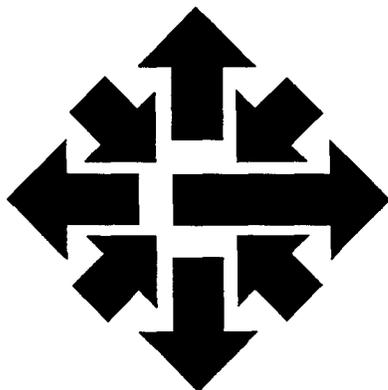


mlw  
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The ACSS

# Newsletter

University of Minnesota  
Twin Cities  
April 1988

## Office Automation

### ALL-IN-1 Documents and Folders

Jill McAllister

BITNET: JLM@UMNACVX

This article introduces some of the options for using ALL-IN-1 documents and folders. More information on these options is available in a VX writeup, accessible by typing

`$ TYPE ACSS$WRITEUP_: [Allin1]Folders.lis`

If you have used the Electronic Messaging Subsystem in ALL-IN-1, you may already have noticed its use of folders. When you created a message, it was placed in a folder called CREATED. Once you mailed the message, a copy of it was moved to your folder SENT. If you have received new mail, you noticed that it went to your folder INBOX until you read it, after which it was moved to your folder READ. Each of these folders, when present, is placed in your ALL-IN-1 File Cabinet. All documents created within ALL-IN-1 are stored in your File Cabinet in folders.

The usual way to create and use documents and folders is to enter the Word and Document Processing Subsystem. This subsystem can be entered from the Main Menu, or from any subsystem menu, by entering **WP**. A number of options from within this subsystem are then displayed.

To read a document, or to work on it, both that document and the folder which contains it must be flagged as "current." When you enter **WP** to go into the Word and Document Processing Subsystem, you will see a box in the upper righthand corner, in reverse video, which shows you which document is now flagged as current. To make a different document current, you select it, using the **SEL** (for Select) option, or create it using the **C**, for Create, option.

*continued on page 83*

## In This Issue . . .

Sharon Krmpotich describes ways to access SPSSX Version 3 on the VX.

For artificial intelligence researchers, there is a new release of the Quintus Prolog programming language on the VX; Ron Zacharski gives you details.

ACSS spring quarter short courses are now in progress. We provide a list of remaining courses and the current short course schedule for St. Paul Computing Services.

ACSS will eliminate the last of the single-density disk packs by July 1—see the related article for more information.

**Macintosh Users:  
Scholar's Aid  
Update  
Available  
(See p. 86)**

# Help Page

## HELP-LINES

### Mainframe (CA,NV,UX,VX):

626-5592 8 am to 5 pm weekdays

### Artificial Intelligence:

625-8332 3 to 4 pm weekdays

### Data Base:

626-1887 10 to 11 am weekdays

### Graphics:

626-5592 8 am to 5 pm weekdays

### Liberal Arts, Text Analysis:

625-8332 3 to 4 pm weekdays

### Microcomputer:

626-4276 9 am to 4 pm, weekdays  
(Closed 12:00 to 1:30 pm,  
Monday, Tuesday, and Friday.)

### Statistics:

626-1887 1 to 3 pm weekdays

### Text Processing:

625-1391 10 am to noon, Tuesday,  
Wednesday, Thursday

## CONSULTING

### Walk-In

#### East Bank:

128C Lind Hall; 10 am to 4 pm, weekdays;  
7 to 9 pm Wednesday

#### West Bank:

140 Blegen Hall; 11:15 am to 1:45 pm, Tuesday;  
12:15 to 3 pm, Wednesday and Thursday

#### Microcomputer:

125 Shepherd Lab; 9 am to 4 pm, weekdays  
(Closed from 12:00 to 1:30, Monday, Tuesday,  
and Friday.)

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### Electronic Mail Consulting

Consulting is now available via the mail facility on all ACSS systems (the CA, NV, VX, and UX). Send mail to user name CONSULT for questions after hours and for low-priority questions that are not critical to your immediate computing work. Replies will be sent to your account through the mail facility on your system.

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### Instructional Computing Consultant

Department instructors may call 626-0200 for assistance in choosing ACSS systems (CYBER/NOS, CYBER/VE, ENCORE/UNIX, VAX/VMS), software, and for answers to any other inquiries on using computers for instructional computing.

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## COMPUTING INFORMATION CENTER

128A Lind Hall, 625-7397, YZE6075@UMNACCA or MAD@UMNACVX

**Computing account and grant applications** available for CYBER, ENCORE, and VAX computers.

**Short course enrollment.** Short course schedules and class descriptions available.

**Assistance in ordering vendor documentation.** Vendor documentation is not always available in the University bookstores and may be ordered directly from the company.

**Complete documentation collection.** Reference copies of vendor and all other documentation for ACSS software.

**Free ACSS documentation.** General information, and mainframe and microcomputer information available.

**Computing Newsletters.** Subscribe to the *ACSS Newsletter* and the *ACSS Microcomputer Newsletter*. Newsletters from other computing centers are also available for reference.

If you aren't sure of what documents you have in your File Cabinet, you can use the **I** option. This option will list all the documents in whichever folder is current, or you can use it to list all of your folders. It is also possible to use this option to search all or some of your documents for a particular phrase or word. See the Writeup mentioned above for explanations.

Once you select a document, you can enter the **E** (Edit) option or the **R** (Read) option. You will then be put into the area, called a buffer, where you can see your text and make changes if you are editing. If you were creating a new document, you first create a header for your text. A carriage return will take you out of the header form and into the buffer where you can enter text.

Each ALL-IN-1 user has an editor specified in her/his User Profile. This is the editor you will be using when working on text in this buffer. When new users are validated for ALL-IN-1, ACSS gives everyone EDT as their default editor. Your other choice is WPS-PLUS. The ALL-IN-1 System Administrator can help you change your Profile. (See the phone number at the end of this article.)

After you enter the text, or make your changes, you may leave the editor and save your file by typing the Gold F (for File) keys. (The Gold key is on VT100 terminals and those terminals and micros that emulate VT100's. On the VT100, the PF1 key is the Gold key.) This works whether you are using EDT or WPS-PLUS. You may also leave by using Gold Q (for Quit), but note that this does not save your text. It throws it away, and you will not be able to recover it.

To delete a document, use the **D** option. Note that this affects whichever document is the current one. You will be asked to verify that you want to delete the document, and you must answer **Y** (yes) or **N** (no). The deleted document is placed in your Wastebasket folder, where it remains until your Wastebasket is emptied, either by you or by the system manager. Enter **EW** (Empty Wastebasket) from either the WP or the EM (Electronic Messaging) menu when you want to empty it. Remember that the documents which were in your Wastebasket will no longer be retrievable after you've emptied it.

You may send any document to any other ALL-IN-1 user by using the **S** option on the WP menu. This option puts you into the Electronic Messaging subsystem, and a form appears for entering the recipient's name. (For more information on this header form, see the article on Electronic Messaging in the March *Newsletter*.)

There is a **P** for Print option on the WP menu. Because you are unable to select a site and bin from within ALL-IN-1, the operators will not know where to send your output. We discourage the use of this option and suggest instead that, when you want to print ALL-IN-1 documents, you transfer them to VMS and print them from there.

To transfer a file from ALL-IN-1 to VMS, use the **DT** (for Document Transfer) option from the WP menu. Another menu will come up, and you should enter **SV** (for Send to VMS). Next you will be prompted to enter the VMS file name that is to receive the ALL-IN-1 file. Once you enter this and hit the carriage return, ALL-IN-1 will send the file and inform you when it is done. The one thing to note is that, if you do not specify a directory to receive the file, it goes to your ALL-IN-1 subdirectory—that is, to **[login\_name.ALLIN1]**. It is better to enter the full path name, including directory, when ALL-IN-1 asks you for the VMS file name. An example: use **[MYLOGIN]REPORT.TXT**, instead of just **REPORT.TXT**.

If you use DECTalk, the telephone access to have your ALL-IN-1 mail read to you, you may want to declare a special folder to contain standard answers, as this will let you use your touch-tone phone to send these answers as replies to the mail which DECTalk reads to you. First you need to create the folder and the standard messages which you intend to use. Give each of the messages a title so that you will know the contents of each. Return to the Main Menu of ALL-IN-1 and enter **DTMA** (even though it does not appear as a menu option). Two short forms will appear on your screen. The top one only has one line, and that is the form that allows you to specify the name of the folder which contains your answer mail messages. The cursor is already there, so simply enter the name of the folder. Leave this form with the Exit Screen key (0 on the keypad). You are now ready to use the Answer option (key 4 on the keypad) of DECTalk.

If you would like to be validated to use ALL-IN-1 (or DECTalk), or if you have any questions concerning ALL-IN-1, please call the ALL-IN-1 System Administrator, Jill McAllister, at 626-1878.

Statistics Packages

## Accessing SPSS<sup>x</sup> 3.0 on VX

Sharon A. Krmpotich  
BITNET: SAK@UMNACVX

You may recall that we previously announced that SPSS<sup>x</sup> version 3.0 is now available on VX. This latest and greatest release from SPSS, Inc. has more bells and whistles than one should ever hope to see, including several methods of accessing the package. There are now two interactive access methods, as well as two batch methods.

### Interactive Access

The traditional access method for interactive use is still available for those of you who prefer the status quo. This method is invoked by typing:

```
$ SPSSX3/OUTPUT=outfile.ext inputfile.ext
```

where *outfile.ext* is the name of the file that will receive the output from the SPSS<sup>x</sup> run, and *inputfile.ext* is the name of the file that contains your SPSS<sup>x</sup> commands. This method works fine for small to moderate size jobs. It will tie up your terminal until it has finished processing the SPSS<sup>x</sup> job. The other method of full interactive access is invoked by typing:

```
$ SPSSX3
```

or

```
$ SPSSX3/OUTPUT=outfile.ext
```

The first command above requires input from the keyboard and sends the output to your terminal. Its purpose is to make SPSS<sup>x</sup> resemble SPSS-PC+ more closely. It is forgiving of mistakes and will not terminate your job if you make an error. This method is suitable for small to moderate size jobs, and obviously will tie up your terminal for the duration of the processing.

The second command above will send output to *both* your terminal and the output file specified by *outfile.ext*, while taking input from your keyboard.

### Batch Access

If you prefer to have your terminal free to do other things while your SPSS<sup>x</sup> job runs, or if you have a large job, you should use batch processing via the VMS **SUBMIT** command.

To run a batch job, create the SPSS<sup>x</sup> input file (by using one of the editors). Then create another file (name it *filename.COM*) that contains the following line:

```
$ SPSSX3/OUTPUT=outfile.ext inputfile.ext
```

Once this file has been created on your directory, you can submit it for batch processing by typing the following command at the VMS \$ prompt:

```
$ SUBMIT/NOTIFY filename.COM
```

The command above submits the job to the batch queue and notifies you when the job has been completed. It will also create a logfile called *filename.LOG* on your default directory.

If you have a big job that uses large amounts of memory, you should probably use the LARGE\$BATCH queue for processing it. This batch queue is specifically designed to handle jobs requiring large amounts of memory and time. Preliminary tests indicate that using the LARGE\$BATCH queue for SPSS<sup>x</sup> jobs *reduces your costs* for large jobs.

To take advantage of this option, you would (as in the previous example) create your SPSS<sup>x</sup> input file, then create a file (like *filename.COM*) that contains the call to invoke SPSS<sup>x</sup>. To submit the job to the LARGE\$BATCH queue you would then type:

```
$ SUBMIT/NOTIFY/QUEUE=LARGE$BATCH filename.COM
```

There is a 30-minute default CPU time limit on the LARGE\$BATCH queue. To override this limit, use the /CPUTIME qualifier on the **SUBMIT** command. See **HELP SUBMIT** or the on-line writeup on the VX that gives you more information about submitting and controlling batch jobs. The writeup is called **ACSS\$WRITEUP:BATC**H.

The LARGE\$BATCH queue is not restricted to SPSS<sup>x</sup> jobs. SAS and MACSYMA users take note: *Any large program that uses substantial amounts of memory could run more efficiently and less expensively using the LARGE\$BATCH queue.*

## Scholar's Aid Update for the Macintosh

Ron Zacharski

BITNET: RAX@UMNACVX

UX or VX: RAZ

We are now distributing Scholar's Aid version 9.72, a package for Microsoft Word users on the Macintosh.

Scholar's Aid manages figures, tables, equations, and bibliographic citations. If you write a long paper using Word without Scholar's Aid, and then discover that you should have included one more equation or example in the first paragraph, you have to manually re-number all of your examples. Scholar's Aid, however, will do this automatically. First, it searches your text for figures, tables, and equations, and for references to them, then it numbers (or rennumbers) both.

The bibliographic facility in Scholar's Aid searches a data base for references cited within a given text, extracts the appropriate entries, and creates a reference list in the text, using one of approximately twenty bibliographic formats.

Scholar's Aid is a *shareware* program. That means that you can obtain a copy from us at no cost by furnishing us with a blank formatted disk. You are free to use the program and distribute it to your colleagues. However, if you find the program useful, you are asked to send the author \$35.

Special Projects  
M141 Fraser (office)  
128A Lind (campus mail)  
207 Church Street SE  
(612) 625-8332

Graphics Packages

## A Reminder: Tellagraf Goes June 12

Michele Lewis

BITNET: GRAPHICS@UMNACVX

In the February issue, we announced that the graphics package Tellagraf will be removed from VX on June 12, 1988. We are advising users to try out the Precision Visuals package PicSure.

ACSS is offering assistance in converting your Tellagraf command files to PicSure. If you would like help, or have questions concerning the removal of Tellagraf, please call Michele Lewis at 626-0314. For more information about PicSure, you may look at the writeup `ACSS$WRITEUP_[GRAPHICS]PVI.LIS` or the introductory article in the March 1987 issue of this *Newsletter*.

## Quintus Prolog Update on VX

Ron Zacharski  
BITNET: RAZ@UMNACVX  
UX or VX: RAZ

We have recently upgraded Quintus Prolog on the VX, and are now running release 2.0. There are a number of noteworthy enhancements:

**Performance Improvements:** All users will see an improvement in the execution speed of their programs. Users with large programs will see a dramatic gain. Some users with substantial applications have reported a six-fold increase in speed. In part, the speed gain is due to improved garbage collection, which reduces paging. On the ACSS VX, with a typical user load, the previous release (1.5) executed at 73,000 lips (logical inferences per second), while Release 2.0 executes at 93,500 lips.

**Module System:** Release 2.0 supports data abstraction by providing a module system that is similar to the PACKAGE system in Common Lisp (VX) and the module system in Waterloo Prolog (UX). Each module is a "black box"; procedures defined in a module are private to that module. Some procedures may be exported to provide entry points into the module.

**Prolog Library:** Prior to this release, there was no library documentation, which kept all but the most resolute programmer from using library routines. Now, the Quintus Prolog manual has a 130-page library section. The library itself has been expanded to more than 600 predicates, including packages for string manipulation, sophisticated I/O, and interprocess communication.

As with the prior release, Version 2.0 includes both an EMACS editor, which makes it easy to type in your program, and an interactive comprehensive debugger. Quintus Prolog is highly compatible with DEC-10 Prolog, PROLOG20, and microcomputer Prologs that follow the Edinburgh standard. All Quintus Prolog manuals are stored online. For more information about using Quintus Prolog and accessing the manuals, type **HELP PROLOG** at the main VX prompt.

If you have any questions about Quintus Prolog, please feel free to contact us.

Special Projects Group  
M141 Fraser Hall (office)  
128A Lind Hall (campus mailing address)  
(612) 625-8332

## ACSS's Free Documentation

Paula Goblirsch  
BITNET: PMG@UMNACVX

ACSS publishes several short documents called *Briefs*. These free documents are available at the ACSS Computing Information Center in 128A Lind Hall. You can obtain multiple copies of the *XEDIT Summary* and *Computing Facilities Map* by calling Paula Goblirsch at 626-1093. Among the *Briefs* available this quarter are:

- Artificial Intelligence Services
- CA WRITEUP Information
- Central Configuration Diagram
- Computing Facilities Map, Twin Cities Campus
- Computing Information Center and Documentation Services
- Consulting Schedule
- CYBER/NOS Access
- Documentation Directory
- ENCORE/UNIX Access
- EXPLAIN Information
- Full Screen Editor (FSE)
- Getting Output From the CYBER NV
- Getting Started At ACSS
- Graphics Packages
- Liberal Arts Computing Services
- Math, Engineering, and Statistics Software
- NOS/VE Access
- NOS/VE Command Format
- NOS/VE Equivalents to NOS Commands
- NOS/VE On-line Documentation
- NV WRITEUP Information
- Phone Numbers
- Short Course Schedule/Descriptions
- Software (CA,UX, VX)
- Tools for Administrators of VX Instructional Users
- Using MAIL on the CYBER CA
- Using MAIL on the ENCORE
- Using MAIL on the VAX
- VAX/VMS Access
- VX WRITEUP Information
- XEDIT 3.1 Reference Summary.
- Xerox 8700 Fonts Available with Scribe

# ACSS

## Spring Quarter Short Courses

### 1988

#### ACSS SHORT COURSE POLICY

Each quarter ACSS offers a large number of free computer short courses for the University community. Although these are usually introductory topics, the instructors spend a lot of time preparing for them. We ask people to register for these classes by phone, mail, or in person, so instructors know how many people to expect if materials are to be distributed. When registration for each class reaches classroom capacity we keep a waiting list of those wanting to attend. We always have waiting lists. If you do not show up for class, or call to cancel, you are depriving those who wish to attend.

ACSS avoids overbooking classes so that instructors and class participants are not inconvenienced. However, if the large number of "no-shows" continues, we will be forced to begin charging for these free classes and we will terminate telephone registrations.

Please be considerate. Think of those staff who organize and teach ACSS short courses. And, in particular, think of those users who are on the waiting list. If you aren't able to attend a class, a simple phone call (625-7397) will enable us to contact someone who can.

#### MAINFRAME COURSES

Mainframe courses are free. To register call 625-7397.  
Some classes have size limitations: Register early.

#### Introductory

Introduction to VMS Operating System	JHS	April 18-27	MWF	2:15-4 pm
Introduction to NOS/VE Operating System	TEK	April 28-May 5	TTh	2:15-4 pm
Introduction to NOS 2 Operating System	CPL	May 2-13	MWF	2:15-4 pm

#### Advanced

Using SAS (Statistics)	DLF	May 2-6	MWF	3:30-5 pm
Beginning C Programming	JLM/TEK	May 10-26	TTh	2:15-4 pm
Using SPSS* (Statistics)	DLF	May 13-20	MWF	3:30-5 pm
Electronic Mail (VAX, BITNET)	JHS	May 16-18	MW	2:15-4 pm
INGRES (Data Base Management)	PJO	May 23-27	MWF	2:15-4 pm

## MICROCOMPUTER COURSES

FEES: 1) U of MN Students, 2) U of MN Staff/Faculty, 3) Non-University persons.

### General

Strategies for Networking Microcomputers & Workstations	May 3	T	1:30-4 pm	FREE
Micro/Mainframe Communications	May 9	M	2:30-4:00	FREE

### IBM and IBM-compatible Courses

Limited to 10 people.

				(1)	(2) (3)
Introduction to Micros: MS-DOS					
Section 2	April 11-13	MTW	1:30-3:30 pm		\$40,\$50,\$80
Section 3	May 3-5	TWTh	9:30-11:30 am		\$40,\$50,\$80
Introduction to Microsoft Word for IBM					
	May 25-26	WTh	1:30-4 pm		\$35,\$45,\$85
Managing Your Hard Disk					
Section 1	April 26-27	TW	1:30-4 pm		\$40,\$50,\$80
Section 2	May 10-11	TW	1:30-4 pm		\$40,\$50,\$80
Beginning Lotus 1-2-3					
Section 2	June 2	Th	9:30-noon		\$25,\$35,\$60
Intermediate Lotus 1-2-3	May 26	Th	10:00-noon		\$25,\$35,\$60
Introduction to dBase III					
Section 2	May 10-12	TWTh	10am-noon		\$40,\$50,\$80
Programming in dBase III	May 31-June 1	TW	9:30-noon		\$40,\$50,\$80

### Macintosh Courses

Hands-on. Limited to 10.

**Macintosh Fundamentals**

Section 4	May 6	W	12:15-1:00 pm	FREE
Section 5	May 19	Th	12:15-1:00 pm	FREE

(1) (2) (3)

**Introduction to Microsoft Word for Macintosh**

Section 3	May 12-13	ThF	1:30-4 pm	\$35,\$45,\$85
Section 4	May 24-25	TW	9:30-noon	\$35,\$45,\$85

**Beginning Excel**

Section 2	June 2-3	ThF	1:30-4 pm	\$35,\$45,\$85
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**Developing Applications for the Macintosh Using Pascal**

April 18-22	MWF	1:30-3:30 pm	\$25,\$35,\$60
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**Using Hyper Card**

Section 1	April 28-29	ThF	1:30-3:30 pm	\$25,\$35,\$60
Section 2	May 16-18	MW	1:30-3:30 pm	\$25,\$35,\$60
Section 3	May 31-June 1	TW	10:00-noon	\$25,\$35,\$60

**Using HyperTalk (HyperCard Programming Environment)**

May 23-24	MT	1:30-3:30 pm	\$25,\$35,\$60
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**MacApp Object Pascal**

May 9	M	1:30-4 pm	\$25,\$35,\$60
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The following Macintosh class is demonstration only. No hands-on.

**Preparing A Dissertation on a Macintosh**

May 13	F	9:30-noon	\$15,\$25,na
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## ACSS SHORT COURSE INFORMATION

**Prerequisites:** Please note any prerequisites for the class you are interested in. Instructors will not be able to review any prerequisite requirements. If you need more information on short courses, call the Computing Information Center at 625-7397.

**Limits:** All microcomputer classes and many main-frame classes have limits to class size. Please try to register early to be sure of getting a place. If you decide to withdraw from a class, please do so as soon as possible, so that we may make the space available to others.

**Registration:** Registration is located at the ACSS Computing Information Center, 128A Lind Hall. (Hours: 8:00 a.m. to 4:30 p.m., Monday through Friday.) Fees must accompany registration. Mail registrations will be accepted. Deadline for registering is 4:00 p.m. on the last working day before the class begins. Please call and give us your name if you plan to attend a free

class; also call to cancel if you decide later not to attend, so we know how many to expect. We reserve the right to cancel a course if registration is insufficient. For registration information call 625-7397.

**Fees:** Fees following microcomputer courses above are for 1) University students, 2) University staff and faculty, and 3) non-University persons. Course fees may be paid by cash or check, or *include* a signed University journal voucher with registration information. Fees must be paid at the time of registration.

*No refunds* will be made after the class has begun. A penalty—reduction of the refund—will be assessed if you withdraw from a class within three days of the beginning of the class.

**Note:** Monday, May 30 is a University holiday. No classes will be held.

NOS News

## Single-Density Disk Packs Go by July 1

*Lawrence Liddiard*  
BITNET: LAL@UMNACVX

To simplify NOS operations and retire the last sixteen-year-old 844-21 units, all single-density packs will be converted to double-density packs by July 1, 1988. ACSS's new rate sheet and operation for fiscal 1989 will no longer allow single density disk packs or their mounting.

Those users currently using single-density disk packs have already been contacted, and their data has either been put on double-density disk packs or archived to magnetic tape media. Last year an identical charge was used for single- or double-density disk pack mounts, thus the elimination of single packs will not increase user bills.

# Computer Short Courses

## St. Paul Computing Services - Spring Quarter

<b>User Orientation</b> (For new and prospective users. An overview of SPCS's hardware, software, and services.)	<b>Apr. 14</b>	<b>Th</b>	<b>3:00 - 5:00</b>
<b>Intro to CMS</b> (CMS is the operating system on the IBM 4381. Learn to edit and submit programs and communicate with other computer users.)	<b>Apr. 18,20,21,25</b>	<b>M,W,Th,M</b>	<b>3:00 - 5:00</b>
<b>CMS MAIL and BITNET</b> (Presentation of the electronic mail capabilities on the CMS system - local and worldwide.)	<b>Apr. 19</b>	<b>T</b>	<b>3:00 - 5:00</b>
<b>SAS</b> (Presentation of the SAS system for statistical analysis, graphics, and programming.)	<b>Apr. 26,28, May 3</b>	<b>T,Th,T</b>	<b>2:00 - 4:00</b>
<b>PC SAS Overview</b> (Introduction to the PC version of the SAS system.)	<b>May 4</b>	<b>W</b>	<b>3:00 - 5:00</b>
<b>YTERM Demo</b> (Demo of YTERM, a terminal emulation and file transfer package for the IBM PC.)	<b>May 5</b>	<b>Th</b>	<b>3:00 - 4:00</b>
<b>Intro to SAS/GRAPH</b> (Introduction to SAS graphics capabilities.)	<b>May 9</b>	<b>M</b>	<b>1:00 - 3:00</b>
<b>CMS, Advanced Topics</b> (Presentation of CMS tape management facilities and various other CMS topics.)	<b>May 10</b>	<b>T</b>	<b>2:00 - 5:00</b>
<b>TinCan Demo</b> (Demo of TinCan, a terminal emulation and file transfer package for the Macintosh.)	<b>May 12</b>	<b>Th</b>	<b>3:00 - 4:00</b>
<b>Intro to NOMAD2</b> (Introduces NOMAD2, a database management system with powerful report writing and programming features.)	<b>May 19</b>	<b>Th</b>	<b>3:00 - 5:00</b>

**Registration:**

To register for the short courses, please obtain and complete a registration form from SPCS (624-7788; 50 Coffey Hall). Return it to the Main Office, prior to the start of the class. Many short courses have a small fee associated with them and require full payment with registration. Sorry, no refunds are made after the class begins. Call 624-7788 for information about the classes.

## Conventions

Throughout this and other ACSS publications, we have adopted these conventions:

- Messages and prompts from the ACSS computers appear in plain type, like this.
- Words that the computer systems replace with a specific name, value, or other information appear in *italic type*, like this.
- Commands you type at your terminal keyboard appear in **bold face type**, like this.
- Words that must be replaced by a specific name, value, or command that you type in appear in **italic type**, like this.
- Comments to interactive sessions and program files are enclosed in { curly braces, like this }.

Here's an example:

**save, filename**

is a command you type in. You type **save** and replace *filename* with the name of your file. The system may respond with the message

*filename* ALREADY PERMANENT { An example of a system message. }

where *filename* will be replaced by the name of the file you attempted to save.

# Phones/Hours/Labs

## ACSS PHONE NUMBERS

Administrative Office: 626-1600

**HELP-Line 626-5592**

**Access:**

CYBER (CA)	626-1620
CYBER (NV)	626-1622
ENCORE (UX)	626-1681
VAX (VX)	626-1641
RJE (2400 baud)	626-1656
RJE (4800 baud)	626-1663

**Accounts:**

CYBERs, ENCORE, VAX	625-1511
Computer Hours (recorded message)	626-1819
Computing Information Center	625-7397
Contract Services	625-2303
East Bank I/O, 128B Lind Hall	625-5082
Engineering Services	627-4357
Equipment Maintenance/Repair	627-4357
Graphics Software	626-5592
Information, Lauderdale	626-1600
Lauderdale Computer Room	626-0550
Lauderdale Services	626-1838
Magnetic Tape Librarian	626-1838
Math and Engineering Packages	625-5830
Microcomputer HelpLine	626-4276
Newsletter Subscription	625-7397
Permanent File Restoration	626-0595
Project Assist	626-1090
Public Labs (Managed by ACSS)	
170 Anderson Hall	624-6526
140 Blegen Hall	624-5278
14 Folwell Hall	625-4896
306B Lind Hall	625-9032
32 OMWL	624-6526
130 Physics	625-6820
9 Walter Library	626-1899
Lab Manager (14 Folwell Hall)	625-7850
Publications Information	626-1093
Short Course Registration	625-7397
Shuttle Bus Service	625-9525
System Status (recorded message)	626-1819

For the phone numbers of consulting services, see the Help Page.

## PUBLIC LABS TWIN CITIES CAMPUS

Location	Batch	Interactive	Micro
<i>East Bank</i>			
ApH 204	Closed for remodeling		
Arch 148			X
CenH		X	
ComH		X	
DieH 207, 270		X	X
EddyH Annex 54			X
EtH 121, 124	P	X	
FolH 14, 14a	P	X	X
FronH		X	
LindH 26		X	
LindH 128B	P	X	
LindH 306B			X
MasCanCtr M39		X	
MechE 308		X	
MoosT 8-425			X
Nich 109			X
Phys 130		X	X
PioH		X	
SanH		X	
TerrH		X	
VinH 4		X	
VinH 203			X
WaLib 9		X	X
<i>West Bank</i>			
AndH 170	P		X
BlegH 140	P	X	
MdbH		X	
OMWL B2			X
<i>St. Paul</i>			
BaH		X	
CentLib B50			X
ClaOff 125E	P	X	
ClaOff B22			X
McNH 69			X
Vet 43B			X

P means Printer only. For more information see WRITEUP, LABS.

## SYSTEM OPERATING HOURS

	CYBER (CA), ENCORE (UX), VAX (VX)	CYBER (NV)	Low Rate
M-F	7 am - 4 am	7 am - 1 am	8 pm - 4 am, 7 am - 8 am
Sat	4 am - 9 pm	7 am - 10 pm	all operating hours
Sun	6 pm - 4 am	6 pm - 1 am	all operating hours

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April 1988