

# University of Minnesota

## St. Paul Computing Center

### Newsletter

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#### New BATCH System Installed

SPCC has installed and is ready to release a new BATCH system. This batch system was originally developed at LARS, Purdue University. Considerable changes have been implemented by our systems staff to tailor this system for SPCC and to make it run on our system. Using the new batch system, you will be able to query the status of the batch system in general, or query your own jobs. You will be able to put jobs on hold and to release them and you will be able to take better advantage of our non-prime time rates by submitting your job during the day to be run in the evening or on the weekend at the lower (BASIC) rate.

The BATCH command will lead you through a series of prompts to help you create the JOB CARDS necessary for the system, or you can create your entire program with XEDIT and submit it with another version of the BATCH command.

The old BATCH system is still available, but it will be discontinued during 1986. We encourage you to convert to the new system soon. Users may submit batch jobs to the new BATCH system from CMS accounts only. MUSIC users will not be able to submit batch jobs to the new BATCH system. SAS users using the new BATCH system must have their own private CMS minidisk for storing their SAS datasets. SAS users must remember to include the LINKACC statement in their jobs.

Documentation for this new system is available from 50 Coffey Hall in the form of the following:

CMS BATCH SYSTEM USER'S GUIDE - A complete description of the commands available and a set of examples to help you get started.

Price : \$2.00

CMS BATCH Summary and Examples - A brief introduction to the BATCH system with tables of the SET parameters and defaults. A limited number of examples are included.

Price : free

#### New Equipment

SPCC plans to replace the IBM 4341 processor with an IBM 4381 processor in December. The new machine will have 16 megabytes of main storage. The new processor will significantly increase the execution speed.

We will also be installing new disk drives in December. They are 3380 devices which will require some changes for our present users (3380s deal with cylinders, not blocks). The minimum size of a CMS minidisk will be enlarged to 1 cylinder (equivalent in the old system to about 465 1K blocks). There will be rate changes with the new processor and the new disk drives. We plan on reducing the overall cost of computing by approximately 10%. The rate changes will be announced in a future newsletter.

A new communications controller will be installed as well. **THIS WILL MEAN CHANGES FOR USERS WHO DIAL IN. LOOK FOR CHANGES DURING THE WINTER QUARTER.** SPCC will announce the changes in a logon message and in the next newsletter.

There will be renovations going on throughout December. Please excuse the mess and the noise in the computer rooms in Coffey Hall.

### Dec. 14 and 15 Closing

SPCC plans to be closed for the planned installation on December 14 and December 15 (Saturday and Sunday). The user rooms will be closed and users will not have access to the system.

### CARDS to Disappear from the Scene

The use of punched cards will be discontinued at SPCC as of June 30, 1986. The key punch machines and the system card reader/punch will be removed from room 90. All users should convert programs that they are running from cards to programs on CMS accounts before the discontinuation date.

### Discontinuation of MUSIC as of June, 1986

Below is the article that appeared in the September SPCC Newsletter.

For some time, SPCC has promoted the use of CMS as our primary operating system and accordingly the use of MUSIC has dwindled to a very low point. Now, we are announcing the discontinuation of MUSIC as of June, 1986. The announcement is made at this time to provide users adequate time to prepare for transition to CMS. Current MUSIC users can easily convert their processing to CMS by opening a CMS account and transferring their files to their CMS account. It is encouraged that this be done in advance of June, 1986. Further, MUSIC users moving to CMS should consider attending the SPCC short course on CMS. SPCC has prepared a handout entitled Transferring Files from MUSIC to CMS to help the MUSIC user transfer files to CMS.

There are some differences between the versions of SCRIPT and FORTRAN that are available on MUSIC and CMS. See a Help Desk consultant if you need to transfer one of these files.

The discontinuation of MUSIC support has come about for many reasons. The main one is that CMS offers the user much more power in computing (i.e., being able to execute SAS, and NOMAD interactively, and being able to redefine parameters of their computing environment, like different printers).

### W I N T E R   S H O R T   C O U R S E S

The St. Paul Computing Center will be offering short courses during the Winter Quarter.

The short course schedule for the Winter Quarter is as follows:

SHORT COURSE NAME	DATE		TIME
User Orientation	Jan 8	(W)	3:00-5:00
Introduction to NOMAD2	Jan 9	(Th)	2:30-5:00
Introduction to CMS	Jan 13,15,17,22	(M,W,F,W)	3:00-5:00
NOMAD2 Application Development	Jan 14,16,21,23,28,30	(3*(T,Th))	2:00-5:00
CMS Mail and BITNET	Jan 27	(M)	3:00-5:00
CMS Advanced Topics	Jan 29	(W)	2:00-5:00
NOMAD2 DBEDIT Demonstration	Feb 20	(Th)	3:00-5:00
SAS (Statistical Analysis System)	Feb 27,Mar 4,6	(Th,T,Th)	3:00-5:00
Introduction to CMS	Feb 24,26,28,Mar 3	(M,W,F,M)	3:00-5:00
Introduction to CMS SCRIPT	Mar 5,7	(W,F)	3:00-5:00

### **User Orientation**

Introduces new and prospective users to the SPCC facility. Following a brief description of the hardware and software available at SPCC, a short tour of the Computer Center will be given.

### **Introduction to CMS**

Introduces the Conversational Monitor System (CMS), an operating system that allows one to edit and save files, submit batch jobs, and run jobs interactively.

### **CMS Mail and BITNET**

Introduces the CMS commands necessary to send messages and files to other computer users. BITNET is an international network of over 200 research and educational institutions through which electronic mail, messages and files may be sent.

### **Introduction to SAS**

Covers the Statistical Analysis System (SAS). In addition to statistics, SAS provides software tools for data storage and retrieval, report writing, general programming, and graphics. A computer-based training package for SAS will be part of the course. Users not attending the short course may also have access to this self-study course. Those interested should obtain the handout named "Using CBT for SAS".

### **Introduction to NOMAD2**

NOMAD2 is a fourth generation language, which may be used for data management, retrievals, application programming, report writing, and graphics. This demo will emphasize database description and organization using NOMAD2 syntax.

### **NOMAD2 Application Development**

Teaches the steps necessary to set up a NOMAD2 application. Topics covered include: problem definition, writing a schema, entering, maintaining, and retrieving data, writing procedures, and report writing.

### **Introduction to SCRIPT**

Presents the basic features of SCRIPT, a text formatting language that allows you to prepare finished typed material such as letters, reports, manuscripts and other similar documents.

### **NOMAD2 DBEDIT Demonstration**

Introduces the NOMAD2 database editor (DBEDIT). DBEDIT is a full screen facility designed to allow the user to view and modify data in a NOMAD2 database.

### **CMS Advanced Topics**

Presents information on the use of tapes, requesting information about the computing environment, and the SPOOL command.

The first hour of the SAS, CMS, and SCRIPT short courses is lecture, and the second hour is a terminal session in which the students may apply what they have just learned.

Previous registration in a CMS class is required for registration in the SAS, NOMAD2 Applications Development, SCRIPT and CMS Advanced Topics short courses.

All courses will be offered on the St. Paul Campus.

The User Orientation will be held in B45 COB (St. Paul Campus), with no registration required. To register for the courses, please obtain and complete a short course registration form from SPCC (373-0987; 50 Coffey Hall). Return it to the Main Office, 50 Coffey Hall, prior to the start of the class. Most short courses have a modest fee associated with them and require full payment before the class begins. Sorry, no refunds are made after the class begins.

If you have questions about short courses, their cost, or registration, please call Jan Jannett or Diane Suski (373-0987).

Additional Introduction to CMS classes will be scheduled, depending upon user interest. If you have a group of 6 or more people interested in any of the short courses, SPCC can schedule a class just for your group. Please contact Jan Jannett at 373-0987 to make the necessary arrangements.

## L A S E R   C H A R G E S   C H A N G E D

AIS (Administrative Information Services) has announced an increase in the charge for LASER printing on bond paper. Effective December 1, 1985, SPCC's new charge will be \$ .06 per page image plus \$ 1.00 per file.

## N O M A D 2   N O T E S

### Midwest Region NOMAD2 Users Group Formed

The Midwest Region NOMAD2 User's Group was formed this fall to discuss mutual NOMAD concerns and solutions as they affect local NOMAD users. The prime objective of this group is to make the NOMAD product as responsive to our user needs as possible. The first meeting was held at 3M on October 8, 1985.

The University of Minnesota will be hosting the next meeting to be held at the Earle Brown Center on January 7, 1986. We will have a local user from the University of Minnesota describing a NOMAD2 application, and a speaker from the Dun & Bradstreet office in Wilton, Connecticut, to talk about some of the decision support features available with the new release of NOMAD2, particularly the LAYOUT feature. If you are interested in attending or would like to be put on a mailing list for future meetings, contact the St. Paul Computing Center at 373-0987.

### New NOMAD Class Offered

A free class on DBEDIT will be held on February 20, 1986, from 2:30 to 5:00. The class is intended for those with prior experience with NOMAD2 who would like to familiarize themselves with the DBEDIT facility. DBEDIT, or the database editor, is a facility designed for full screen terminals that allows you to view and modify your data using the entire screen instead of line by line. By adding the one line PERSPECT command to your schema, a default screen is provided. More customized screens can be defined by using options on the PERSPECT statement, and using the FORM or FIELD statements.

The class will cover the basic commands for moving through the database with DBEDIT, editing your data, and how to add statements to your schema for more customized screens. Register in Room 50.

### NOMAD2 Application - Multi Column Listings

Sometimes when doing a list request, it is necessary to have our data sorted on the page in a different order than it is actually printed out. An example of this is a directory type listing, where we want our report to appear as if it were printed in columns. Since the NOMAD2 list request prints each row across the page before it advances to the next line, we have to re-sort our report to have it appear as if it were printed in columns. This may also be used in printing mail labels with more than one label across.

A write up, including an example of a procedure to do the above processing is available free from SPCC, it is entitled NOMAD Applications - Multi Column Listings.

## S A S   N O T E S

### Version 5 of SAS

Look for a logon message announcing the release date of Version 5 at SPCC. The September issue of the SPCC newsletter listed some of the changes and enhancements

found in the new version of SAS. Repeated below are three important changes to remember with Version 5 of SAS.

1. PROC DELETE will no longer be available in Version 5 of SAS. To erase data sets under Version 5, use PROC DATASETS with the DELETE statement.
2. Any SAS data sets created under SAS release 79.6 or earlier can only be read by Version 5 of SAS. These older data sets cannot be updated. Convert these older data sets to Version 5 data sets if you plan to update them. The September newsletter shows an example of this.
3. Enclose in single quotes all titles and variable labels you assign in your SAS programs.

SAS disk migration is nearly complete. All SAS users must be storing their permanent datasets on their own CMS disks by January 1, 1986. Each SAS user with permanent datasets will be contacted by a SPOC staff member to create a CMS minidisk and to transfer their current SAS datasets. If you have not been contacted or if you have not replied, please see either the SPOC staff person trying to contact you or a HELP Desk consultant to initiate the transfer.

Note that you must have your SAS datasets on your own minidisk to use the new BATCH system.

### St. Paul Campus Microcomputer Laboratory

Location: B50 St. Paul Library

Equipment:

#### Regular Hours:

8:00 A.M. - 8:00 P.M. Mon. - Thur.  
8:00 A.M. - 4:30 P.M. Fri.  
12:00 P.M. - 4:30 P.M. Sat.  
Closed Sun.

13 IBM-PC's	4 Apple IIe's	4 Macintosh PC's
2 Disk Drives	2 Disk Drives	2 Disk Drives
256k Memory	128k Memory	512k Memory
Wordstar	Appleworks	MacPaint
Lotus 1-2-3		MacWrite
dBase III		MacChart
Minitab		Multiplan
Basic		Basic

#### December - January Hours

Regular hours through Dec. 14  
Dec. 16 - 20 9:00 A. M. - 4:30 P.M.  
Dec. 23, 27, 30, 31, Jan 2, 3  
9:00 A. M. - 4:30 P. M.  
CLOSED Dec 24, 25, 26, Jan 1  
CLOSED (Saturdays) Dec 21, 28, Jan 4  
Resume Regular hours January 6, 1986

5 Epson FX-80 printers (attached to IBM)  
4 Imagewriter printers

Access cards: \$20.00

These cards will permit access to 5 microlabs on the Twin Cities Campuses (see below). This will increase availability of hardware/software and some consulting services.

You may obtain access cards from the Bursars' Office located in Coffey Hall (St. Paul), Williamson Hall (Mpls), or the West Bank Periodical Shop.

<u>Micro-Lab</u>	<u>Location</u>	<u>Phone</u>
St. Paul	B50 St. Paul Library	376-3910
West Bank	167 Social Sci. Tower	376-3544
Minneapolis	40 Folwell Hall	376-2741
	148 Architecture	376-9922
	306C Lind Hall	373-4886

At the St. Paul Library Lab, attendants will be present to sign out the software and manuals that are available for use in the lab. Instructors may arrange to have assignment materials distributed via the lab attendants. The lab may be reserved by class instructors for two or three class periods during a Quarter. To reserve the lab, or if you have questions, call Karen Brindle at 373-0987.

A micro computer can be reserved in person, or by calling 376-3910. Co-ordination of reservations will be handled by the lab attendant. If there is a high demand for the machines, individual sessions may be limited to 2 hours.

Users will be responsible for obtaining their own work diskettes.

#### MICRO HELP LINE

UCC Microcomputer Systems Group  
376-4276 (dial DR MICRO) 9:30-12:00, 1:30-4:00 Monday-Friday  
125 Shepherd Labs

We hope that you will enjoy the labs and inform others of their availability.

#### D A T A   E N T R Y

The turnaround time for data entry varies with the workload. Currently, an average sized job (500 - 1000 records) takes about one to two weeks to complete.

Eighty column coding sheets are available at 6 North Hall.

Unless you have made special arrangements with SPCC to purchase tapes, they should be returned to data entry as soon as you are finished with them.

Help is available in preparing data or source documents (questionnaires, etc.) for the most efficient data entry.

For information about current turnaround time, cost estimates, or other questions, contact Linda or Cleo at 376-9222. Account numbers may be obtained at 50 Coffey Hall.

#### S T A T I S T I C A L   C L I N I C

The Statistical Clinic on the St. Paul Campus, is staffed by graduate students of the School of Statistics, and supervised by faculty members of the Applied Statistics Department. The Statistical Clinic provides statistical consulting to researchers at the University of Minnesota, generally without charge. Assistance on appropriate experimental designs and methods, data analysis, and the interpretation of results are part of the mission of the Clinic.

Many statistical problems can be handled completely by the personnel in the Clinic. However, more difficult problems will be referred to an Applied Statistics faculty member.

The consulting hours of the Statistical Clinic for the Fall Quarter, are:

#### Hours

Monday, Wednesday, Friday	9:00-4:00	Room: 125G COB
Tuesday, Thursday	9:00-3:00	Phone: 376-3845

## REDUCED RATES FOR OFF-HOUR USERS

Computer processing performed after 5:00 pm daily (Monday thru Friday) and all day Saturday and Sunday receives a 25% reduction on 3 billable components: Central Processor Time, High Speed Input/Output (disk and tape), and Connect Time.

## ACCESS TO FACILITIES

### ST PAUL COMPUTER CENTER

SPCC hours, locations and telephone numbers:

Main Office	: 50 Coffey Hall	373-0987	8:00 am - 4:30 pm
Users Room and	: 90 Coffey Hall		7:00 am - 11:00 pm M-F,
Computer Hours (1):	: 90 Coffey Hall		8:00 am - 4:00 pm Sat, and
	: 90 Coffey Hall		2:30 pm - 10:00 pm Sun
Help Desk	: 90 Coffey Hall	376-4602	10:00 am - 12:00 pm M-F
			1:00 pm - 4:00 pm M-Th
			1:00 pm - 3:00 pm F
Data Entry	: 6 North Hall	376-9222	8:00 am - 4:30 pm
Interactive Dialup Number:		376-5820	

- (1) After hours, Saturday, and Sunday access to the Center may be achieved by using the tunnel passageway from the Student Center.
- (2) The DOS operating system will be shut down at 10:00 pm M-F.

### Installation Weekend

CLOSED December 14 and 15

### Holiday hours:

CLOSED December 24, 25, 26 and Jan. 1

### MERITSS SYSTEM CONNECTION TO SPCC

Users can gain access to the IBM 4381 computer system at SPCC through the MERITSS System (Interactive Instructional Labs). There are now six ports dedicated to this type of communications traffic. Those wishing to utilize this type of access can obtain the handout named "Using SPCC's IBM Computer from the MERITSS System" from our Main Office (1 page, no charge).

### CLASSROOM OFFICE BUILDING INTERACTIVE INSTRUCTIONAL LAB HOURS

	Lab Hours	Lab Attendant On Duty
Monday - Friday	8:00 am - 10:00 pm	6:00 pm - 10:00 pm
Saturday	9:00 am - 1:00 pm	9:00 am - 1:00 pm
CLOSED Sundays		

Should you be the last person out of the Lab during the hours shown above, please leave the doors unlocked (SPCC personnel are responsible for locking doors at the designated times). Thank you.

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The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, religion, color, sex, national origin, handicap, age or veteran status.

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NORTHWEST ARCHITECTURAL ARCHIVES  
ALAN LATHROP - PLEASE POST  
11 WALTER LERARY  
\*PLS CAMPUS