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# User Services External Report

Lehigh University

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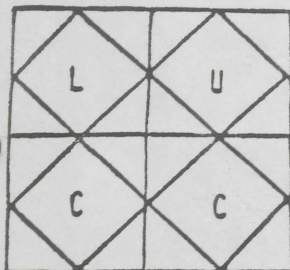
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# USER SERVICES EXTERNAL REPORT

LEHIGH UNIVERSITY COMPUTING CENTER  
 CDC CYBER 170 MODEL 720 (CM 128KW, ECS 1/8MW, NOS/BE)  
 DECSYSTEM-2060 (512KW MEMORY, TOPS-20 V4)  
 PDP 11/34 (112KW MEMORY, RSTS/E V7.0)  
 IBM 4331 (DOS/VSE, RELEASE 3)

Vol. X, No. 2  
 September 1, 1982

## COMPUTING CENTER DIRECTORY

### Information About Policies and Plans

Office of the Director  
 Director 861-3830  
 Dr. J. Gary Lutz  
 Associate Director 861-3990  
 William R. Harris

### Information About Bills Received

Administrative Assistant 861-3825  
 Joseph P. Holzer  
 Annette L. Ruhe

### User Consultants

Timothy J. Foley 861-3994  
 Alvin E. Hamilton 861-3992  
 Monica A. Newman 861-3995  
 Kevin R. Weiner 861-3991

### Information About Programs in the Computer Libraries

Data Processing Librarian 861-3993  
 Janice A. Ealer

### Systems Status, Technical Information

On-duty Consultant 861-4141

### General User Information

User Services Secretary 861-3990  
 Judy K. Allio

### Information About Operational Policies

Operations Manager 861-3989  
 Carol D. Rauch

### Information About Tapes and Supplies

Secretary 861-4140  
 Monica M. Morganello

### On-Campus Computer Access

CYBER 720 (110/300 Baud) Ext. 4000  
 (1200 Baud) Ext. 4660  
 DEC 20 (110/300 Baud) Ext. 4020  
 (1200 Baud) Ext. 4661  
 PDP 11/34 (110/300 Baud) Ext. 4011

### Off-Campus Computer Access

CYBER 720 (110/300 Baud) 691-5800  
 (1200 Baud) 691-5806  
 DEC 20 (110/300 Baud) 868-2250  
 (1200 Baud) 691-0506  
 PDP 11/34 (110/300 Baud) 868-9350

## STAFF CHANGES

User Services is pleased to welcome Alvin Hamilton who joined the group July 12th, as a User Consultant. Alvin graduated in May from the University of Pennsylvania, where he majored in Mathematics. Alvin worked as a User Consultant during his junior year at Penn.

## DIRECTOR'S DISCOURSE

by J. Gary Lutz

Welcome back from what I hope was a restful summer. LUCC has undergone a number of changes over the past few months that I am sure many of you have noticed already. Expansion of the Grace Hall, Whitaker Lab and Christmas-Saucon sites has taken place along with a completion of the renovations at Christmas-Saucon. In addition to eight new ports on the DEC 2060, the supported version of SCRIBE and the newly acquired MUSE word processing package have been installed. Users can look forward to a seminar on the use of MUSE early this fall. The number of administrative users expanded this summer and is continuing to expand with the addition of almost 20 terminals to the IEM 4331. Our attempts to provide higher quality plotting services are still on-going and will hopefully come to fruition sometime this fall. Finally, the Networking Subcommittee, which was very active throughout the past academic year, presented a preliminary report to a special July meeting of the Computing Center Advisory Committee. Although our study of networking for Lehigh is still in the investigative stage, the preliminary report has made it clear that there are some very exciting possibilities that lie before us. This study will continue throughout the year, and you will be kept apprised of its progress.

This promises to be an eventful year, not only for LUCC, but for the University as a whole. In keeping with our efforts to provide our users with the services that they need, let me remind you that in addition to the User Services group within the Center, two other groups exist which should also

serve as conduits to LUCC. The Computing Center Advisory Committee, chaired by Professor Gary Borse, deals with policy issues for the Center; the Users' Subcommittee, chaired by Professor Terry Delph, deals with operational issues for the Center. The current memberships of these two groups are detailed elsewhere in this issue. Please do not hesitate to use your representative to either of these committees. Best of luck for a successful semester.

#### NEW MAGNETIC TAPE SECURITY POLICY

A new magnetic tape security policy for the CYBER 720 and DEC 20 goes into effect on October 1, 1982. Protection against unauthorized use of a tape will no longer be provided unless specifically requested prior to October 1. This applies to all DEC 20 tapes, as well as to any CYBER 720 tapes which currently require a special submission card. Users wishing security for a tape in the library should submit LUCC Form 37, the Tape Library Request Form, specifying any CYBER 720 authorization numbers or DEC 20 directory names which may access the tape. (Note: This form supercedes the old Form 37, the Tape/Save Release form.) Security may also be requested for new tapes being entered into the library. Submission cards will not be required after October 1 for tape jobs, except to indicate special instructions. Users having questions about this new policy should contact User Services.

#### NEW 1200 BAUD DIAL-UP SERVICE FOR ON-CAMPUS USERS

LUCC has added two new ports to the CYBER 720 and two to the DEC 20 for 1200 baud dial-up access from within the campus. Users desiring 1200 baud access to the CYBER 720 should dial ext. 4660. Those desiring such access to the DEC 20 should dial ext. 4661.

#### NEW RELEASE OF NOS/BE INSTALLED

A new release of the CYBER 720 operating system, NOS/BE Level 564, was installed on August 7, 1982. With this installation, two new CDC features were implemented:

- %C (which displayed a user's status with the CYBER 720) and %W (which displayed the equipment and port to which a user's terminal was connected) were replaced by the single sequence, %E.
- An automatic terminal disconnect from the system now occurs, after 15 minutes of inactivity during a terminal session. A one minute warning appears at a user's terminal after 14 minutes of inactivity.

COMPASS users should note that the name "FTN" is no longer valid with the F parameter of the COMPASS control statement. Only the names "COMPASS", "FTN4" and "FTN5" are now valid.

#### FROM THE LIBRARIAN

##### CYBER 720 - New Software

##### ZOOM - COMPASS Page Extractor (J90066)

ZOOM is a program for extracting a single page or range of pages from a COMPASS listing. Documentation for this program can be found in the documentation rack in the Packard Lab Reference Area.

##### CYBER 720 - Modified Software

##### IMSL - Mathematics Library

A new release of the IMSL library, Edition 9, has been installed. This new edition includes 60 new routines, 16 replaced routines and 4 deleted routines. The deleted routines are: EQRH1F, USCRDM, USRDM and USRDV. A list of the new, replaced and deleted routines is available on-line and can be obtained by issuing a "SYSBULL,IMSL" command interactively or by including a "SYSBULL,IMSL." control card in a deck setup. This new edition also includes code deletions, replacements and modifications to other routines.

Numerous changes and additions have also been made to the IMSL Library Reference Manual. The revised manual, which now consists of four volumes instead of three, can be found in the Packard Lab Reference Area.

The IMSL routines, which cover the general fields of mathematics and statistics, are designed to be used in the development of scientific and engineering applications programs. The IMSL library now consists of over 500 routines. These routines can be called directly from any FTN4 or FTN5 program.

A list of all the changes effective with this new edition can be found in the Appendix in Volume 4 of the IMSL Library Reference Manual.

##### SENATOR - Text Editor (J90045)

The following changes were recently made to SENATOR:

1. After calling SENATOR, users are put directly into EDIT mode (from which READY mode commands can be issued) with a default current filename of "NONAME".
2. READY mode commands issued from EDIT mode will generally no longer cause the EDIT pointer to move to the beginning of the

file. (One such exception is the READY command "NEW".)

3. The READY mode "PRINT" command, for listing files at the line printer, has been replaced with the command "OUTPUT".

### SIR - Information Retrieval (SC0005)

The SIR program has been updated to version 1.1N. A list of errors fixed is available from the Librarian in Room 115, Packard Lab. The supplement to the SIR User's Manual has also been updated. This supplement documents corrections to the manual, features that have been added since the manual was published, and some programming hints. The supplement is attached to the manual in the Packard Lab Reference Area; a copy can also be obtained from the Librarian.

### DEC 20 - New Software

#### MUSE - Full-Screen Word Processor (Z00044)

MUSE is an editing and formatting program which is designed to handle light word processing requirements. Letters, memoranda and articles without footnotes can be quickly processed with MUSE and its companion printing program, PRMUSE. MUSE and PRMUSE are currently undergoing internal testing and are scheduled for release to the public on August 30, 1982. A seminar on the use of MUSE is being offered by LUCC. Those interested should consult the article entitled "Fall Seminar Series" in this issue for details.

The MUSE User's Guide for DEC Computers is available at the University Bookstore; a copy can also be found in the Packard Lab Reference Area and on two-hour reserve in Mart Library. Terminal templates and Quick Reference Guides are available from User Services, Room 115, Packard Lab.

### DEC 20 - Modified Software

#### SCRIBE - Text Formatter (Z00016)

A new, supported version of SCRIBE has recently been installed on DIRECTORY NEW:. SCRIBE is a powerful text formatting program capable of producing essays, articles, reports, manuals, letters and theses. LUCC is offering a seminar on the use of SCRIBE again this fall. Those interested should refer to the "Fall Seminar Series" article in this issue for details.

Documentation for the new version of SCRIBE consists of the same SCRIBE User Manual and SCRIBE Database Administrator's Guide as have been

available in the University Bookstore. Copies of both of these guides are also available in the Packard Lab Reference Area and Mart Library (on two-hour reserve). The new version of SCRIBE includes a mechanism for hyphenating words and a mechanism for producing multiple-column output. These features, as well as other new commands and environment attributes, are described in Chapter 5 of the SCRIBE Database Administrator's Guide.

Database files for the new version of SCRIBE will reside in directory <SCRIBE>.

The new version of SCRIBE has been found to produce undesirable results when processing files containing EDIT line numbers when the terminal tab key has been used. Thus, until further notice, users should save their manuscript files without line numbers (by exiting EDIT with an "eu" instead of an "e") if they have used the terminal tab key.

To access the new version of SCRIBE, users must first issue the following command in a terminal session:

```
@DEFINE SYS: NEW:,SYS:
```

However, on September 20th, the new version of SCRIBE will become the production version and the old version will be moved to DIRECTORY OLD:. (At this time, LUCC's original version of SCRIBE, which now resides in DIRECTORY OLD:, will be removed from the system.)

### EDUNET APPLICATIONS

Lehigh is a member of EDUNET, the national computing network for higher education and research. Through EDUNET, the computing facilities of member institutions such as Cornell, MIT and Carnegie-Mellon can be accessed. A complete list of the institutions and their computers accessible via EDUNET can be obtained from Janice Ealer in User Services, 115 Packard Lab, ext. 3993. Limited funds are available to faculty for using EDUNET for instructional or university-funded research. Those interested should contact Janice Ealer in User Services. The deadline for submission of requests for funds to use EDUNET is Sept. 17, 1982. The next review of requests will be February, 1983.

### DOCUMENTATION NOTES

The following documents have been revised since the June 24, 1982 version of USER:

- DECSYSTEM-20 User's Guide
- CYBER 720 User's Guide
- CYBER 720 Interactive User's Guide
- CYBER 720 Plotter Manual
- ISIS Users' Guide
- IMPART Manual
- Tech. Bull. No. 1-NOS/BE-LOADER-INTERCOM Differences
- Tech. Bull. No.13-How to Use an IBM Key punch

Impl. Bull. No. 3-Major Differences Between  
DEC 20 & CYBER 720 FORTRAN

LUCC Implementation Bulletins

Available from User Services

With the exception of the technical and implementation bulletins and the IMPART Manual, which are available without charge from User Services, each of the above can be obtained at the University Bookstore.

There follows a complete list of LUCC user guides and vendor manuals, which are available at the University Bookstore, as well as of technical bulletins and implementation bulletins, which are available without charge from User Services, Room 115, Packard Lab. The same list is available on-line on both the CYBER 720 and DEC 20. DEC 20 users must type "HELP DOCMNTS" to obtain the list. CYBER 720 users can either issue a "SYSBULL,DOCMNTS" command interactively or include a "SYSBULL,DOCMNTS." control card in their deck setups.

LUCC User Guides

Available at the University Bookstore

CYBER 720

CYBER 720 User's Guide  
CYBER 720 Interactive User's Guide  
SENATOR Reference Manual  
CYBER 720 Plotter Manual  
Pascal 6000 Release 3  
Pascal Utility Programs  
ISIS Users' Guide  
WIZARD Student Manual

DEC 20

DECSYSTEM-20 User's Guide  
DEC 20 Plotter Manual  
Pascal-20 Compiler for the DECSYSTEM-20

PDP 11/34

PDP 11/34 User's Guide

LUCC Technical Bulletins

Available from User Services

- No. 1 NOS/BE-LOADER-INTERCOM Differences
- No. 4 Users' Mini-Guide for UPDATE
- No. 5 Batch Security Features
- No. 6 Guide for Magnetic Tape Interchange-CYBER 720
- No. 7 SPSS and NOS/BE files
- No. 8 INTERCOM Extended Character Set Input/Output
- No. 9 FTN/RUN/RUNT Differences
- No. 11 Small Permanent File Manager
- No. 12 CYBER 720 Account Executive's Guide
- No. 13 How to Use an IEM Keypunch
- No. 14 Magnetic Tape Policies and Procedures
- No. 15 Dynamic Storage Allocation
- No. 16 Preparing a Master's Thesis on the DEC 20

CYBER 720

No. 2 RUN/RUNT/FTN3 Conversion to FTN4

DEC 20

No. 3 Major Diff. Between DEC 20 & CYBER 720 FORTRAN

Miscellaneous Guides

Available from User Services

Address Label System User's Guide  
IMPART Manual

Vendor User Guides

Available at the University Bookstore

CYBER 720

NOS/BE Version 1 Reference Manual  
INTERCOM Version 5 Reference Manual  
UPDATE Version 1 Reference Manual  
FORTRAN Extended Version 4 Reference Manual  
FORTRAN Version 5 Reference Manual  
Pascal User Manual and Report  
SPSS  
SPSS Update 7-9

DEC 20

TOPS-20 User's Guide  
TOPS-20 Commands Reference Manual  
TOPS-20 User Utilities Guide  
EDIT Reference Manual  
EDIT Reference Card  
TOPS-10/TOPS-20 FORTRAN Language Manual  
TOPS-10/TOPS-20 COBOL-74 Language Manual  
SCRIBE User Manual  
SCRIBE Database Administrator's Guide  
SCRIBE Reference Card  
MUSE User's Guide for DEC Computers  
DEMS-20 User's Guide  
DEMS-20 Utilities Manual  
DEMS-20 Data Manipulation Language Reference Manual  
DEMS-20 Data Description Language Reference Manual  
DEMS-20 DML Programmer's Reference Card  
DEMS-20 DDL Programmer's Reference Card  
SCSS

PDP 11/34

RSTS/E System User's Guide  
RSTS/E Pocket Guide  
BASIC-PLUS Language Manual

FACULTY/STAFF SEMINARS

The Computing Center is planning to offer three seminars exclusively for faculty and staff. These seminars will enable interested faculty and staff members to become familiar with interactive computing on the CDC CYBER 720 and the DEC 20.

Each of the three seminars will be restricted to the first 16 faculty or staff members to register for it. Those interested should register with User Services, Room 115, Packard Lab, ext. 3990.

The CYBER 720 seminars will be held in the Grace Hall interactive computing site, and the DEC 20 sessions will be held in Room 208, Drown Hall.

All sessions will take place from 4:10 P.M. to 6:00 P.M. on the dates indicated below. The format of each session will be a lecture followed by a lab. Attendance on all dates listed for a given seminar is necessary as the sessions constitute a series.

The list of faculty/staff seminars follows:

<u>TITLE</u>	<u>DATE</u>
Introduction to the DEC 20 and EDIT	Sept. 1,2
Introduction to INTERCOM and SENATOR	Sept. 7,8
Using SENATOR	Sept. 9,10

Descriptions of these seminars follow.

Introduction to the DEC 20 and EDIT

During these sessions the following topics will be covered: DEC 20 file usage, basic DEC 20 commands, the EDIT program and methods of on-line communication. Participants will learn how to create, edit and run jobs on the DEC 20. No prior computing experience is necessary.

Introduction to INTERCOM and SENATOR

This seminar will cover the commands necessary to run jobs interactively on the CYBER 720. Topics covered will be: CYBER 720 file structure, basic INTERCOM commands, methods of on-line communication, and SENATOR - the CYBER 720 text editor. No prior computing experience is necessary.

Using SENATOR

This seminar will cover the commands necessary to create, edit and run programs from within SENATOR. A brief introduction to the use of small permanent files and the creation of sign-on

procedures will also be included. Prerequisite: Introduction to INTERCOM and SENATOR, or previous experience with both.

FALL SEMINAR SERIES

The following is the list of fall semester seminars open to students, faculty, staff, and external users. With the exception of the seminar related to MUSE, all seminars will be held from 4:10 P.M. to 5:00 P.M. in Room 208, Packard Lab, and no advance registration is necessary. Note that more than one date is specified for most seminars because more than one session is required to cover those topics adequately. Thus, attendance at all sessions for a given topic is advised.

The MUSE seminar will be a "hands-on" session, scheduled to occur Monday, September 20th from 4:10 P.M. to 5:30 P.M., at the Christmas-Saucon site. Those interested in attending this session must register in advance with User Services, ext. 3990. Registration is limited to the first 14 persons to sign up. The MUSE seminar will be repeated contingent upon the demand demonstrated at the time of this first registration. These MUSE seminars would be announced via system-wide MAIL on the DEC 20, and added to the on-line seminar schedule accessed by issuing a "HELP SEMINAR" command on the DEC 20 or a "SYSBULL,SEMINAR" command on the CYBER 720.

<u>TITLE</u>	<u>DATE</u>
Introduction to LUCC (Lehigh University Computing Center)	Aug. 31
Elementary NOS/BE Control Language	Sept. 3
Introduction to the DEC 20 and EDIT	Sept. 13,15,17
Interactive Computing on the CYBER 720	Sept. 14,16
Text Formatting and Processing Using MUSE	Sept. 20*
Using SENATOR, Interactive Text Editor on the CYBER 720	Sept. 21,23
Text Formatting Using SCRIBE	Sept. 22,24
Introduction to UPDATE	Sept. 29, Oct. 1
Introduction to SPSS	Oct. 4,8
Introduction to Magnetic Tape Processing	Oct. 11,13,15
Introduction to SCSS	Oct. 18,20

\* Advance registration; Christmas-Saucon site. See details above.

19. Turnaround time for jobs submitted at Packard site	2.99	G. Rayna	and Physical Sciences College of Arts and Sciences
20. Quality of consulting received over HOT LINE (ext. 4141)	2.98	W.G. Shade	College of Arts and Sciences
21. Ease of locating software through library index	2.91	L.J. Tuscher	School of Education To be appointed College of Engineering and Physical Sciences
22. Adequacy of workspace at interactive sites	2.86		
23. Number of keypunches	2.85		
24. Response of LUCC to your suggestions	2.83		
25. CYBER 720 response time	2.68		
26. Availability of CYBER 720 terminals	2.51		
27. Condition of keypunches	2.42		
28. Adequacy of documentation at sites	2.42		
29. Availability of DEC 20 terminals	2.41		
30. Number of printing terminals	2.23		

OPERATIONAL STATISTICS

CYBER 720

Time System Available During Scheduled Hours (Percentage)	<u>6/82</u>	<u>7/82</u>
Batch	94.3	90.4
INTERCOM	94.2	90.4
Mean Time Between Interruptions (Hours)		
Batch	39.5	40.0
INTERCOM	28.7	40.0

DECSYSTEM-20

Time System Available During Scheduled Hours (Percentage)	<u>6/82</u>	<u>7/82</u>
Mean Time Between Interruptions (Hours)	99.6	99.9
	48.9	113.7

PDP 11/34

Time System Available During Scheduled Hours (Percentage)	<u>6/82</u>	<u>7/82</u>
Mean Time Between Interruptions (Hours)	99.7	100.0
	174.6	347.3

COMPUTING CENTER ADVISORY COMMITTEE MEMBERSHIP

The CCAC deals with policy issues of LUCC. Committee membership for 1982-83 consists of the following:

G.J. Borse, Chairman	
D.E. Abbott	J.G. Lutz
J. Clark	J.A. Mierzwa
T.J. Delph	J.M. Parks
J.L. Goldstein	B.G. Richards
S.L. Gulden	P.W. Sire
J.F. Libsch (until 9/1/82)	S.K. Tarby
F. Luh	

USERS' SUBCOMMITTEE MEMBERSHIP

The Users' Subcommittee, appointed by the CCAC, deals with operational issues of LUCC. Subcommittee membership for 1982-83 consists of the following:

T.J. Delph, Chairman	
G.A. Fullman	Administrative Systems
J.A. Hall	College of Business and Economics
J.E. Hansz	College of Business and Economics
W.R. Harris	Computing Center
W.S. Hoffman	Administrative Systems
C.N. Kostem	College of Engineering

USAGE STATISTICS

CYBER 720

	<u>6/82</u>	<u>7/82</u>
BATCH -		
Jobs Processed	17,894	14,778
Central Site	10,381	8,655
INTERCOM -		
Terminal Sessions	7,371	6,538
Terminal Connect Hours	3,832	3,315
CPU Hours - Batch	258.0	196.0
- INTERCOM	29.3	28.2

DECSYSTEM-20

	<u>6/82</u>	<u>7/82</u>
Terminal Sessions	9,907	6,816
Terminal Connect Hours	3,771	3,357
CPU Hours - All Jobs	83.0	81.5

PDP 11/34

	<u>6/82</u>	<u>7/82</u>
Terminal Connect Hours	311	94
CPU Hours	14.6	6.1

USER SERVICES EXTERNAL REPORT

MAILING LIST

- \_\_\_ ADD my name to the mailing list  
\_\_\_ DELETE my name (include mailing label or complete address)  
\_\_\_ CHANGE my address (list both old and new addresses and include Zip Code)

CAMPUS

OFF-CAMPUS

NAME: \_\_\_\_\_ NAME: \_\_\_\_\_  
DEPT.: \_\_\_\_\_ ADDRESS: \_\_\_\_\_  
BLDG.: \_\_\_\_\_ ROOM: \_\_\_\_\_  
\_\_\_\_\_ ZIP CODE: \_\_\_\_\_

RETURN TO: Lehigh University  
Computing Center  
RM. 115 Packard Lab, Bldg. 19  
Bethlehem, PA 18015