

9-19-1975

User Services External Report

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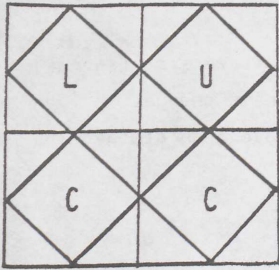


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Recommended Citation

Lehigh University, "User Services External Report" (1975). *Computing Center Newsletter*. 7.
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USER SERVICES EXTERNAL REPORT

LEHIGH UNIVERSITY COMPUTING CENTER

CDC 6400 (CM65K, ECS125K, SCOPE 3.4.3), VARIAN 620/f

September 19, 1975

Instructional Computing

Instructors planning to use computing facilities in conjunction with their courses should contact the Educational Coordinator in User Services if they are in need of assistance. This position was created to assist the faculty in the development and implementation of instructional use of the computer.

It is hoped that instructors will benefit from the services offered through the Educational Coordinator, and that they will feel free to seek assistance in their computer related course preparations. New faculty and those who have not used the computer recently may wish to check and see that the programs and packages that they plan to use, and have used in the past, are still available and are called in the same manner.

Installation of the new operating system introduced several changes in job handling (e.g., batch control limits). It is suggested that instructional users check past issues of USER or with the Educational Coordinator (ext. 603) in order to avoid unnecessary problems for an entire class.

Computing Seminars

The computing seminar schedule for the fall semester has been announced by the Center. Copies of the schedule may be obtained from User Services, Room 119 Packard Lab.

Of particular interest to many users will be the "Introduction to Statistical Packages" seminar which begins on September 25. The purpose of this seminar is to introduce users to statistical packages currently available at Lehigh, and to instruct users in the use of the recently installed SPSS (Statistical Programs for the Social Sciences) package.

All are welcomed to attend these seminars. Preregistration is not required, and there are no fees associated with this seminar series.

From the Librarian

New Programs

- ENERGY - World Energy Model

This program provides the user with a world energy simulation. (H50011)

- PERM - File Status Program

PERM will determine if a file exists. If it exists, it will return information on the device, permissions that are granted, PRU size and RB size. (J90018)

- GENDOC - Document and Thesis Formatting

GENDOC allows text to be entered in free format on cards. Simple directives permit generating a neatly formatted output. Options include automatic page numbering, footnote processing, page titles, table of contents, and right and left justified margins. (Z00006)

- ELLIPS - Analysis of Ellipsometer Measurements

ELLIPS is a general purpose program which performs the calculations required to analyze ellipsometer measurements. (T40008)

Modified Programs

● BMD's - Biomedical Computer Programs

Effective August 14, the Center installed the 1973 version of the BMD package. This version renames the BMD X-series to conform with the standard BMD naming conventions. A list of name changes is available from User Services, Room 119 Packard Lab. The following BMD programs have been dropped in the 1973 version:

<u>1967-series BMD program</u>	<u>1973-series comparable program</u>
BMD01T	BMD03T or BMD04T
BMD03M	BMD08M
BMD06M	BMD09M
BMD04S	none
BMD05S	none

For the most part, the 1973 BMD's are upward compatible, and in many cases the field length required for execution is smaller.

● ASSETS - Report INTERCOM Limits

● UOASTAT - Report Authorization Status

The ASSETS and UOASTAT utilities have been modified to report the user's limits for Prime, Non-prime, and Off-hours periods. ASSETS also flags the limits that are in effect at the time that it is run. (S00003)

● COSH/SINH - Evaluates Hyperbolic Cosine/Sine

The SINH and COSH functions have been modified to provide users with the error traceback information that is useful in debugging arithmetic errors. (B20002)

● SYSBULL - System Bulletins

Several new bulletins have been added to the SYSBULL file. INTERCOM users may now obtain system bulletins on ISIS, SPSS, and SENATOR detailing known problems, changes, etc. with the utilities. In addition, the HOURS bulletin will list the operating schedule. To access a system bulletin enter the command SYSBULL,name or SYSBULL,ALL to obtain all current system bulletins.

Policies and Procedures

Public Password

A public password has been established which can be used by Lehigh faculty and students without special arrangements. The purpose of this password is to provide time-sharing access to the computer for students and faculty not associated with courses having computer password authorizations. This password may be used at any on-campus terminal, for any valid instructional purpose. The public password is PASSWORD, and it may be used with any valid user name (10 characters or less, beginning with an alphabetic character, and not ending with a period). The resources available to PASSWORD users are:

	<u>Prime</u>	<u>Non-prime</u>	<u>Off-hours</u>
System Seconds	10	25	100
Central Memory	40000 ₈	50000 ₈	60000 ₈

Instructors requiring INTERCOM resources in excess of the PASSWORD limits should still request a specific password for their courses. Procedures for acquiring an INTERCOM password have not been changed.

Remote Batch Site

Since the installation of a CDC 734 Remote Batch terminal in Taylor Hall last January, the site has accounted for more and more of the total batch processing. For the period March 31 through May 9, twenty-seven percent of all batch jobs were submitted from the Taylor Hall site. The statistics on batch submissions clearly show that the beginning courses use the Taylor site more heavily than the central site. Fifty-seven percent of all Accounting 111 jobs were run at Taylor, and between fifty-two and sixty-one percent of the various Engineering 1 sections' jobs were submitted at Taylor. The existence of the Taylor site was largely responsible for the reduced

end-of-semester crunch at the central site. At peak periods, in mid-May, Taylor was accounting for over one-third of all jobs run.

Taylor is strictly a student run site. Consultants are on duty at various times throughout the day to familiarize new users with terminal operations and to assist users with problems that may arise. Instructors may contact User Services for details on group (class size) introductions to the Taylor site.

SCOPE 3.4.3 Installation

SCOPE 3.4.3 and INTERCOM 4.3 were installed as the production operating and time-sharing systems on August 28. Although the visible differences between SCOPE 3.4.1 and 3.4.3 are minor, users are urged to refer to the August 1 issue of USER for a full explanation of the changes.

Auto-baud Feature

Under INTERCOM 4.3 the 110/300 baud dial-up phone ports operate with an automatic baud rate detection feature. To activate auto-baud detection, the user must dial one of the computer numbers (on-campus: 772 or 862, off-campus: 691-5800), place the receiver in the coupler or modem, wait for the carrier light to come on, and then hit carriage return. Once communication has been established at the proper baud rate, the standard banner message will be displayed, and the user may then proceed with the normal LOGIN procedures.

LUCC Introductory Users' Guide

In August the Center published its new Introductory Users' Guide, which replaces the 1974 Introductory Job Submission Guide. All new users are urged to obtain a copy of this guide, and to familiarize themselves with the Center's policies, procedures, and operations. This guide is available at the University Bookstore.

New Paper Saving Measure

In an effort to reduce the amount of printer paper that a batch job consumes, the Center will soon modify the COBOL, COMPASS, FTN, and RUN compilers to print, by default, at 8 lines per inch.

Users wishing to experiment with the 8 lines per inch option may do so by placing the following two control cards before the compiler call:

```
ATTACH(COMPLIB)
LIBRARY(COMPLIB)
```

The 8 lines per inch default can be overridden to permit printing at 6 lines per inch. The default is overridden by placing a 6 on the compiler control card. For example:

```
COBOL(I=IN,L=OUT,6)
COMPASS(I=IN,L=OUT,6)
FTN(I=IN,L=OUT,6)
RUN(S6)    or    RUN(6S)
```

Users are encouraged to experiment with the 8 lines per inch compilers before they are installed as production compilers. Please report any problems to User Services, Room 119 Packard Lab.

Authorization Low Balance Warning

The system accounting routines have been modified to provide the user with a low balance warning notice when an authorization's account balance falls below a certain dollar amount. When opening a computer authorization, the requestor may specify the dollar amount that will trigger the low balance warning notice. The default value is ten-percent (10%) of the original authorization balance.

All accounts have this feature available to them. Accounts opened since July 1, 1975 reflect the balance requested by the account executive. Accounts opened prior to July 1, 1975 have been modified to take advantage of this feature; these accounts have been set to the ten-percent (10%) of original balance.

Off-hours Processing Rate

The new off-hours processing rate was installed on September 18. The new rate involves a reduction in the core factor which is multiplied by a weighted average of CP, PP, and CH times in the calculation of system seconds. Typical values are as follows:

<u>Central Memory Utilized</u>	<u>Core Factor (Prime, Non-prime)</u>	<u>Core Factor (Off-hours)</u>	<u>Percent Reduction</u>
30000 ₈	.38	.375	1
60000 ₈	.52	.45	13
100000 ₈	.68	.50	26
120000 ₈	.95	.55	42

Batch jobs may be submitted specifying the STOFF parameter on the job card to take advantage of this reduced off-hours rate.

INPUT/OUTPUT

This is your section of USER. Please submit suggestions and/or comments through User Services, at any time.

- Q. How is it possible for a FORTRAN program to read past an end-of-file when an EOF check has previously been performed?
- A. When an executing program reads an end-of-file, an EOF flag is set. Any attempt to read further on that file will result in an ERROR 65 message. The IF(EOF,n) for RUN and RUNT, and the IF(EOF(n)) for FTN, allow the user a means of checking the EOF flag, and branching to one of two statement numbers. While reading an EOF sets the end-of-file flag, the execution of an IF(EOF,n) or IF(EOF(n)) resets the flag to allow for subsequent reading on that file. This is done to allow the user to read past single EOF's on a multi-file file, and to check for end-of-information (double EOF's) on that file. While this approach is rarely used in basic FORTRAN programming, it does have implications for all FORTRAN programmers. If you read the EOF on a file, perform a EOF check, and then inadvertently return to the READ statement, your program will 'read' ad infinitum until SS time limit is hit.