



Wayne State University

Computing Services Center

NEWSLETTER

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Dr. Arthur Gloster, Acting Director of the CSC; Dr. Peter Spyers-Duran, Director of University Libraries; and James Williams II, Assoc. Director of Libraries, demonstrating the NOTIS system.

New Online Library System at WSU

The CSC and WSU Libraries have joined forces to implement a new online integrated library system at Wayne State. The Northwestern Online Integrated System (NOTIS) has been chosen as the software package that will be used for the WSU Library project. The NOTIS system was first developed by the Northwestern University Libraries and features the following library functions:

- online public access catalog
- circulation
- cataloging and serials control
- acquisitions
- data base management
- authority record management

This system will allow all the University libraries (which include Purdy/Kresge, Science, Law, Medicine, and Pharmacy and Allied Health) to access records already available on magnetic tape for the initial online database. Public terminals will be available throughout the campus libraries for easy access to the system by library users.

NOTIS will run on the IBM 4381 which the Libraries have purchased from the CSC. The NOTIS system components will be phased in over a two year period with the online catalog being the first function available.

The WSU Library NOTIS system will be available to other Detroit area libraries including public, university and special libraries through a non-profit corporation

called DALNET (Detroit Area Libraries Network).



Louise Bugg, Asst. Director of Library Automated Systems; Frank Burejsza, Supervisor of Communications for the Operating Systems and Communications Dept.; Dorothy Fox, Senior Applications Programmer for University Libraries (formerly a Senior Programmer from MISC); Rick McCreedy, Lead Systems Programmer for Operating Systems and Communications Dept.; and Randy Menakes, NOTIS systems engineer from Northwestern University, are shown during initial testing and implementation of NOTIS system.

Through WSUnet network facilities, DALNET member libraries will be able to use and share resources with WSU and all participating libraries in DALNET. This project is a unique experience in library networking and will be used as a prototype for other universities involved in automating their libraries.

More news on the implementation of NOTIS and DALNET will be featured in upcoming issues of the *CSC Newsletter*.

Tony Falzon and Janet Zimmerman

New Disk Drives For MVS

The CSC has installed new IBM 3380 disk drives for MVS, which replace the CDC 3350 disk drives. Because the new disk drives have almost two and one half times the track size of the old disk drives, it will be necessary

for MVS users to follow different procedures when allocating space for permanent MVS datasets.

The number of bytes per track on the 3380 disk drive is 47476, compared to 19069 bytes per track on the 3350 disk drive. When allocating space for a permanent MVS data set with the SPACE parameter on the DD JCL statement, use of the TRK parameter can lead to over-allocation of space because of the larger track size of the 3380 drive.

To better utilize space and provide device independence, it is recommended that MVS datasets be allocated by blocks instead of tracks (TRK) or cylinders (CYL). Use the following steps to determine the space requirements for a standard dataset:

1. Determine the logical record length
2. Determine the approximate number of records in the file, including room for growth
3. Determine the blocksize of the dataset (23476 is the largest and most efficient blocksize for sequential datasets)
4. Calculate the number of logical records per block
5. # of blocks = # of logical records # logical records/block.

To allocate disk space in blocks, the following space parameter prototype is used in the DD statement:

SPACE = (blksize,(#-of-blks,secondary),RLSE)

The primary quantity requested should accommodate a normal amount of data. Secondary allocation should allow for anticipated growth. Always code the RLSE keyword. Use the block allocation for all datasets. If you must obtain cylinder allocation, use the ROUND keyword in the SPACE parameter. No dataset that occupies less than one full cylinder of space should be allocated using the cylinder (CYL) keyword in the SPACE parameter.

All MVS datasets must be cataloged. UNIT=USER should continue to be used when coding job control cards.

Coni Walters

Student Computer Accounts Update

Over 1,000 Wayne State students have already obtained MTS student computer accounts during early registration for Winter Term 1986. These accounts can be used to store programs and data for courses requiring the use of the computer, as well as for writing reports and research papers for other courses. This

program replaces the use of departmental course materials fees for academic computing and provides students with greater access to the computing facilities of the University and more computing for their dollar.

Accounts are available to any undergraduate or graduate student possessing a current WSU identification card. Accounts will be distributed during final registration and require no initial expenditure on the part of the student. For students wishing to open an account a *Student Computer Account Form* must be completed. Forms are available from the CSC, Student Center Building Satellite, and all College of Lifelong Learning Extension Centers. A copy of the application is in the MTS file HELP:STUFORM.

The first \$10 of computing is given to students. This initial allocation should provide about 25 hours of terminal time. Funds can be added to the accounts by personal check or a fee card purchased from the Cashier's Office. The check or fee card is mailed along with a *Student Computer Account Form* to the CSC Billing Office.

More information on Student Computer Accounts can be found in the MTS file HELP:STUACCT. If you have any questions, please contact the CSC Consulting Office at (313) 577-4778.

Sandra Pharms

Purging CMS Spool Files

The CSC is initiating a policy for purging CMS spool files. Any reader, print, or punch files over 32 days old will be removed from the system beginning on February 1, 1986. This policy may affect users of the Professional Office System (PROFS) who rarely log on to read their incoming mail. Users are encouraged to process their spool files regularly to prevent the loss of any data.

Northern Michigan SCP Dial-up Services

SCP dial-up access numbers are now available in Traverse City, (941-9826), Cadillac (775-3760), Petoskey (347-8881), and Freesoil (464-5542). One port is currently available at each of these sites and there is a \$2.00 per hour surcharge for line usage. SCP dial-up service allows users who live within local calling distance of one of these sites to save costly telephone charges by calling the SCP dial-up number nearest to them.

A SCP was recently installed in Cheboygan and is currently linked to the SCP in Traverse City. In the near future, the Cheboygan installation will be used to

link two installations in the Upper Peninsula. More information about the SCP installation in Cheboygan will appear in the March 1986 issue of the *CSC Newsletter*.

Sandra Pharms

Electronic Mail For Consulting and Network Control

Messages can be sent to the CSC Network Control Center and the CSC Consulting Office using both MTS and PROFS® (Professional Office System).

To use PROFS, you must have a CMS logon id. CMS logon ids can be requested from the CSC Billing Office. CMS logon procedures are described in Technical Memo 49, *Terminal Access to WSUnet*. (Also available online in the MTS file DOCT:WSU49.WSUnet) PROFS displays "menus" which lists tasks that it can perform for you. In the menu, each task is associated with a program function (PF) key on your terminal keyboard. You tell PROFS what to do by pressing the PF key associated with the task. PROFS provides a "help" screen if you are not sure how to proceed.

After logging on to CMS and obtaining the PROFS "Main Menu" screen, press the PF4 key to display the "Process Notes and Messages" screen. Press the PF1 key and PROFS will display the "Send A Note" screen. On the "Send to:" line type in "NCC" for the Network Control Center or "CONSULT" for the Consulting Office. Enter the subject of the note on the "Subject:" line. On a new line, enter the text of the note and press the PF7 key to send it. PROFS will confirm that your message has been sent. Press the CLEAR key and then press PF12 to return to the "Main Menu" screen.

Messages to the Consulting Office, Distribution Window, and the Network Control Center can also be sent using the MTS MESSAGESYSTEM. To send messages to one of these departments, sign on to MTS and type MESSAGE at the "#" prompt. MTS will prompt you with "@". Type SEND and MTS will respond with "To:?" Enter the department name you wish to message: "CSC Consulting"; "Distribution"; or "Network Control Center". Next, press the ENTER key and you will be prompted with "Text:?" After entering your message, press ENTER twice. MTS will respond with "Post, Edit, Display, Destroy, Help". Enter POST to send the message. MTS will confirm that your message has been sent and give you a message number.

Sandra Pharms

PROFS is a software product of International Business Machines

Micros

Computer Security and Crime Prevention

Editor's Note: The following information has been compiled from the brochure, "Take A Byte Out Of Crime," prepared by the WSU Department of Public Safety in cooperation with the Computing Services Center. The brochure is available in the Crime Prevention racks located in the Student Center Building and Mackenzie Hall. For more information on computer security and crime prevention contact the Public Safety Department, Crime Prevention, at (313) 577-2053. The Michigan Computer Law can be found online in the MTS file DOCU:COMPUTERLAW.

The enormous growth in the use of computers has given new opportunities for people to commit criminal acts. It is estimated that 200,000 computer related offenses occur each year. These offenses range from game playing to outright theft. Computer related crime in a University setting could result in the loss of valuable research material, notes or data which took months or years to compile. It could also mean the loss of salary information, transcripts, employee files, exams, or other information. When coupled with the problems brought on by the loss of valuable equipment, it makes sense that protection of computer hardware, software and related information is a vital necessity.

Microcomputer Security

The CSC recommends that microcomputer users take the following precautions to protect themselves against computer crime:

- Request a free Security Survey of your area by Public Safety (University areas only).
- Control access to the microcomputer facility during open and closed hours.
- Control access to the computer equipment during open and closed hours.

- Easily moved equipment must be secured to a fixed object. Public Safety can help you make plans to secure your equipment.
- If possible, arrange your equipment to restrict viewing of the computer screen to only the operator.
- Record the make, model and serial number of all equipment and keep it in a central location.
- Should your system need repair, make sure that a reputable firm is used and check the identification of all repair personnel.
- Protect your diskettes and tapes by placing them in a locked area.
- Make additional backup copies of vital data and software at regular intervals, and keep them in a separate location.
- If your computer system can be accessed via a modem, a software or hardware protection package should be used to guard against unauthorized access.
- When choosing a microcomputer system, an operating system with password or file locking abilities should be considered.

Mainframe Security

The CSC recommends the following precautions for users of the campus mainframe systems:

- Use as long a password as you can. Use a combination of letters, numbers, and special characters.
- Do not use names for passwords (spouses, friends, children, and so forth). Names can easily be associated with you.
- Memorize your passwords. Don't write them down in an unsecure location, such as on a bulletin board or a piece of paper.
- Never store passwords in computer files where someone may find it.
- Change your password often, at least on a monthly basis.
- Don't permit your files to everyone. Permit files in the most secure manner possible. At regular intervals, check the permit status of your files and change it accordingly.
- Always check to be sure that people working in your immediate area cannot observe your hands while typing in your password.
- Don't leave your terminal unattended when a session is active.
- If you feel that your password has been compromised and someone else is using your account, contact Public Safety **before** having the password reset.

Printed Output

Looking through printed output is one of the most common methods for finding information to be used to break into an account. The CSC suggests that you follow these recommendations:

- When discarding printouts, they should be destroyed to the point where they will not be useable. It is recommended that all such paper be shredded.
- The trash basket or dumpster is the first place a potential thief will look to get information to access your system. You may wish to dispose of output off the premises.

General Recommendations

- Programmers should always be given written instructions.
- Controls should be written into the programs which cannot be overridden.
- Responsibilities for writing, authorizing, and modifying programs should be divided.
- Program production and de-bugging activities should be divided between two or more employees.
- One person in the department or organization should be responsible for data processing security. This person should also be the liaison between the department and Public Safety.
- All incidents of tampering must be reported to the person in charge of data processing security.
- An inventory should be conducted periodically to account for all hardware, tapes, disks, programs, and other supporting documents.

IBM Displaywrite 3

The CSC has selected DisplayWrite as its principal word processing package for the IBM Personal Computer. IBM DisplayWrite 3 is now available from IBM Corporation. Displaywrite 3 has some improved features over Displaywrite 2, including:

- A cursor draw facility which allows you to create box or line figures within a document.
- An Undo facility which allows you to restore a block of text which you may have deleted using block delete. The system retains the block until you delete another block or until you end the task.
- An automatic outline facility which allows you to create an outline with appropriate tabs and outline characters.

Other features include expanded keyboard memory capabilities, expanded spelling verification, and online help screens.

Displaywrite 3 is compatible with the facilities of the campus computing network, WSUnet. If you would like more information regarding Displaywrite 3 or any of the products in the Displaywrite family, contact the CSC Consulting Office at (313) 577-4778.

Doris Avery

Apples and Oranges: Comparing the APPLE Macintosh and the IBM PC

This is part two of an article that was reprinted from the July 25, 1985, issue of the University of Michigan Computing Center MICRO DIGEST; Volume 1, Number 2. The original article was written by Diane Burns and S. Venit for "PC Magazine", July 23, 1985. The original title was "PC vs. Mac: An Unfair Match?" The first part of the article appeared in the November 1985 issue of the CSC Newsletter.

Of the software testing done by Burns and Venit, only three of the benchmark tests will be mentioned here: word processing, spreadsheet, and programming comparisons. All benchmark tests were done with 512K machines. The IBM PC included a color monitor and graphics card and had a Microsoft mouse attached. One mouse click (or double click) was counted as one keystroke. Keystrokes refers to the number of keystrokes required to perform the function. Time is given in seconds. Results from other tests can be found in the previously mentioned "PC" article.

Word processing capabilities of the two machines were compared using the two versions of Microsoft's Word program. Benchmark testing produced the following results:

	Operation	Time	Keystrokes
PC	Load Word	32	2
Mac	Load Word	21	2
PC	Save a file	25	3
Mac	Save a file	22	1
PC	Open a file	9	3

Mac	Open a file	8	3
PC	Search/replace	8	3
Mac	Search/replace	7	3
PC	Change margins	4	6
Mac	Change margins	3	4

The results in the word processing tests showed that although the Macintosh is considered a "slow" machine for doing word processing, it is actually a bit faster in execution and requires fewer keystrokes when performing usual operations.

Spreadsheet comparisons were done using Lotus 1-2-3 on the PC and Visicorp Crunch on the Macintosh.

Although the IBM PC won the spreadsheet division in terms of execution times, the Macintosh may take less time to learn to use and the mouse makes selection of variables easy. Other spreadsheet programs appearing for the Mac are being released, and may help improve the Macintosh's standing in the spreadsheet competition.

Programming tests were done using Microsoft Basic on each of the machines. All numerical operations were performed a bit faster on the Macintosh, the other results were as follows:

	Operation	Time
PC	Load Basic	4
Mac	Load Basic	24
PC	Save a file	2
Mac	Save a file	3
PC	String concatenation	1
Mac	String concatenation	< 1

There were no significant time differences between programming operations performed on the machines. The most important difference between the two machines has to do with the programming environment. The PC presents the traditional programming environment, while the Mac uses windows to allow a user to do several things without leaving the Basic environment. The programmer may view code, watch the program results (output) and edit the program simultaneously. When an error is encountered, a window will appear in which the program can be edited and restarted. In this way, the Macintosh programming environment represents the state-of-the-art.

It is hard to draw any conclusions about which machine is a "better" business machine by looking at a few benchmark tests. The real answer has more to do with the direction personal computers will take in the future. An interesting solution has been proposed by Data Communications. They have just released "MacCharlie," an add-on for the Macintosh which allows it to run any IBM PC software. No word is out on the usefulness of MacCharlie. For now users are sticking with the machine which best suits their needs, whether it is the Apple Macintosh, the IBM PC or one of its clones, or one of the many other machines on the market today.

Software

*Editor's Note: In the November 1985 issue of the CSC Newsletter, the last sentence in the article "New Compilers on MTS-FORTRANVS" was incorrect. It should have read: NEW:FORTRANVS will be moved to *FORTRANVS on January 6, 1986.*

Permanent Data Libraries in SAS

The MTS version of SAS™ now supports the creation of permanent SAS data sets on disk. You should consider using a permanent data library if you use the same large data set consistently. By creating a library for SAS to read, you no longer need to specify input statements, variable and value labels, or variable conversions. The library will store all this for you. SAS automatically documents your SAS data set(s) and allows you to keep track of its contents.

To set up the library, you must use the following DSDEF statement within the file you assign to GUSER: (this statement must be entered on one line)

```
DSDEF lib = filename DSORG = DA TYPE = DISK
      PERM DISP = NEW WA
```

where *LIB* is the first level of the two-level name given to your data set (such as LIB.DATA1) and *filename* is the MTS file in which SAS will store your permanent

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data library.

The above DSDEF statement should be used in conjunction with any other DSDEF statements needed to call in raw data when the library is being created. Once the library is created, the only DSDEF command needed is the above DSDEF statement, with one exception: DISP=NEW should be changed to DISP=OLD. Whenever you want to add a new data set to the library, change it back to DISP=NEW and SAS will add the new data set without altering any other data set in the library.

To use the data sets in your library use the following SAS commands to call in the data:

```
DATA __NULL__;
SET LIB.DATA1;
PROC
etc...
```

The DATA __NULL__ command tells SAS not to create a new data set and the SET LIB.DATA1 command tells SAS which data set (DATA1) to call in from the library. These commands allow users to perform any SAS procedures on the data. Below is an example of a RUN command using GUSER:

```
run *sas scards = input sprint = -output sercom = -log
guser = ddfile
```

where the file assigned to GUSER (*ddfile*) contains the DSDEF statements.

More information on SAS Data Libraries and two-level names can be found in the *SAS User's Guide; Basics* (1985 Version 5 Edition).

Amy Majeske

CITIBASE Data Base Now Available

The CITIBASE® data base is now available on tape for MTS users. This data base contains over 5000 monthly, quarterly and annual economic time series variables and covers the period from 1947 to the present. The CSC will receive updated tapes every quarter. Documentation for the data base can be found in the *CITIBASE Directory* (New York, N.Y.: Information Services, 1984), which is available from the CSC Documentation Library for \$25.00.

CITIBASE is contained on a public tape. To access the CITIBASE tape, issue the following MTS command:

```
mount 10995 9tp *t* vol = 010995 'CITIBASE.QUART'
```

An easy way to extract variables from the data base is to use the SAS procedure CITIBASE. Documentation on this procedure can be found in the *SAS/ETS User's Guide* (1985 Version 5 Edition).

Amy Majeske

SPSSX Version 2.1 Installed

SPSSX® Version 2.1 is now available on MTS and can be invoked by typing the following MTS command:

```
run new:spssx scards = input sprint = -output
```

*SPSSX (Version 2.0A) will be replaced by Release 2.1 on February 3, 1986. three to six months.

Apart from general bug fixes and enhancements to old procedures, several new functions and procedures have been added to this new release. These new features are summarized below:

- ALSCAL: Multidimensional Scaling Procedure
- PROXIMITIES: Finding Proximities Procedure
- GET SAS: Interface for SAS files
- UPDATE: Update system file with new data
- USERPROC NAME=SEADYN: Plotting organism densities procedure
- USERPROC NAME=COX: Cox model of life tables procedure
- New numeric and string functions including date and time

Currently, there are three optional procedures to SPSSX. The status of these procedures are:

- TABLES: has been ordered, but not yet available
- GRAPHICS: being converted for MTS
- LISREL: already available under SPSSX.

There are some incompatible changes from Release 2.0A to 2.1:

- Arithmetic can no longer be performed on logical expressions.
- SYSMIS(arg) is a logical function and can no longer be used as a number or compared to a number within an expression.
- Different matrices from one file cannot be read into a series of procedures.

CITIBASE is a trademark of CITIBASE N.A.

SPSSX is a registered trademark of SPSS, Inc.

- MANOVA: Default for type of Sum of Squares has been changed to UNIQUE. Print parameter estimates by default are no longer available.
- REGRESSION: Only 1 VARIABLES subcommand is allowed per command. By default, RESIDUAL invokes PRED, RESID, ZPRED and ZRESID only.

For more details on all new enhancements in this version see the *SPSSX User's Guide: Edition 2* (Chicago: SPSS, Inc., 1985). To get information on the new features of specific areas, use the INFO command within an SPSSX run. For example, to obtain the documentation for the new procedure ALSICAL, type the following MTS commands:

```
run new:spss sprint = *print*
info alsical
finish
```

Michael Lefkofsky

New Version of PROFS

IBM has announced a new version of PROFS, the Professional Office System, which is scheduled to be available on March 1, 1986. Additional information on this new version will be announced in the MTS program *NEWS and in a future *CSC Newsbrief*. PROFS is a general office productivity system providing scheduling, document preparation, and electronic mail facilities. PROFS Version 1, release 2 has been available at WSU on the CMS system since October 1984.

Version 2, Release 1 of PROFS provides several new features. Most notable of these is a completely revised and improved calendar facility. These improvements include:

1. the ability to schedule more than one screen of information per day
2. the ability to look at more than one schedule at a time (for example, you could look at the calendars for yourself, a co-worker, and a conference room all at once)
3. easier ways to change your calendar, including copying one or more items to multiple days and the ability to "block out" a particular time on a regular basis (such as a weekly meeting)
4. the ability to automatically update your calendar when you receive a notice of a meeting in your incoming mail
5. the ability to control the security for your calendar (you may now permit or de-permit your calendar to other specific users)

PROFS Version 2, release 1 also offers improvements to the note facility and general improvements to some of the PROFS screens.

With these enhancements PROFS has become an even more important part of our Office Automation strategies. If you would like more information on the improvements to PROFS or if you are interested in becoming a PROFS user, contact Doris Avery, PROFS Administrator, at (313) 577-4777.

Dennis Moynihan

Using The PROFS Note Facility

Probably the most used feature of PROFS is its "Note Facility." With the Note Facility you can send informal messages to any other PROFS user. These messages have the clarity of memorandums but are delivered instantaneously.

When you receive a note in your PROFS incoming mail, you may want to send a response to the author. To reply to a note, press the "Reply" key (PF6 on the "LOOK AT THE NOTE" screen.) This will let you draft a response which is sent automatically to the author of the original note. The recipient of your reply will see the subject line of the original note with your response.

```

                                LOOK AT THE NOTE                                E01
                                Date and time 04/03/84 14:21:33
From: HSEACOMB--CHICAGO4
To: GJOHNSON--CHICAGO4

Subject: New estimates
I will send you the new estimates by Monday. If there are no other updates
coming in from the field offices, we should be able to finish this
up early next week.
```

```

PF1 Up PF2 Down PF3 Add Log Comments PF4 Note PF5 Forward Note PF6 Reply
PF7 Resend PF9 Help PF10 Next Screen PF11 Previous Screen PF12 Return
```

PROFS "Look At Note" screen

Replying to a note does not attach the text of the original note. If you receive even a few notes every day, you may not remember what messages are being replied to.

There is, however, a way to attach the original text to your response. Choose "Forward Note" (PF5 on the

“LOOK AT THE NOTE” screen.) This will let you enter a your response, but will attach the text of the original note. The only other difference between “Forward Note” and “Reply” is that you must specify the recipient for forwarded notes.

Doris Avery

Seminars

Winter Seminars

Below is the schedule for the CSC seminars which begin in January 1986. A detailed description of the content of each seminar is provided in the *CSC Seminar Brochure*, available from the CSC Documentation Library, (313) 577-4802, or by typing:

```
run *pagepr scards = doct:wsu57.smnr
```

The seminars are free of charge to University faculty, staff and students. Small fees are charged to external customers and the general public.

You must register in advance for all seminars by sending a Seminar Registration Form to the CSC. A copy of this form is provided in this issue. Registration forms are also available at the CSC, at the Student Center Building Satellite, and in the MTS file HELP:SEMINARFORM. Telephone registrations are not being accepted at this time. The file SMNR:STATUS contains the current enrollments for the seminars offered during this term. More information concerning seminar scheduling, registration and/or cancellations is contained in the file HELP:SEM.POLICY. Where seminars indicate a prerequisite purchase of diskettes, these should be double sided, double density, 5 1/4" size.

The WSU Chapter of the Association for Computing Machinery (ACM) also offers a series of free seminars. More information about ACM seminars can be found in the file ACM:SEM/SCHEDULE.

General

MTS New User Seminar - Series A

Code: 86-W-NUS -A
 Dates: January 13, 15, 20, 22
 Time: 10:00-12:00 noon
 Location: 109 CSC
 Instructor: CSC Staff
 Class Size: 30 Participants
 External Fee: \$ 60
 Prerequisites: Purchase Introduction to MTS
 Contents: MTS operating system concepts and use of a terminal

MTS New User Seminar - Series B

Code: 86-W-NUS -B
 Dates: February 18, 20, 25, 27
 Time: 2:00-4:00 p.m.
 Location: 109 CSC
 Instructor: CSC Staff
 Class Size: 30 Participants
 External Fee: \$ 60
 Prerequisites: Purchase Introduction to MTS
 Contents: MTS operating system concepts and use of a terminal

MTS New User Seminar - Series C

Code: 86-W-NUS -C
 Dates: March 17, 19, 24, 26
 Time: 2:00-4:00 p.m.
 Location: 109 CSC
 Instructor: CSC Staff
 Class Size: 30 Participants
 External Fee: \$ 60
 Prerequisites: Purchase Introduction to MTS
 Contents: MTS operating system concepts and use of a terminal

Using Magnetic Tapes on MTS - Series A

Code: 86-W-TAPE -A
 Dates: January 27
 Time: 2:00-4:00 p.m.
 Location: 109 CSC
 Instructor: CSC Staff
 Class Size: 30 Participants
 External Fee: \$ 30
 Prerequisites: MTS New User Seminar
 Contents: Skills for using labeled and unlabeled magnetic tapes

Statistics

Change from SPSS to SPSSX - Series A

Code: 86-W-SPSS -A
 Dates: February 11
 Time: 10:00-12:00 noon
 Location: 109 CSC
 Instructor: R. Padgett
 Class Size: 30 Participants

External Fee: \$ 30
 Prerequisites: Knowledge of SPSS
 Contents: Changes in program syntax in version X of SPSS

Change from SPSS to SPSSX - Series B

Code: 86-W-SPSS -B
 Dates: April 8
 Time: 10:00-12:00 noon
 Location: 109 CSC
 Instructor: R. Padgett
 Class Size: 30 Participants
 External Fee: \$ 30
 Prerequisites: Knowledge of SPSS
 Contents: Changes in program syntax in version X of SPSS

Data Analysis with SAS on MTS - Series A

Code: 86-W-SAS -A
 Dates: April 7, 9
 Time: 2:00-4:00 p.m.
 Location: 109 CSC
 Instructor: A. Majeske
 Class Size: 30 Participants
 External Fee: \$ 30
 Prerequisites: MTS New User Seminar
 Contents: Use of SAS to perform statistical analysis on MTS

Data Analysis with SPSSX on MTS - Series A

Code: 86-W-SPSSX-A
 Dates: January 28, 30
 Time: 2:00-5:00 p.m.
 Location: 109 CSC
 Instructor: T. Gietzen
 Class Size: 30 Participants
 External Fee: \$ 30
 Prerequisites: MTS New User Seminar
 Contents: How to use SPSSX, a comprehensive data analysis package

Data Analysis with SPSSX on MTS - Series B

Code: 86-W-SPSSX-B
 Dates: March 10, 12
 Time: 10:00-12:00 noon
 Location: 109 CSC
 Instructor: R. Padgett
 Class Size: 30 Participants
 External Fee: \$ 30
 Prerequisites: MTS New User Seminar
 Contents: How to use SPSSX, a comprehensive data analysis package

Data Base

Database Overview - Series A

Code: 86-W-DBASE-A
 Dates: April 14
 Time: 9:00-11:00 a.m.
 Location: 109 CSC
 Instructor: A. Cumming
 Class Size: 20 Participants
 External Fee: \$ 30
 Prerequisites: None
 Contents: General database concepts and overview of database software

Introduction to MICRO - Series A

Code: 86-W-MCR1 -A
 Dates: March 4, 6, 11, 13
 Time: 2:00-4:00 p.m.
 Location: 109 CSC
 Instructor: Glenn Cummings
 Class Size: 30 Participants
 External Fee: \$ 30
 Prerequisites: MTS New User Seminar
 Contents: Overview of MICRO programs and data set definition

Graphics

Computer Aided Cartography on MTS - Series A

Code: 86-W-CARTO-A
 Dates: March 25, 27
 Time: 10:00-12:00 noon
 Location: 296 CSC
 Instructor: D. Snyder
 Class Size: 30 Participants
 External Fee: \$ 60
 Prerequisites: Knowledge of a high level programming language
 Contents: Use of *DISSPLA, *ASPEX, *CONTOUR and MIDAS Cartograph

Graphics Design and Production with Tellgraf - Series A

Code: 86-W-TELL -A
 Dates: March 4, 6, 11
 Time: 10:00-11:30 a.m.
 Location: 296 CSC
 Instructor: D. Snyder
 Class Size: 30 Participants
 External Fee: \$ 90
 Prerequisites: MTS New User Seminar
 Contents: Producing line graphs, bar charts, pie charts, and lettering

MTS Graphics Software Overview - Series A

Code: 86-W-GRAPH-A
 Dates: January 29
 Time: 10:00-12:00 noon

Location: 296 CSC
 Instructor: D. Snyder
 Class Size: 30 Participants
 External Fee: \$ 30
 Prerequisites: MTS New User Seminar
 Contents: Capabilities and limitations of
 20 MTS graphics packages

MTS Graphics Software Overview - Series B

Code: 86-W-GRAPH-B
 Dates: February 24
 Time: 10:00-12:00 noon
 Location: 296 CSC
 Instructor: D. Snyder
 Class Size: 30 Participants
 External Fee: \$ 30
 Prerequisites: MTS New User Seminar
 Contents: Capabilities and limitations of
 20 MTS graphics packages

Scientific and Technical Graphics with PLOTSYS - Series A

Code: 86-W-PLOTS-A
 Dates: April 21, 23
 Time: 2:00-4:00 p.m.
 Location: 296 CSC
 Instructor: D. Snyder
 Class Size: 30 Participants
 External Fee: \$ 60
 Prerequisites: Knowledge of a high level programming language
 Contents: Introduction to a powerful but inexpensive graphics package

Text Processing

Advanced Displaywrite I - Series A

Code: 86-W-ADW1 -A
 Dates: February 6, 13
 Time: 2:00-4:00 p.m.
 Location: 109 CSC
 Instructor: D. Avery
 Class Size: 8 Participants
 External Fee: \$ 45
 Prerequisites: Knowledge of Displaywrite
 Contents: Topics include GET, STOP Codes, Directories, and Merging Files

Advanced Textform with Typesetting - Series A

Code: 86-W-ATXTF-A
 Dates: March 5
 Time: 2:00-4:00 p.m.
 Location: 109 CSC
 Instructor: M. Edelman
 Class Size: 30 Participants
 External Fee: \$ 30

Prerequisites: Basic Textform
 Contents: Special formatting and introduction to typesetting

Textform - Series A

Code: 86-W-TXTF -A
 Dates: February 4
 Time: 2:00-4:00 p.m.
 Location: 296 CSC
 Instructor: M. Edelman
 Class Size: 30 Participants
 External Fee: \$ 30
 Prerequisites: MTS New User Seminar
 Contents: Introduction to Textform and use of Xerox 9700 printer

Thesis Production Using Textform - Series A

Code: 86-W-THES -A
 Dates: February 26
 Time: 2:00-4:00 p.m.
 Location: 296 CSC
 Instructor: M. Edelman
 Class Size: 30 Participants
 External Fee: \$ 30
 Prerequisites: MTS New User Seminar
 Contents: How to produce your thesis or dissertation using Textform

Word Processing with Displaywrite on the IBM PC- Series A

Code: 86-W-DW -A
 Dates: January 21
 Time: 2:00-4:00 p.m.
 Location: 109 CSC
 Instructor: CSC Staff
 Class Size: 8 Participants
 External Fee: \$ 45
 Prerequisites: How to Use the IBM PC.
 Purchase one 5.25 inch diskette
 Contents: How to use Displaywrite to produce documents

Word Processing with Displaywrite on the IBM PC- Series B

Code: 86-W-DW -B
 Dates: January 23
 Time: 2:00-4:00 p.m.
 Location: 109 CSC
 Instructor: CSC Staff
 Class Size: 8 Participants
 External Fee: \$ 45
 Prerequisites: How to Use the IBM PC.
 Purchase one 5.25 inch diskette
 Contents: How to use Displaywrite to produce documents

Word Processing with Displaywrite on the IBM**PC- Series C**

Code: 86-W-DW -C
 Dates: February 10
 Time: 9:00-11:00 a.m.
 Location: 109 CSC
 Instructor: CSC Staff
 Class Size: 8 Participants
 External Fee: \$ 45
 Prerequisites: How to Use the IBM PC.
 Purchase one 5.25 inch diskette
 Contents: How to use Displaywrite to
 produce documents

Word Processing with Displaywrite on the IBM**PC- Series D**

Code: 86-W-DW -D
 Dates: February 12
 Time: 9:00-11:00 a.m.
 Location: 109 CSC
 Instructor: CSC Staff
 Class Size: 8 Participants
 External Fee: \$ 45
 Prerequisites: How to Use the IBM PC.
 Purchase one 5.25 inch diskette
 Contents: How to use Displaywrite to
 produce documents

Word Processing with Displaywrite on the IBM**PC- Series E**

Code: 86-W-DW -E
 Dates: March 25
 Time: 2:00-4:00 p.m.
 Location: 109 CSC
 Instructor: CSC Staff
 Class Size: 8 Participants
 External Fee: \$ 45
 Prerequisites: How to Use the IBM PC.
 Purchase one 5.25 inch diskette
 Contents: How to use Displaywrite to
 produce documents

Word Processing with Displaywrite on the IBM**PC- Series F**

Code: 86-W-DW -F
 Dates: March 27
 Time: 2:00-4:00 p.m.
 Location: 109 CSC
 Instructor: CSC Staff
 Class Size: 8 Participants
 External Fee: \$ 45
 Prerequisites: How to Use the IBM PC.
 Purchase one 5.25 inch diskette
 Contents: How to use Displaywrite to
 produce documents

Microcomputing**Advanced Lotus 1-2-3 - Series A**

Code: 86-W-ALOTU-A
 Dates: April 1, 3
 Time: 2:00-4:00 p.m.
 Location: 109 CSC
 Instructor: S. Merryfield/A. Cumming
 Class Size: 15 Participants
 External Fee: \$ 90
 Prerequisites: How to Use the IBM PC. In-
 troduction to Lotus 1-2-3 or
 equivalent
 Contents: Data Base, Macro, and Graphic
 Capabilities

**How to Use the IBM PC - A Hands-on Introduc-
tion- Series A**

Code: 86-W-IBMPC-A
 Dates: January 14, 16
 Time: 2:00-5:00 p.m.
 Location: 109 CSC
 Instructor: CSC Staff
 Class Size: 15 Participants
 External Fee: \$ 90
 Prerequisites: Purchase two 5.25 inch
 diskettes
 Contents: Microcomputer concepts and
 introduction to PC-DOS
 Operating System

**How to Use the IBM PC - A Hands-on Introduc-
tion- Series B**

Code: 86-W-IBMPC-B
 Dates: February 17, 19
 Time: 9:00-12:00 noon
 Location: 109 CSC
 Instructor: CSC Staff
 Class Size: 15 Participants
 External Fee: \$ 90
 Prerequisites: Purchase two 5.25 inch
 diskettes
 Contents: Microcomputer concepts and
 introduction to PC-DOS
 Operating System

**How to Use the IBM PC - A Hands-on Introduc-
tion- Series C**

Code: 86-W-IBMPC-C
 Dates: March 18, 20
 Time: 2:00-5:00 p.m.
 Location: 109 CSC
 Instructor: CSC Staff
 Class Size: 15 Participants
 External Fee: \$ 90
 Prerequisites: Purchase two 5.25 inch
 diskettes
 Contents: Microcomputer concepts and
 introduction to PC-DOS
 Operating System

Wayne State University Computing Services Center

Seminar Registration Form

You may register for up to four CSC seminars on this form. For a current schedule, COPY HELP:SEMINARS. For policy information, COPY HELP:SEM.POLICY. For additional information, call 577-4778.

When completed, fold and mail this form to the address shown on the reverse side. You will receive written confirmation for the seminars in which you have been enrolled.

Registration Information

Year: _____ Term (circle one): *Winter* *Fall* *Spring/Summer*

Seminar Title(s):	Series Preference
_____	1st:____ 2nd:____ 3rd:____
_____	1st:____ 2nd:____ 3rd:____
_____	1st:____ 2nd:____ 3rd:____
_____	1st:____ 2nd:____ 3rd:____

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Signature _____ Date: ___/___/___

Phone: _____

Campus/Street Address: _____

City: _____ State: ___ Zip: _____

Please circle one: *Faculty* *Student* *External* *CSC*

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Supervisor Approval: _____
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Computing Services Center
Room 117
5925 Woodward Avenue
Detroit MI 48202

CSC Training Coordinator
Room 117
5925 Woodward Ave.
Detroit, MI 48202

How to Use Lotus 1-2-3 on the IBM PC - Series A

Code: 86-W-LOTUS-A
 Dates: February 5
 Time: 9:00-11:00 a.m.
 Location: 109 CSC
 Instructor: A. Cumming
 Class Size: 15 Participants
 External Fee: \$ 45
 Prerequisites: How to Use the IBM PC
 Contents: Introduction to creating a Lotus worksheet

How to Use Lotus 1-2-3 on the IBM PC - Series B

Code: 86-W-LOTUS-B
 Dates: March 31
 Time: 2:00-4:00 p.m.
 Location: 109 CSC
 Instructor: A. Cumming
 Class Size: 15 Participants
 External Fee: \$ 45
 Prerequisites: How to Use the IBM PC
 Contents: Introduction to creating a Lotus worksheet

How to Use Your IBM-XT - Series A

Code: 86-W-IBMXT-A
 Dates: February 3
 Time: 2:00-4:00 p.m.
 Location: 109 CSC
 Instructor: S. Merryfield
 Class Size: 15 Participants
 External Fee: \$ 45
 Prerequisites: How to Use the IBM PC
 Contents: Preparation and use of the IBM XT fixed disk

How to Use Your IBM-XT - Series B

Code: 86-W-IBMXT-B
 Dates: April 15
 Time: 10:00-12:00 noon
 Location: 109 CSC
 Instructor: CSC Staff
 Class Size: 15 Participants
 External Fee: \$ 45
 Prerequisites: How to Use the IBM PC
 Contents: Preparation and use of the IBM XT fixed disk

Microcomputer to Mainframe Communications - Series A

Code: 86-W-MCP -A
 Dates: March 3
 Time: 2:00-4:00 p.m.
 Location: 109 CSC
 Instructor: S. Merryfield

Class Size: 15 Participants
 External Fee: \$ 45
 Prerequisites: How to Use the IBM PC
 Contents: Connecting the IBM PC to WSU's mainframes using WINDOW and AZPC2

Introduction to MTS Seminar For WSU Students

The CSC is sponsoring three one-hour "Introduction to MTS" seminars for new users in the Student Center Building Satellite, 4th Floor SCB. The seminars are provided as part of the new student computer account program, which was described in the November 1985 issue of the *CSC Newsletter* and in the *CSC Newsbrief #6*, available from the CSC Documentation Library. Topics will include the use of the IBM 3178 and Paradyne terminals, signing on to MTS, creating and editing files, running programs, printing output, and locating online documentation. The schedule of seminars is as follows:

Tuesday, January 21	2:00 pm - 3:00 pm
Wednesday, January 22	7:30 pm - 8:30 pm
Thursday, January 23	10:30 am - 11:30 am

Participants need attend only *one* seminar. No advance registration is required, but each seminar is limited to 120 participants. If you are teaching a course which requires the use of MTS, you may wish to encourage your students to attend.

Addenda

Staff Changes

Richard McCreedy accepted a position as Lead Programmer in the Operating Systems and Communications Department. Mr. McCreedy was formerly a Senior Software Engineer at NASTEC Corporation.

Michael Edelman has accepted a position as Senior Systems Analyst in the User Services Department and will be working in the Applications Group. Mr. Edelman is responsible for text processing services.

Scott Merryfield has accepted a position as Senior Systems Analyst in the User Services Department. Mr. Merryfield is responsible for microcomputer support.

Laura O'Neil accepted a position as Programmer in the Operating Systems and Communications Department. Ms. O'Neil was formerly a student assistant in the Computer and Network Operations Department.

Richard Welch accepted a position as Programmer in the Operating Systems and Communications Department. Mr. Welch was formerly a student assistant in the Computer and Network Operations Department.

Keith Shackelford accepted a position as a Programmer in the Operating Systems and Communications Department. Mr. Shackelford was formerly a student assistant in the Operating Systems and Communications Department.

Christine Dlubisz accepted a position as a Programmer in the Operating Systems and Communications Department. Ms. Dlubisz was formerly the Administrative Computing Systems Coordinator in the WSU Human Resources Department.

Thomas Kozma joined the CSC in November as a Systems Analyst in the User Services Department.

April Lee joined the CSC in November as an Office Assistant I. She will be working for the User Services Department. Ms. Lee was formerly a technician in the Office of Student Services, College of Nursing.

Sandra Pharms

CSC Newsletter

The *CSC Newsletter* is published bi-monthly throughout the year starting in January. Copies are available at the Computing Services Center (5925 Woodward), and at the Student Center Building Satellite (4th floor, SCB). Copies will also be sent upon request to individuals in WSU academic, administrative, and research units or to those affiliated with external (non-University) accounts. In order to have your name placed on the *Newsletter* mailing list, fill out and return the form at the bottom of the next page. All correspondence should be sent to:

Sandra Pharms
CSC Newsletter Editor
Computing Services Center
Wayne State University
5925 Woodward Avenue
Detroit, MI 48202

For The Latest CSC News

The MTS program *NEWS is the principal way by which the CSC notifies users of changes to CSC facilities, services, and operating hours. Bulletins are displayed on the MTS system announcing news items. To view the news items, simply type RUN *NEWS.

Service Changes

Service	Description of Change	Scheduled Date	Actual Date
Hardware....	IBM 3380 Disk Drives Installed		09/14/85
	Battery Backup for Communications Processors	09/14/85	09/14/85
	Xerox 9700/8700 System Software Upgraded	11/09/85	11/09/85
WSUnet.....	577-0670 Hunt Group Removed		11/30/85
CMS	New Version of PROFS	03/01/86	
MTS	New *GENDOC Installed	09/13/85	09/13/85
	*PROFORT Installed		09/26/85
	*UTILISP Installed		09/26/85
	New *SORT Installed	11/01/85	11/01/85
	New *LIBRARY Installed	11/01/85	11/01/85
	*FTNTIDY Moved to OLD:FTNTIDY	12/17/85	01/04/86
	*FTNVS Moved to OLD:FTNVS	01/06/86	01/06/86
	*FTNVSLIB Removed	01/06/86	01/06/86
	NEW:FTNTIDY Moved to *FTNTIDY	12/17/85	01/04/86
	NEW:SAS		09/09/85
	NEW:TELLAGRAF Moved to *TELLAGRAF	01/06/86	01/06/86
	NEW:CUECHART Moved to *CUECHART	01/06/86	01/04/86
	NEW:FORTRANVS Moved to *FORTRANVS	01/06/86	01/06/86
	NEW:SPSSX Available		12/06/85
NEW:SPSSX Moved to *SPSSX	02/03/86		
NEW:DISSPLA Moved to *DISSPLA		01/06/86	
MVS	MVS/SP 1.3.4 Installed	09/27/85	09/27/85
	New Version of Fortran VS	06/29/85	09/27/85
	New Version of Cobol	06/29/85	09/27/85
	Assembler H Version 2 Installed	06/29/85	09/27/85
	New Version of PL1	06/29/85	09/27/85
	SAS Version 5.08		09/27/85
	MARK IV Release 10		12/31/85

CSC Newsletter Mailing Information

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Interests: Graphics IBMPC Mac ProdCtrl PROFS Stat TextProc WSUnet Zenith TP DBase

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CSC Telephone List

Billing Office	577-4642	Network Control Center	577-4746	WSUnet Terminal Lines:	
Consulting Office	577-4778	Reception Desk	577-4762		
Data Entry	577-4765	Student Accounts	577-2067		110-1200 baud 577-0335
Director's Office	577-4724	Student Center Bldg Satellite			Birmingham 258-6811
		577-5480			Southfield 827-7600
Distribution Window	577-4755	System Status	577-4799		Southgate 283-8822
Documentation Library	577-4802	Tape Library	577-4760		Sterling Heights 939-3370
		Telenet Address	313202 or 31362		TP 577-0670



Computing Services Center

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