/C: The Cornell Compiler for PL/1 1971-1979. [2 folders]
- 23-19 TN (Technical Note) 1-9; 11-32; 34-40 [missing TN 10 and 33. Note that the Technical Notes were originally arranged in individual folders by the UBC Computing Centre.] 1973-1975.

- 23-20 TN (Technical Note) 40; 42-56; 58-71 [missing TN 41 and 57. Note that the Technical Notes were originally arranged in individual folders by the UBC Computing Centre.] 1975-1976.
- 23-21 TN (Technical Note) 72-99 [Note that the Technical Notes were originally arranged in individual folders by the UBC Computing Centre.] 1976-1977.
- 23-22 TN [Technical Note] 100-125 1977-1979.  
[Note that the Technical Notes were originally arranged in individual folders by the UBC Computing Centre.]

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#### MISCELLANOUS SERIES

- 23-23 Review Reports 1989.
- 23-24 Mission Statement 1989.
- 23-25 Law Project 1986-1987. [3 folders]
- 23-26 Space Study 1986-1987.
- 23-27 Library System 1986-1987.
- 23-28 MTS Workshop Seven Proceedings May 20-27, 1981.

#### BOX 24

- 24-1 Request for Quotation [from IBM] March 1978.
- 24-2 Reviews of the Computer Centre 1988. [2 folders]
- 24-3 Mr. Jack Leigh, UBC Nov. 29, 1978.
- 24-4 CDP Review Manual 1989.
- 24-5 CDP - Certificate in Data Processing Examination by James W. Morrison 1976. [2 folders]
- 24-6 CDP [Certificate in Data Programming] Review Course Materials - Jack Leigh 1980.
- 24-7 British Columbia Systems Corporation binder 1977. [2 folders]
- 24-8 Materials presented to the Peer Review Committee of the ACM SIGUCCS 1988-1989. [2 folders]
- 24-9 Senior Staff Meetings 1972. [2 folders]
- 24-10 Report of the Information Systems Task Force - Parts 1 and 2. 1980.
- 24-11 B.C. Universities Computer Network Feasibility Study by J.L. Leigh. 1976.
- 24-12 University of British Columbia Operations Review. 1978.
- 24-13 Association for the Development of Computer-Based Instructional Systems. 1982.

UBC COMPUTING CENTRE DOCUMENTATION SERIES (continued)

- 24-14 UBC TERMINALS – The MTS Terminal User's Guide February 1978.
- 24-15 UBC MTS INTRODUCTION – An Introduction to MTS August 1979.

BOX 25

- 25-1 Current Writeups [on UBC Documentation] 1975.
- 25-2 UBC - ACT Analysis of Contingency Tables 1975.
- 25-3 UBC - AGPLOT Plotting A Picture Displayed at the Adage Graphics Terminal 1975.
- 25-4 UBC - AGT Operator's Manual for the Adage Graphics Terminal 1973.
- 25-5 UBC ALGOL ALGOL-60 in MTS 1977.
- 25-6 UBC ALFI - ALGOL-Fortran Interface 1976.
- 25-7 UBC ALGOLQ - Quick Algol 1976.
- 25-8 UBC ALGOLW - ALGOL W Reference Manual 1972-1977.
- 25-9 UBC ANOVAR - Analysis of Variance and Co-variance 1976-1977.
- 25-10 UBC APL - A Programming Language 1976-1978.
- 25-11 UBC ASMG - 360/370 Assembler G 1975.
- 25-12 UBC ASSIST - The ASSIST Assembler and Interpreter 1976.
- 25-13 UBC BASIC - BASIC Compiler 1975-1978.
- 25-14 UBC BATCH - The MTS Batch User's Guide 1975-1978.
- 25-15 UBC BMD01T - Amplitude and Phase Analysis 1973.
- 25-16 UBC BMD02D - Correlation with Transgeneration 1974.
- 25-17 UBC BMD02V - Analysis of Variance for Factorial Design 1975.
- 25-18 UBC BMD02V - Analysis of Variance for Factorial Design 1977.
- 25-19 UBC BMD04R - Periodic Regression and Harmonic Analysis 1973-1978.
- 25-20 UBC BMD04T - Multiple Time Series Spectral Analysis 1978.
- 25-21 UBC BMD06R - Asymptotic Regression 1974.
- 25-22 UBC BMD08D - Cross-Tabulation with Variable Stacking 1971.
- 25-23 UBC BMD11D - Data Patterns for Polychotomies 1971.
- 25-24 UBC BMD11V - Multivariate General Linear Hypothesis 1976.
- 25-25 UBC BMDP1D - Summary Statistics - Card to Save Tape 1972.
- 25-26 UBC BMDP3R - Nonlinear Regression 1975.
- 25-27 UBC BMDX69 - Multivariate Analysis of Variance and Covariance 1972.
- 25-28 UBC CAMERA - Use of a Camera at the Adage Graphics Terminal 1972.
- 25-29 UBC CGROUP - Hierarchal Grouping Analysis with Optional Contiguity Constraint 1973-1978.

- 25-30 UBC CHOL - Choleski Method for the Solution of Linear Equations with Large Banded Matrices 1974.
- 25-31 UBC CLASS - Classification Program 1976-1977.
- 25-32 UBC CNTOUR - Contouring a Grid 1975.
- 25-33 UBC COBOL - Use of the ANSI Cobol Compiler Under MTS 1974.
- 25-34 UBC COMBINE - A Record Combining Program 1978-1980.
- 25-35 UBC - COMMANDS MTS Commands Manual 1975-1980.
- 25-36 UBC COMPARE - Comparing the Records of Two Data Files or Devices 1978-1980.
- 25-37 UBC CORN - Parametric and Nonparametric Tests of Significance 1975-1979.
- 25-38 UBC CPCAL - Critical Path with Calendar Dating 1976.
- 25-39 UBC CPPN - The Critical Path Method for Precedence Networks 1977.
- 25-40 UBC CURVE - Curve Fitting Techniques 1974-1976.
- 25-41 UBC DEBUG - The Symbolic Debugging System 1977.
- 25-42 UBC DEC - Extended Precision Decimal Arithmetic Subprograms 1977.
- 25-43 UBC DIFSY - Solution of Ordinary Differential Equations with Error Control 1974.
- 25-44 UBC DIGITIZER - Use of the Digitizer 1979-1981.

BOX 26

- 26-1 UBC FBAND - Fast Choleski Method for the Solution of Banded Systems of Linear Equations 1979.
- 26-2 UBC - FFIO Free-Format Input/Output Routines 1981.
- 26-3 UBC FFT - Faster Fourier Transforms for Real Data 1978.
- 26-4 UBC FILES & DEVICES - The MTS Files and Devices Manual 1975-1976.
- 26-5 UBC FLOPPY DISK - Using Floppy Disks at UBC 1980.
- 26-6 UBC FORTRAN - Fortran User's Guide 1977-1979.
- 26-7 UBC FORUM - A Computer Conferencing Program 1981-1983.
- 26-8 UBC FOURS - Discrete Fourier Transforms with Applications to Fourier Series and Convolution Integrals 1974-1980.
- 26-9 UBC FPROB - Probability of an F or T Distribution 1974.
- 26-10 UBC FUNCTION - Mathematical (or Special) Functions 1975-1979.
- 26-11 UBC GEARB - Integration of Stiff Systems of Ordinary Differential Equations Having A Banded Jacobian 1977.
- 26-12 UBC GENLIN - A General Least Squares Analysis of Variance Program 1977-1978.
- 26-13 UBC GLOSSARY - Glossary of Computing Terms 1973-1978.
- 26-14 UBC GPSS/H - GPSS/H Compiler 1982.

- 26-15 UBC GPSSV - General Purpose Simulation System V 1975.
- 26-16 UBC GRAPHICS - Graphics Facilities at UBC 1978-1981.
- 26-17 UBC HELP - A General Purpose Help Facility 1977-1980.
- 26-18 UBC HISTGM - Plotting Histograms on the Printer 1973.
- 26-19 UBC HVAR - Bartlett's Test for Homogeneity of Variance 1974.
- 26-20 UBC IDENT - Identifying System-Significant Character Strings 1975.
- 26-21 UBC IF - The Interactive FORTRAN Manual 1975-1979.
- 26-22 UBC IFCOURSE - Computer Assisted Instruction Course on IF 1975.
- 26-23 UBC IG - The integrated Graphics System 1978-1982.

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- 27-1 UBC INSTRUCTOR - Guidelines to Instructors for Using the Computer in Their Courses 1978-1983.
- 27-2 UBC INTERGRATION - Integration (Quadrature) Routines 1978-1982.
- 27-3 UBC ISP - Interactive Statistics Package 1974-1978.
- 27-4 UBC KSTEST - Kolmogorov-Smirnov Goodness of Fit Test 1976.
- 27-5 UBC LIP - A Linear Programming Package 1977-1980.
- 27-6 UBC LISTER - Listing Program 1977-1978.
- 27-7 UBC LOADER - The Dynamic Loader 1976.
- 27-8 UBC LOGCP - Functions for Logical Bit Manipulation in Fortran G Programs 1977.
- 27-9 UBC MAIL - The MTS Mailbox Facility 1973-1978.
- 27-10 UBC MAILABEL - Mailing Labels 1978.
- 27-11 UBC MATRIX A Guide to Solving Matrix Problems 1975-1979.
- 27-12 UBC MCP - MCP Communications for Microcomputers 1983-1984.
- 27-13 UBC MCSCORE - Multiple Choice Scoring Program 1977.
- 27-14 UBC NA SURVEY - A Survey of Documentation for Software in Numerical Analysis and Operations Research 1983.
- 27-15 UBC NEGB - A Fortran Program 1970.
- 27-16 UBC MPSX - Mathematical Programming System Extended 1975.
- 27-17 UBC MTS INTRODUCTION - An Introduction to MTS 1980.
- 27-18 UBC P APPENDIX - Using BMDP Programs at UBC 1976-1980.
- 27-19 UBC PASCAL/VS - PASCAL/VS at UBC 1982.
- 27-20 UBC PCHI - Probability on a Chi-Squared Distribution 1973.
- 27-21 UBC PERS - Plotting Orthographic Views of Surfaces with Hidden Lines Removed 1975.
- 27-22 UBC PL/1 - Using PL/1 at UBC 1975-1977.
- 27-23 UBC PLOT - The UBC PLOT Subroutines and Programs 1976-1981.

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- 28-1 UBC PLOTSEE - Plot Previewing on Any Terminal or in Batch 1976-1981.
- 28-2 UBC PPS - Project Planning System 1975.
- 28-3 UBC PROBIVR - Inverse Probability Functions 1971.
- 28-4 UBC PROFILE - Executing Commands from Sigfiles 1976-1978.
- 28-5 UBC QEXT - Extended Precision Floating Point Subprograms 1977-1979.
- 28-6 UBC QUAD - Quadratic Programming Program 1977.
- 28-7 UBC RANDOM - Random Number Generators 1975-1978.
- 28-8 UBC RANGE - Random Grouping 1976.
- 28-9 UBC RG - Report Generator 1977-1979.
- 28-10 UBC RJE - Operator's Guide for the Remote Job Energy Terminals 1974.
- 28-11 UBC RKC - Runge Kutta with Error Control 1975-1979.
- 28-12 UBC ROOT - Roots of Polynomials and Operations Research 1976-1980.
- 28-13 UBC SAINT - Aitken Interpolation 1969.
- 28-14 UBC SFRP - Small Free-Format Regression Package 1976.
- 28-15 UBC SHAZAM An Econometrics Computer Program 1977-1982.
- 28-16 UBC SIMCORT - Calculation of Means of Standard Deviations of Simple Correlation Coefficients of and T-Tests for Variables with Some Missing Data Values 1976.
- 28-17 UBC SLTEST - Equality of Slope Test 1976-1980.
- 28-18 UBC SNOBOL - The SNOBOL4 Compiler 1974.
- 28-19 UBC SORT - Sorting and Merging Routines 1971-1982.
- 28-20 UBC SPIRES - An Introduction to Spires 1977-1983.
- 28-21 UBC SPITBOL - The SPITBOL Compiler and Language 1974.
- 28-22 UBC SPSS - Statistical Package for the Social Sciences Program 1975-1980.
- 28-23 UBC SSAI - Smallest Space Analysis 1974.
- 28-24 UBC SSP The IBM Scientific Subroutine SSP/360 1975-1978.
- 28-25 UBC STAT - A Survey of Statistical Programs 1972.
- 28-26 UBC STAT GUIDE - Statical Program Recommendations 1979.
- 28-27 UBC STUDENT AREA - The UBC Student Terminal Area 1976-1980.

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- 29-1 UBC SURFACE - Surface Visualization Routines 1978-1982.
- 29-2 UBC SVD - Singular Value Decomposition of a Matrix 1976.
- 29-3 UBC SYMSOL - Solution of a System of Linear Equations whose Matrix is Symmetric of Positive-Definite and Stored by Row 1977-1980.
- 29-4 UBC TAPE - Magnetic Tape User's Guide 1975-1980.
- 29-5 UBC TAPEASY - Magnetic Tape Handling Made Easy 1980-1982.

- 29-6 UBC TEK BASIC - The Tektronic Storage Scope 1977.
- 29-7 UBC TERMINALS - The MTS Terminal User's Guide 1977.
- 29-8 UBC TETRA - Tetrahoric-Correlations 1970.
- 29-9 UBC THESIS - A Guide to Producing Theses by Computer 1978.
- 29-10 UBC TIME & DATE - Time and Date Routines 1973.
- 29-11 UBC TRAN - The Transportation Problem 1979.
- 29-12 UBC TRANS - Trans 1977.
- 29-13 UBC TRAP - Program Interrupt Trap 1970.
- 29-14 UBC TRP - Triangular Regression Package 1977.
- 29-15 UBC TSP - Time Series Processor 1974.
- 29-16 UBC UPP - Utah Pert Plot Program 1974-1977.
- 29-17 UBC WATFIV - The WATFIV FORTRAN Compiler 1976-1977.
- 29-18 UBC XEROX 9700 - The Page Printer Version 2.0 1984.
- 29-19 UBC XPAND - Programs to Generate a Grid from a Set of Scattered Data Points 1976.
- 29-20 TN (Technical Note) 57 1976.

## PHOTOGRAPHS

45 b&w photographs of various sizes.

## BOX 30

### UBC COMPUTING CENTRE NEWSLETTER SERIES (cont.)

- 30-1 Campus Computing September 1989 - May 1991  
- 19 issues, missing February 1991
- 30-2 Campus Computing June 1991 - October 1992  
- 13 issues, missing September 1991