The ACSS
Newsletter

University of Minnesota
Twin Cities
June 1988

Dialup Access for LUMINA

Peter Oberg
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LUMINA (Libraries of the University of Minnesota Integrated Network Access) is the University's new computerized card catalog. You can now use LUMINA from your office or home through dial-up access, using a terminal and modem or a personal computer with communication software and a modem.

Using LUMINA with a Terminal

Currently LUMINA works over the following types of terminals:

ADM31	ADM3A	DM1520	DM1521
DM3045	IBM3101	IBM3164	TVI912
TVI920	TVI950	TVI950R	VT100

1. Set the communication parameters on your terminal to the following:

   parity: even
   flow control: xon/xoff
   data bits: 7
   duplex: full
   stop bits: 1
   baud rate: match to your modem's rate

2. Dial 626-2206. When LUMINA answers, you'll hear a high-pitched sound. That is your signal to press a button on your modem, completing the connection between your terminal and LUMINA. Then replace the telephone headset in its cradle.

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Include your Electronic Mail Address in the *Student and Staff Directory.*

If you have not already mailed in your Update Form for the University *Student and Staff Directory*, please notice that this year's form includes a blank for your "Electronic ID."

ACSS encourages all users of electronic mail to include at least one of their electronic mail addresses in the *Directory.*

LUMINA HelpLine Now Available.

See p. 116.

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

West Bank:

140 Blegen Hall; 11:30 am to 1:30 pm, Tuesday;
10:00 to noon, Wednesday; and
12:30 pm - 2:30 pm Thursday

Microcomputer:

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

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.

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.

COMPUTING INFORMATION CENTER

128A Lind Hall, 625-7397, YZE6075@UMNACCA, YZE6075@UMNACUX, 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 *Microcomputer Newsletter.* Newsletters from other computing centers are also available for reference.

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3. After making connection, LUMINA will ask you to

   ENTER TERMINAL TYPE:

   Type in **VT100** or another terminal code from the list above.

4. LUMINA will respond with the following message:

   PLEASE TYPE IN LUMINA AND PRESS ENTER.

   Type **LUMINA.** Another message will welcome you to LUMINA.

5. A menu will appear with LUMINA as option a. Type **a.**

6. From this point you can use LUMINA exactly as you use it on the terminals in the libraries.

7. To leave LUMINA, type three keys on your terminal keyboard: **ESCAPE, O, M.** (Note that the last two keys are capital or shifted O and shifted M.) These three key strokes may or may not log you off of LUMINA. If the LUMINA help screen continues to appear after you've typed these sequences twice, then simply break the phone connection. (Switch off the modem, or lift the headset and replace it.)

Using LUMINA with a Microcomputer

If you're using **IBM PCs or compatibles**, you can use PROCOMM communication software to access LUMINA. Follow the same communication settings as stated above, and add the following setting: terminal emulation: **vt100.**

Set the baud rate, the number of data and stop bits, parity, and duplex under the Alt-P (Line Settings) screen. You set the terminal emulation and flow control from the Setup screen Alt-S.

For the **Macintosh** you can use the TinCan communication software. Again, follow the same communication parameters as stated above with terminal emulation set to VT100. You set the baud rate, duplex, parity, data bits, and stop bits from the Serial Port item under Configure menu. You set the terminal emulation from the Terminals item of the Configure menu. Flow control is set automatically.

To Log Off: Type these three keys:

ESCAPE
` {The grave accent.}
. {The period.}

or these four keys:

`	{The grave accent.}
Option `	{Hold the **Option** key down while striking the grave accent key.}
.	{The period.}

Either of these sequences will log you off of LUMINA. Use the first if your keyboard has an ESCAPE key; use the second if it does not. If the LUMINA help screen continues to appear after

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you've typed these sequences twice, then simply break the phone connection. (Switch off the modem, or lift the headset and replace it.)

University students, faculty, and staff can obtain a copy of ProComm or TinCan from the ACSS Microcomputer Group in 125 Shepherd Labs. Bring a formatted 5-1/4 or 3-1/2 inch diskette, and you will be asked to sign an agreement not to distribute the package to others.

If you have any problems or questions about using LUMINA, you can call the LUMINA Consultant at 626-2272. Micro users can also call the Microcomputer HELPLine for assistance in connecting to LUMINA. The Micro HELPLine (626-4276) is open from 9 to 12 and 1:30 to 4 Monday, Wednesday, and Friday, and from 9 to 4 Tuesday and Thursday. The consultants can answer questions about using LUMINA and about accessing it with the dial-up number and communications software.

New Laser Printers Print Files from UX and VX

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We have recently installed several Apple LaserWriters that will print files from the ENCORE UX and the VAX VX. These printers are located in 170 Anderson, 14A Folwell, 9 Walter Library, 69 McNeal Hall, and 130 Physics. These printers will not yet print files from the CYBER CA.

Here are the locations and codes for all the ACSS laser printers on campus (all but one are Apple LaserWriters) that print files from UX and VX:

andh170	Anderson 170
folh14a	Folwell 14
lind128a	Lind 128B (This printer is a Printronix laser printer.)
lind128b	Lind 128B
lrc	Learning Resource Center, 278 Diehl Hall
mcnh69a	McNeal 69
phys130a	Physics 130
walib9a	Walter 19

Use these codes in the appropriate place in a print command. To print a file on the Anderson Hall printer from UX, type

```
lpr -P andh170 -J jobname -C site.bin filename
```

To print from VX, type

```
$ print/queue=andh170/name=site.bin filename
```

Replace ***site*** and ***bin*** with the appropriate site code and bin number.

CYBER CA Upgrade to NOS 2.6.1-700

Dave Bianchi
BITNET: DJB@UMNACCA

On June 12, we will upgrade our CYBER CA operating system to NOS 2.6.1-700.

Users may notice some of these changes:

- The **PASSWOR** parameter **OP** will be renamed **PT**.
- EXPLAIN,M=COMMAND will be removed and replaced by WRITEUP,COMMAND.
- The maximum value for the **REP** parameter on **ROUTE** and **PRINT** will increase from 31 to 63.
- CCL Changes: Secure parameter support.
  New **USER** and **PACK** symbols available.
- Auto-indent change in FSE.

For information on these and other changes, see the on-line document WRITEUP,NOS700.

More on CYBER CA Permanent File Archiving

Dave Bianchi
BITNET: DJB@UMNACCA

In the February *Newsletter*, we announced a new archiving system on the CYBER CA. The new system went into effect April 1. This article will answer most of the questions that we have been asked since the February article.

Q: How is the new system different from the old system?

The old system dumped and purged files that had not been accessed in 30 days. It was run on the first of every month. The dumped files were no longer listed in your **CATLIST** output and you needed to use **ARCLIST** to determine archived files and then **RELOAD** to restore your files.

The new system dumps and releases disk space for files that have not been accessed in 30 days. Once a week the new system releases enough disk space to maintain a minimum amount of free space on each disk. While disk space for a file may be released, the information for the file catalog remains on disk. **CATLIST** now lists your tape files as well as your disk files. Tape files are enclosed within parentheses in the short catalog list. They are denoted by a T in the RS (residence) column of the full output (**CATLIST,LO=F**).

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DT means that it is on both disk and tape and that **DROPDS** may be used to release it from disk.

Note that files dumped under the old system must be reloaded using **ARCLIST** and **RELOAD**. The last dump under this previous method was April 1; the files from that dump are available until March 31, 1989.

Q: What are the advantages and disadvantages of the new system?

Advantages: You have more control over the archiving of files. Archived files will no longer disappear from your catalog. Archived files are backed up to two sets of tapes before disk space can be released. Reloaded files are more quickly restored. Finally, you can save money by storing infrequently used files on tape.

Disadvantages: Tape files are not accessible during those times when the CA runs unattended (for example, University holidays). To find out when CA is unattended, see WRITEUP,HOURS or the table on the inside back page of every issue of this *Newsletter.*

Q: When a file is dumped to tape and released from disk, how long will it stay there? The old system only kept files for one year.

A file on tape will remain available to you as long as you have not purged the catalog entry from your account. If your account is closed, your file can be retrieved for up to 12 months after the closing.

Q: How do you reload a tape file to disk? How long will it take?

To restore a tape file, you need only to access the file (using **GET**, **ATTACH**, or **ACQUIRE**) to make the system reload the data to disk. Your job will then wait for the file to be restored. In order to restore the file, a tape must be mounted and read; therefore the time it takes to restore a file is that time required for the operators to process a tape request plus the time it takes to read the tape, which can vary depending on the number of other tape requests and other jobs they are handling.

Q: Can you reload a tape file to disk without having to wait for it?

Yes. Use **GET**, **ATTACH**, or **ACQUIRE** with the **RT** (real-time) parameter. The **RT** parameter requests that the file data be restored, but allows your job to continue with other work (it does not wait for the reload to complete). The system will restore the file data automatically.

```
GET,file/RT
{Allow enough time for the files to be reloaded.}
GET,file
```

The first **GET** command requests that ***file*** be restored to disk. If ***file*** is a tape file, then the **GET** with **RT** reloads the file but does not create a local copy of it — therefore the second **GET** is necessary to make the file local after the archived file has been reloaded. If ***file*** is already on disk, the **RT** parameter is ignored and the second **GET** is

not needed, but ensures that the file is local to your job.

Q: How do you keep files from getting written to tape and released?

We encourage users to allow files to be dumped to tape if they haven't been accessed in a month, since it is easy to have the files reloaded when you need them and you will have lower storage costs. However, there are files that need to reside on disk, like a PROCFIL or LOGIN file that are needed just to log in. To make sure these files remain on disk, use the **CHANGE** command with the **PR=L** parameter. **PR** stands for Preferred Residence and **L** means Lock to disk.

```
CHANGE,file/PR=L
```

This method should replace those procedures that were used under the old system to access files (or "tickle" them) regularly to avoid archival.

We strongly discourage users from "tickling" files under this new system. If you have a number of files on tape, a "tickle" can unnecessarily tie up a tape drive for hours.

Q: How much will it cost to keep files on tape? How much to reload files?

The storage cost of a tape-resident file will be one-tenth that of its disk-resident copy. The cost to reload files will be the cost of an internal tape mount (44 cents) plus 50 cents per file plus 34 cents per mega-character reloaded.

Q: Can you force your files to be on tape?

You can specify that you prefer that your files reside on tape by using the **PR=T** parameter on the **CHANGE** command:

```
CHANGE,file/PR=T
```

PR=T does not guarantee that your file will be on tape and not on disk; it only requests that tape residence is *preferred.* The amount of available disk space on the CYBER CA determines whether your file is stored on tape. These files will be the first released from disk.

Q: If a file has been dumped to tape, but not yet released from disk, can I get rid of the disk copy to save money?

The **DROPDS** command will manually release the disk space of a file that also resides on tape.

```
DROPDS,file
```

If you use **DROPDS** on a file that does not have valid tape copies, it will abort with the error message `NO ALTERNATE STORAGE COPY OF FILE.`

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Q: How do you purge a file that is on tape?

Use **PURGE** to remove tape files from your catalog just as you do with disk files. The catalog entry on disk will be removed immediately and storage charges will stop accruing.

Q: What happens if you purge a tape file by accident and want it reloaded?

The file restoration procedure has not changed. Tape files are backed up like disk files and can be restored. To do so, call File Restoration at 626-0595.

Q: Using a procedure to access all files took a very long time. Why?

Procedures or programs that access files individually will take a long time if some files reside on tape. Each **GET**, **ATTACH**, or **ACQUIRE** of one tape file will wait until that file is restored, and then go on to the next. Since files no longer disappear from your account at the end of the month, such procedures or programs should not be needed. If, for some reason, you want to restore all your tape-resident files at once, you can use the **RESTORE** command. **RESTORE** will request that all tape files be restored to disk.

The information in this and the February article are in the on-line document WRITEUP,PFSTAGE. For information on the various parameters of **GET**, **ATTACH**, **ACQUIRE**, and **CHANGE**, see WRITEUP,COMMAND=GET+ATTACH+ACQUIRE+CHANGE. Find **DROPDS** information in WRITEUP,COMMAND=DROPDS. Use WRITEUP,RESTORE to find out about the **RESTORE** command.

If you have problems with the new archiving system or questions about it, please call our HELP-Line at 626-5592.

Graphics

Tellagraf Removed on June 12

Michele Lewis
BITNET: MAL@UMNACVX

In our February and April issues, we announced that the graphics package Tellagraf would be removed from VX on June 12, 1988. By the time our readers receive this issue, the Tellagraf package will no longer be available.

We are advising users to try out the Precision Visuals package PicSure, and 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 this writeup

ACSS$WRITEUP_:[GRAPHICS]PVI.LIS

or the introductory article in the March 1987 issue of the *ACSS Newsletter*. In addition, the Computing Information Center in 128A Lind Hall has a PicSure manual you may examine.

Changes in 1988 Rates and Services

L. A. Liddiard

Rationale

ACSS uses the following criteria in its rate and service structure:

1) Charge for computing resources in a consistent manner.

   On ACSS central systems, we charge for the CPU cycles, data transfers, mass storage, and connect time you use.

2) Ensure identical jobs have repeatable charges.

   Example: Page faults on virtual and job swaps on fixed memory systems are not charged since this resource usage varies widely under different system loads.

3) Exploit cost savings due to new technology.

   Example: Equivalent jobs have CPU charges on UX that are 60 percent of VX, which is 60 percent of CA.

4) Conform to the principles of Federal OMB Circular A-21.

   Briefly, A-21 states that charges to federally sponsored projects must be based on actual costs, and when charges are made via a rate, the rate must be uniformly applied to all users of the facility. A-21 ensures that research and graduate computing grants given by ACSS must be covered by real University funds.

5) Continue specific services as long as possible; offering conversion and upwardly compatible replacements when some services must be phased out.

July 1 Rate Increases

We will increase printer page charges from 3.5 to 4.0 cents because of a decrease in printing usage and a 40 percent increase in paper cost since fiscal year 87.

July 1 Rate Decreases

1) We will cut SBU data transfer rates (NV,UX,VX) from 34 to 24 cents per megabyte (30 percent reduction).

   For data transfer an integral multiplier is selected such that multiplier*SBU-rate is approximately equal to rate/megabyte. Current mulipliers of 5 (NV), 17 (UX) and 3 (VX) will change to 4 (NV), 12 (UX), and 2 (VX). This will decrease average job charges on VX by 4.5 percent and on UX by 13.5 percent.

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2) Mass storage charges (CA,NV,UX,VX) will be reduced from 35 to 32 cents/Megaunit day (8.5 percent reduction). This same percentage reduction will apply to disk unit monthly rentals.

Discontinued Services on Current Rate Sheet

1) Mounts or rental of single density (117M) disk units for CA.

2) Printronix in graphics mode (VX).

Current Services to be Phased Out in Fiscal 1989

1) Calcomp four-color pen plotter (usage transferred to Versatec color plotter).

2) Varian black and white plotter (usage transferred to Versatec color plotter).

3) Seven-track magnetic tapes (conversion process to nine-track tapes to be announced).

4) Permanent file restoration from monthly archive (last archive dump was April 1988).

Current Rate Changes under Consideration

1) Decrease in telnet connect charges to allow economical and continuous mail connections.

2) Decrease in UX mass storage charges when we can acquire a lower cost subsystem.

3) Decrease in UX SBU rate if use continues to grow.

4) Increase in laser printing charge if paper costs continue to increase.

Holiday Hours

Independence Day Hours

In observance of Independence Day, ACSS systems – the CYBER 855 (CA), VAX 8650 (VX), ENCORE (UX), and CYBER 830 (NV) – will run in unattended mode from 6 a.m. Monday, July 4, until 6 a.m. Tuesday, July 5. Normal operations on all systems will resume at 6 a.m Tuesday, July 5. It is unlikely that any tape requests (including accessing tape-resident files on CA) or printing will be processed during Independence Day Hours.

ALL-IN-1:
The Desk Calculator and Time Management System

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Jill McAllister
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This article concludes the series describing features of the ALL-IN-1 office automation system on the VAX VX. Thus far we have addressed the following topics: an overview, electronic messaging, ALL-IN-1 documents and folders, nicknames, and distribution lists.

Two other ALL-IN-1 features that may interest our users are the Desk Calculator and the Time Management subsystems.

The Desk Calculator

The Desk Calculator subsystem lets you use your terminal as a calculator. When you invoke this subsystem, the Desk Calculator screen is displayed on your terminal and you have access to the several functions of the calculator by using your keyboard. Its use is described in detail in ACSS$WRITEUP_:[ALLIN1]CALCULATOR. LIS.

The Time Management Subsystem

The Time Management subsystem allows you to manage several functions. You can manage a meeting calendar that is "open" to other members of your organization or co-workers, as you choose. This allows individuals and groups to set up meetings at times when it is convenient for all participants. You also have the ability to set up **appointments**, a term in ALL-IN-1 which means a meeting with someone not on the ALL-IN-1 workstation.

Time Management also lets you set up **reminders** for yourself. When you log into ALL-IN-1, the reminders for that day will be printed on your screen. Or you may choose to set up a list of **action** items. These are tasks that you want to remember or complete by a specific date. You may then display these items for any given date. If your list is of items not associated with any particular dates, you may put them in a To-Do list instead.

The Time Management features of ALL-IN-1 are described in detail in the on-line document ACSS$WRITEUP_:[ALLIN1]TIME.LIS. There is more information on ALL-IN-1 in the other on-line WRITEUPS. To see the list of files available, type the command

```
$ DIR ACSS$WRITEUP_:[ALLIN1]
```

To see the file you select, type

```
$ TYPE ACSS$WRITEUP_:[ALLIN1]name.LIS
```

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where ***name*** is the name of the file. Remember that there is good on-line training for ALL-IN-1. To use this training for the Desk Calculator, type **CA** for the Calculations subsystem, and then **TR** for training. To use this training for the other subsystems of ALL-IN-1, just enter **TR** from any of the subsystem menus (such as Desk Calculator or Time Management), or from the Main Menu.

Validations and Questions

If you would like to be validated to use ALL-IN-1, or would like to add DECtalk to your validations (see the article in the February 1988 issue of the *ACSS Newsletter*), please call Jill McAllister at 626-1878. Also call if you have any questions or are experiencing any problems with ALL-IN-1.

Communications

E-Mail Trial and Tribulations

R. L. Gulbranson

During the end of April and the first few days in May one of the BITNET nodes that is responsible for passing our mail out to the greater part of BITNET was down for several days due to a disk failure. While failures of parts of BITNET are common and are usually resolved within minutes or hours at the latest, this failure was more serious.

Unfortunately, our perception of the problem led us to believe that it would be repaired much sooner. While the failure itself was beyond our control, the process of promptly informing our users about this problem was not. We apologize for any inconvenience you may have experienced due to lack of information about this problem.

It should be noted that BITNET mail, and other forms of national and international electronic mail (E-mail), are done on a "best effort" basis by ACSS and at the other sites. There are no guarantees of timely delivery of mail. While E-mail may get through within hours most of the time, this is not always a given. If you feel that your E-mail is experiencing delivery problems there are several things that you can do:

1. You can check the LINKFAIL topic (within MAIL on UMNACCA, within notes on UMNACUX, and within NOTES on UMNACVX). This topic contains messages that are sent out by BITNET site administrators when they expect a problem or have resolved one. Unfortunately, not all site administrators send out these announcements.

2. You can call the ACSS HELP-Line. Our staff can check into your difficulties and in most cases determine the cause of the problem.

3. If your messages are of sufficient importance, you may wish to consider alternate forms of delivery. Backing up mail delivery can be just as important as backing up your disk files. While backing up mail generally is considered an automatic or automated process, you should not be unrealistically dependent upon it.

Using the Run Time Library with Lisp

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UX and VX: RAZ
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The Run Time Library (RTL) is a collection of procedures that perform a wide range of general utility operations including mathematics, screen management, and file management. You can use any of these procedures in Vax LISP instead of writing code to perform the same function.

This call-out facility is described in detail in chapter 2 of the *VAX Lisp/VMS System Access Programming Guide.*

You can obtain a complete list of procedures and image names by typing

```
$ library/list/names sys$library:imagelib
```

at the main VMS prompt.

The following Lisp code gives two examples of using the RTL from Lisp:

```
Lisp>           (define-external-routine
                (date     :image-name "LIBRTL"
                          :entry-point "LIB$DATE_TIME"
                          :result fixnum)
                (datestr :lisp-type simple-string
                          :vax-type :text
                          :access :IN-OUT))
```

This defines an external routine for getting the date and time.

```
Lisp> (setq thedate "01-JAN-1988 14:24:27.98")          ;; Bind thedate to a string.
Lisp> (call-out date thedate)                           ;; Call the RTL procedure 1.
Lisp> thedate
"29-APR-1988 06:46:27.98"                               ;; Returns current date and time.
```

The following defines an RTL routine which returns the arc cosine of a number in radians.

```
Lisp>         (define-external-routine
              (MY-ACOS          :image-name "MTHRTL"
                                :entry-point "MTH$ACOS"
                                :result single-float)
              (x   :lisp-type single-float
                   :vax-type :s-floating))
MY-ACOSD
```

To call the procedure execute the command:

```
Lisp> (callout MY-ACOS 0.5)
1.047198
```

For further information on Run Time Library procedures see the VAX/VMS manuals volumes 8B and 8C, available at the Computing Information Center, 128A Lind Hall.

A Reminder: Unused Packages to be Deleted from CYBER CA

Michael J. Frisch
VX, UX, CA MAIL: MJFRISCH
BITNET: MJFRISCH@UMNACVX

The following packages will be removed from the CYBER CA on June 12 because they are not being used as far as we can tell.

ALMAP	An algebraic manipulator. To our knowledge, the REDUCE2 package can do all that ALMAP can.
AUGMP	AUGMENT Multiple Precision package.
FEMPAC	Instructional finite element package. The ANSYS package on the VAX VX can do all that FEMPAC can.
FORPREP	Fortran preprocessor used with ALMAP.
FUNPACK	Special functions library. The IMSL library contains these functions.
GPM	Nonlinear optimization library. The GRG2 library can do all that GPM can and more.
MP	Multiple Precision library used with AUGMP.
NONSAP	Nonlinear structural analysis package. The ANSYS package on the VAX VX can do all that NONSAP can.
PERTCST	Program Evaluation and Review Technique, cost analysis package (PERT/COST).
PERT78	Program Evaluation and Review Technique package (PERT/TIME). Microcomputer packages (such as MacProject on the Macintosh) can do much more than PERT78 can do for small to medium-size problems.
SAP4	Linear structural analysis package. The ANSYS package on the VAX VX can do all that SAP4 can.
SIMPLX	Linear programming library. The IMSL library can solve these problems, too.

For Sale

Full set of documentation for Digital RT 11 operating system. You can have it for the asking. Contact Gerald M. Siegel, Department of Communication Disorders, 110 Shevlin Hall, 624-3322.

ACSS Short Courses

Summer Session 1988

Registration begins June 1.

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	June 21-30	TTh	2:30-4:30 pm
Introduction to NOS 2 Operating System	CPL	July 6-15	MWF	2:30-4:30 pm
UNIX Brief, Operating System	TEK	July 18-21	MTh	2:30-5:00 pm

Advanced

Using SPSS^x (Statistical Package)	DLF	June 13-17	MWF	2:30-4:30 pm
Electronic Mail (VAX, BITNET)	JHS	July 12-14	TTh	2:30-4:30 pm
SIR (Data Base Management)	PJO	July 25-29	MWF	2:30-4:30 pm
Beginning C Programming	JLM	July 26-August 11	TTh	2:30-4:30 pm

MICROCOMPUTER COURSES

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

IBM and IBM-compatible Courses

Limited to 10 people.

				(1) (2) (3)
Introduction to Micros: MS-DOS				
Section 1	July 12-14	TWTh	1:30-3:30 pm	$40,$50,$80

Macintosh Courses

Hands-on. Limited to 10 people.

If you have not used a Macintosh before, it would be helpful to attend a Fundamentals session before taking other Macintosh Courses.

Macintosh Fundamentals				
Section 1	July 6	W	12:15-1 pm	FREE
Section 2	August 4	Th	12:15-1 pm	FREE
				(1) (2) (3)
Introduction to Microsoft Word for the Macintosh				
Section 1	June 28-30	TTh	1:30-4 pm	$35,$45,$85
Section 2	July 20-21	WTh	9:30-noon	$35,$45,$85
Introduction to Excel				
Section 1	July 27-28	WTh	1:30-4 pm	$35,$45,$85

Using HyperCard					
	Section 1	August 2-3	TW	1:30-3:30 pm	$25,$35,$60

SHORT COURSE INFORMATION

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

Limits: All microcomputer classes and many mainframe 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 check, or include a signed University journal voucher with registration information. No cash, please. 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 before the beginning of the class.

Note: Monday, July 4 is a University holiday. No classes will be held.

SHORT COURSE POLICY

Each quarter ACSS offers a large number of free computer short courses for the University community. Although theses 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 a 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 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 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.

COMPUTER SHORT COURSES

St. Paul Computing Services - Summer Session

Intro to CMS	**July 6, 8, 11, 12**	**W,F,M,W**	**3:00 - 5:00**

(CMS is the operating system on the IBM 4381. Learn to edit and submit programs and communicate with other computer users.)

CMS MAIL and BITNET	**July 7**	**Th**	**3:00 - 5:00**

(Presentation of the electronic mail capabilities on the CMS system - local and worldwide.)

YTERM Demo	**July 12**	**T**	**3:00 - 4:00**

(Demo of YTERM, a terminal emulation and file transfer package for the IBM PC.)

CMS Advanced Topics I	**July 15**	**F**	**2:00 - 5:00**

(Presentation of CMS tape management facilities and various other CMS topics.)

SAS	**July 18, 20, 22**	**M,W,F**	**2:00 - 4:00**

(Presentation of the SAS system for statistical analysis, graphics, and programming.)

TinCan Demo	**July 19**	**T**	**3:00 - 4:00**

(Demo of TinCan, a terminal emulation and file transfer package for the Macintosh.)

CMS Advanced Topics II	**July 21**	**F**	**2:00 - 4:00**

(Introduction to the CMS EXEC language, including examples of XEDIT macros.)

Intro to SAS/GRAPH	**July 25**	**M**	**2:00 - 4:00**

(Introduction to SAS graphics capabilities.)

PC SAS Overview	**July 27**	**W**	**3:00 - 5:00**

(Introduction to the PC version of the SAS system.)

Intro to NOMAD2	**Aug. 4**	**Th**	**3:00 - 5:00**

(Introduces NOMAD2, a database management system with powerful report writing and programming features.)

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.

Student Bookstore Carries ACSS Manuals

Paula Goblirsch
BITNET: PMG@UMNACVX

The Student Bookstore in Dinkytown, 310 5th Ave SE, has the following ACSS manuals in stock:

UNIX: Beginner's Guide
UNIX: Beginner's Reference
UNIX: Programmer's Guide
UNIX: Programmer's Reference
Introduction to UNIX Computing
Introduction to CYBER NOS Computing
Guide to Application Packages: Statistics

Patches Applied to SAS 5.16 on VX

Sharon A. Krmpotich
BITNET: SAK@UMNACVX
VX MAIL: SAK

During the week of April 25, we applied vendor-supplied patches to SAS Version 5.16, which runs on the VAX (VX). These patches purportedly remedy some of the bugs known to the SAS Institute and are intended to alleviate most of the small number of problems our users have been experiencing with SAS. It remains to be seen how effective these patches are.

The SAS Institute sent us documentation that was as thick as the St. Paul phone book, but said very little that was worth noting. This document has been reduced to a more manageable size (10 pages) and is available as a writeup on VX. This writeup describes the bugs that were fixed by the patches. Some of the more noteworthy items include:

1) **PROC FREQ** should no longer produce an error message when the **MISSPRINT** option is used and the data contain mostly missing values for the variables being processed.

2) When writing the value of a variable with the **PUT** statement, if the value of the variable is a negative fraction and the output field width is 1, then the **DATA** step should no longer print garbage or cause an access violation.

3) **PROC GLM** has been modified to accommodate larger models and also a **LINESIZE** value greater than 121.

4) The standardized parameter estimates produced by the **STB** option on the model statement in **PROC REG** were incorrect for nointercept models.

5) In **PROC RSREG**, the partitioning of the **TOTAL ERROR SS** into **LACK OF FIT SS** and **PURE ERROR SS** performed by the **LACKFIT** option on the **MODEL** statement was incorrect if a **WEIGHT** statement was used.

If you wish to read about all of the bug fixes, you can access the writeup by entering the following VMS command:

```
$ TYPE ACSS$WRITEUP:SASPATCH
```

The writeup lists all of the patches that were applied to SAS on the VX. If you have specific questions, call the Statistics HELP-Line at 626-1887 from 1 to 3 pm Monday through Friday.

TSP Upgrade

Bruce A. Center

I have reinstalled **TSP 4.0** on the CYBER CA in order to increase the available workspace of the program. The new version permits 85,000 words of memory; the old version allowed 15,000 words. The new version also executes slightly faster than the old one: I expect approximately a 15 percent savings overall. Otherwise, there should be no changes apparent to the user. If this is not the case, if a program worked under the old version which does not run under the new one, please call the Statistical HELP-Line at 626-1893.

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
LUMINA	626-2206
LUMINA Consultant	626-2272
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
West Bank Computing Services	624-0877

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

PUBLIC LABS TWIN CITIES CAMPUS

Location	Mainframe Printing	Interactive	Micro
East Bank			
ApH 204	Closed for remodeling		
Arch 148			X
CenH		X	
ComH		X	
DiehlH 207, 270	2	X	X
EddyH Annex 54			X
EltH 121, 124	1	X	
FolH 14, 14a	1,2	X	X
FronH		X	
LindH 26		X	
LindH 128B	2,3	X	
LindH 306B			X
MasCanCtr M39		X	
MechE 308		X	
MoosT 8-425			X
Nich 109			X
Phys 130	2	X	X
PioH		X	
SanH		X	
TerrH		X	
VinH 4		X	
VinH 203			X
WaLib 9	2	X	X
West Bank			
AndH 170	2,3		X
BlegH 140	1	X	
MdbH		X	
OMWL B2			X
St. Paul			
BaH		X	
CentLib B50			X
ClaOff 125E	1	X	
ClaOff B22			X
McNH 69	2		X
Vet 43b			X

1 - Dot-matrix line printers allow printing from CYBER CA only.
2 - Laser printing available from ENCORE UX and VAX VX.
3 - Laser printing available from the CYBER CA.

SYSTEM OPERATING HOURS

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

Contents

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Acting Director of ACSS: *Michael M. Skow*
Editors: *Steven Brehe, Paula Goblirsch*

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Direct comments, suggestions, articles, and announcements to the editors at the address below, or call (612) 626-1828 or 626-1093. For a free subscription call (612) 625-7397, or send your name and address to the Computing Information Center, 128A Lind Hall. Electronic Mail: YZE6075@UMNACCA, YZE6085UMNACUX, or MAD@UMNACVX. On-campus address changes *must* include your department's name and your *departmental* address.

The **ACSS**
Newsletter

Academic Computing Services and Systems

Technical Publications
100 Lauderdale CF
University of Minnesota
2520 Broadway Drive
Lauderdale, Minnesota 55113

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