S.P.C.C.N
St. Paul Campus Computing Newsletter

COMPUTING NEWSLETTER MAILING LIST

The publishing of the St. Paul Campus Computing Newsletter represents a consolidated effort by all computing-related groups on the St. Paul Campus. This issue of the newsletter is being distributed more widely than usual to reach individuals who may be interested in continuing to receive it but who are not presently on our mailing list. We also ask people who receive this newsletter to pass it on to colleagues who may be interested in being added to our mailing list.

We invite anyone with computing-related material for the news-letter or suggestions for future issues to contact Mel Sauve, 33 North Hall, 373-0987.

COMPUTING CENTER (North Hall)

1. ANNOUNCEMENTS
   a. We are now entering our heavy computing season for the IBM 360/30. Generally the 360 system is made available for short-term computing work from 8:00 a.m. to 7:00 p.m. daily. Lengthy computer runs normally are sched-uled after 7:00 p.m. Occasionally it will be necessary to reserve the 360/30 system between 4:00 p.m. and 7:00 p.m., for lengthy runs that cannot be completed during the processing day. When a major scheduling change such as this is made, it will be posted in room 22. All special requirements for scheduling computer runs should be brought to the attention of the operations supervisor, Dick Rignell (373-0987).
   b. Users are invited to use the suggestion box located in the lounge area.

2. INTRODUCTORY AND ORIENTATION SEMINAR
   An introductory seminar for new and prospective users of the equipment and services available in the Computing Center is scheduled for Thursday, November 3, from 2:30 to 4:30 p.m., in room 36, North Hall. Those wishing to attend this seminar should call or write Mrs. Eva Klein, 27 North Hall (373-0987) providing her with your name, department, and telephone number.

   The subject matter of the seminar will relate to the following topics:

   Equipment
   a. IBM 360 model 30
   b. Univac 1004 terminal
   c. Teletype Terminal (MIRJE)
   d. Hewlett-Packard programmable calculator
   e. Unit-record equipment (sorters, reproducers, etc.)
   f. Keypunch equipment
   g. Miscellaneous equipment (copier, burster, decollator, etc.)

   Services
   a. Application programming
   b. Computer programming consulting
   c. Keypunching
   d. Unit-record and computer equipment operations
   e. Software available

   Miscellaneous
   a. Card and paper supplies available
   b. Magnetic tape, card, and printout storage facilities
   c. Open-shop operations
   d. Account numbers and cost of services
   e. Access to facilities and hours of work
   f. Tours, demonstrations, and short courses available

3. DATA PROCESSING ORIENTATION SEMINAR
   On Tuesday, November 8th, the Center is offering an intro-ductory level orientation program for those who have never had the opportunity of using computerized techniques in solving problems. The presentation will be geared to the interest of those who have no previous experience with, or a very limited knowledge of data processing methods.

   Place: 36 North Hall
   Time: 2:00 to 4:30 p.m.
   The following subjects will be discussed:
   1. Collection and preparation of data
   2. Keypunching data cards
   3. Card handling and use of sorters, reproducer, etc.
   4. Introduction of computer use and programming
   5. Using a generalized computer package

   Those wishing to attend this seminar should call or write Mrs. Eva Klein, 33 North Hall (373-0987), providing her with your name, department, and telephone number.

4. DATA ENTRY CONVENTIONS AND WORKLOADS
   Because invariably we have a heavy fall rush for keypunching services, we request that users submit their data as early as possible. Early submittal of work should enable the Center to meet most deadlines. This will also give data entry super-visors maximum flexibility for setting priorities and schedul-ing work assignments.

   Generally the Center's first priority is to keep its ongoing, recurring projects as up-to-date as possible and also to oblige the user with small amounts of data to be punched. Most of the other data entry demands fall into a first-come, first-served category.

   In submitting punching jobs to our data entry section, it is best (speedier, less apt to err, and generally less expensive) if the following rules are adhered to:
   a. The letters 'I' and 'O' should be recorded as I and Ø.
   b. The number one and zero should be recorded as 1 and 0.
   c. Dashes or lines should not be used to indicate missing data or blank columns; instead the corresponding space should be left blank.
   d. When card corrections are indicated on the card itself, they should be written on the opposite end of the card.
   e. When possible it is desirable that 40 x 80 sheets (that can contain forty 80-column card images and are available free from the Center) be utilized for recording data. These sheets are large enough so data can be legibly recorded with adequate dimensions. Using these sheets generally will effect a substantial reduction in cost to the user.
   f. FORTRAN programs should be coded on FORTRAN coding sheets when available.

g. Data containing special characters, such as FORTRAN programs, that are to be run on the CDC equipment should be noted as such. By this, operators will be alerted to the need of using the 48-character punch codes that are compatible to the CDC equipment. Unless indicated otherwise, the 64-character punch codes (those common to IBM 360 operation) will be assumed.

5. REMOTE ENTRY 1004 TERMINAL
   a. North Hall continues to operate on an open-shop basis in room 24 and welcomes all University staff and student users. Operations personnel will assist any user who requests help. Please ask.
   b. Access to the terminal room and operations personnel supporting services are available from 7:45 a.m. until midnight, Monday through Friday and Saturdays from 8:00 a.m. until noon. (Keys may be checked out for weekend access.) Night operators may be summoned to admit users by the night bell on the door immediately below and beside the steps leading to the Photographic Laboratories in North Hall.
   c. The keypunch equipment (three model 26's), storage facilities, and work areas at the terminal site are for the convenience of the terminal users. Please keep this area neat and clear of waste cards and paper. Do not leave cards or terminal output on the work tables; please use the rightmost storage rack near the terminal for short-term storage or the storage facilities in room 14.
   d. Unclaimed Output: Some of the output which is delivered from Lauderdale to North Hall continues to go unclaimed. Output which is more than one month old will be recycled. Input decks that are not claimed after one month will be placed in 'dead' storage.
   e. Deliveries from Lauderdale: The University Computing Center has expanded the courier services between Lauderdale and North Hall. The pickup/delivery times are now 7:30 a.m., 11:00 a.m., 3:00 p.m., and 8:00 p.m. in room 24 North Hall.

6. COMPUTER GENERATED MAPS OF MINNESOTA

Professor Donald G. Baker and the St. Paul Campus Computing Center have developed a computerized map-making system.

It has the capability to map information when identified by county, township, range, and section numbers. The system is extremely flexible as to map size, scale, and area plotted.

This system is currently being used to map precipitation data. Daily precipitation data since 1975 are available for an extensive Minnesota network.

For more information, contact Professor Baker, Soil Science Department, 373-1356.

MINNESOTA ANALYSIS & PLANNING SYSTEM (MAPS)

APDU DIRECTORY
The Association of Public Data Users (APDU) has recently released its 1977 Data File Directory to its member organizations. The Data Directory, which was first published in 1976, has undergone a complete updating and addition of new member files.

Besides containing information on data files that are available to APDU members for interchange, the Directory includes descriptive statements of each member organization and the services provided. There are over 60 member organizations in APDU, including the Minnesota Analysis and Planning System, the Bureau of the Census, Data Use and Access Laboratories, the National Agricultural Library, Rand Corporation, and others.

APDU is a nonprofit organization composed of universities, business and public service groups. As an APDU member, MAPS makes available a number of its public data files and utilizes, as requested by its users, files from other APDU organizations.

Those interested in APDU files available should contact the MAPS office.

MINNESOTA PERSONAL INCOME
Personal income for metropolitan areas as well as for all counties in Minnesota for 1967 to 1975 are now part of the MAPS data base.

The personal income estimates were prepared by the Bureau of Economic Analysis (BEA), Department of Commerce, and indicate that total personal income increased 70 percent in Minnesota from 1969 to 1975—from $13.468 billion to $22.835 billion.

The BEA total personal income estimates consists of private and government wage and salary payments in cash and in kind, other labor income, farm and nonfarm proprietors income, interest, rents, dividends and transfer payments. It is measured in current dollars; that is, no correction is made for price changes.

For more information on the BEA personal income estimates which are available in printed form or on tape, contact the MAPS office.

COUNTY BUSINESS PATTERNS
The 1974 County Business Patterns file, unabridged, has been added to the MAPS data base.

The file, prepared by the Bureau of the Census, contains number of employees, annual payroll, and number of establishments by size class. It also includes count of establishments for all four digit SIC codes even though they are suppressed in published form.

This file is available at the national level as well as by Minnesota counties for 1974.

MAPS USERS SEMINAR
The MAPS Users Seminar—designed to increase accessibility and understanding of the Minnesota Analysis and Planning System—will be held on Tuesday, December 13.

The presentation will cover new and updated files in the MAPS data base as well as a discussion of the 1980 Census developments. The Users Seminar will also cover other aspects of MAPS extensive data base, services, facilities and computer-related activities.

To register, or for additional information, call the MAPS office (612-376-7003). There is no charge for the Seminar, which runs from 9:00 a.m. to about noon in room 401 Coffey Hall.

CLASSROOM OFFICE BUILDING COMPUTING FACILITIES

Extensive facilities for computing and consulting are available to the St. Paul Campus community in room 125 Classroom Office Building. The facilities available and their schedules are as follows:

INTERACTIVE COMPUTING LABORATORY
Room 125E houses the St. Paul Campus Instructional Time Sharing Laboratory, sponsored jointly by the University Computer Center and the Department of Applied Statistics. The lab has 12 terminals offering hard-wired connection to the MERITSS Instructional computer (the CYBER 72). After hours (evening and weekend) access to MIRJE will also be available via telephone connections provided by the Agricultural Experiment Station; however, use of MERITSS shall have priority over use of MIRJE.

The terminals in the lab include an APL/graphics terminal (Tectronix 4013), 2 wide carriage 30 cps printers (DECwriters), and two other CRT terminals.

The lab hours are 8-9 Monday to Thursday, 8-6 on Friday, and 9-5 on Saturday. Undergraduate consultants will be on duty for approximately 50 hours per week, including all evenings, weekend and afternoon hours. The consultant's schedule is posted in the lab. For use after the scheduled hours, a limited number of keys are available from the secretary in room 352 Classroom Office Building. The keys may be checked out for overnight use only.

The interactive lab may be reserved by instructors for classroom use by calling S. Weisberg 373-1068. Please note that classes will not be scheduled in the lab for consecutive hours, so that not all hours will be available.

REMOTE ENTRY
A Univac 1004 terminal permitting communication with the CDC CYBER 74 BATCH system is located in room 125G. Two model 026 keypunch machines are also available for short-term use. For consultants, hours, and keys, refer back to the inter-active lab information.

THE STATISTICAL CLINIC
The Statistical Clinic is supervised and scheduled by the Statistical Center, the consulting arm of the School of Statistics. The Clinic is a service available to the entire University community, especially graduate students with problems that arise in their research. Frank Martin (373-1048) is a source of further information on this service. The Clinic is staffed by statistics graduate students and should be the first place to turn for statistical advice. Hours vary from quarter to quarter and can be obtained by calling 373-1037.

GENERAL INFORMATION ABOUT COMPUTING EQUIPMENT BY LOCATION

Equipment Type	Location	Hours of Service	Key Staff Personnel	Telephone
IBM 360/30 computer	22 North Hall	8:00 a.m.–4:30 p.m. (M-F)	Dave Schempp (consultant)	373-0987
		7:00 a.m.–5:30 p.m. (M-F)	Keypunch Supervisors	373-0992
		8:00 a.m.–4:30 p.m. (M-F)	Secretary (account clerk)	373-0990
		7:45 a.m.–Midnight (M-F)	Operations staff	373-0990
		8:00 a.m.–Noon (Sat)	Operations staff	373-0990
Univac 1004 terminal	24 North Hall	8:00 a.m.–4:30 p.m. (M-F)	Jim Colten (consultant)	373-0987
		7:45 a.m.–Midnight (M-F)	Operations staff	373-0990
		8:00 a.m.–Noon (Sat)	Operations staff	373-0990
MIRJE teletype terminal (for research use only)	35 North Hall	8:00 a.m.–4:30 p.m. (M-F)	Jim Colten (consultant)	373-0987
		7:45 a.m.–Midnight (M-F)	Operations staff	373-0990
		8:00 a.m.–Noon (Sat)	Operations staff	373-0990
Hewlett-Packard 9100B	37 North Hall	By arrangement	Operations staff	373-0990
CDC 200 terminal	415 Coffey Hall	7:45 a.m.–4:30 p.m. (M-F)	David M. Nelson	376-7003
		7:45 a.m.–4:30 p.m. (M-F)	Elaine Greenfield (office supervisor)	376-7003
		7:45 a.m.–4:30 p.m. (M-F) (after hours use by arrangement)		
MIRJE teletype terminal (for research use only)	415 Coffey Hall	7:45 a.m.–4:30 p.m. (M-F)	David M. Nelson	376-7003
		7:45 a.m.–4:30 p.m. (M-F)	Elaine Greenfield (office supervisor)	376-7003
		7:45 a.m.–4:30 p.m. (M-F) (after hours use by arrangement)		
Univac 1004 terminal	125G Classroom Office Building	8:00 a.m.–9:00 p.m. (MTh)	Consultant Roma DeCosse (secretary)	373-1037
		8:00 a.m.–6:00 p.m. (F) 9:00 a.m.–5:00 p.m. (Sat)	S. Weisberg	373-1068
Interactive instructional lab	125E Classroom Office Building	8:00 a.m.–9:00 p.m. (MTh)	Consultant Roma DeCosse (secretary)	373-1037
		8:00 a.m.–6:00 p.m. (F) 9:00 a.m.–5:00 p.m. (Sat)	S. Weisberg	373-1068
Univac 1004 terminal	253 Biological Science	8:00 a.m.–5:00 p.m. (M-F)	Michael Simmons	373-1961

MAILING LIST CHANGES

If you want to make changes on our newsletter mailing list, please check the appropriate box, print your name, address and department, then return this section to Mrs. Eva Klein, 33 North Hall, St. Paul Campus.

☐ Remove the following name(s) from the mailing list.
☐ Add the following name(s) to the mailing list.
☐ Make the following corrections.

Name_____

Department_____

Campus Address_____

Name_____

Department_____

Campus Address_____

Name_____

Department_____

Campus Address_____

Name_____

Department_____

Campus Address_____