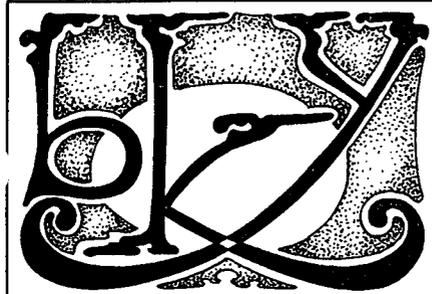


## **DISCLAIMER**

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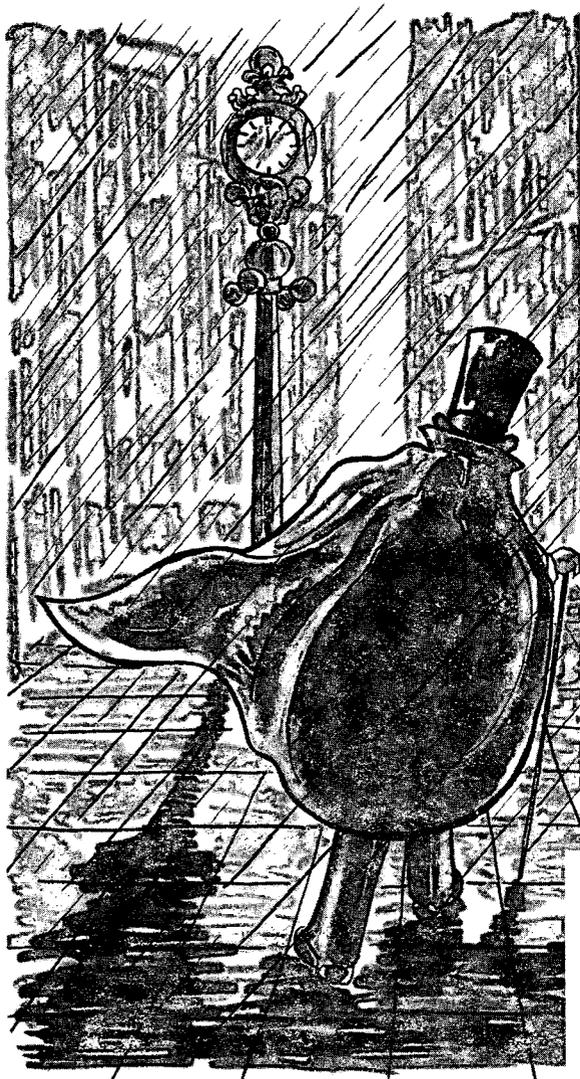


LBL COMPUTER CENTER

# NEWSLETTER

JANUARY 1980

PUB 328



**For Reference**

*Ref. Lib*

Not to be taken from this room

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Address all communications for the Newsletter to Maggie Morley, 50B/1245A, (415) 486-5529.

Illustrations are by George Kapus.

Closing date for the February Newsletter is Monday, January 14, 1980. And no later . . .

RECEIVED  
FEB 1 1980

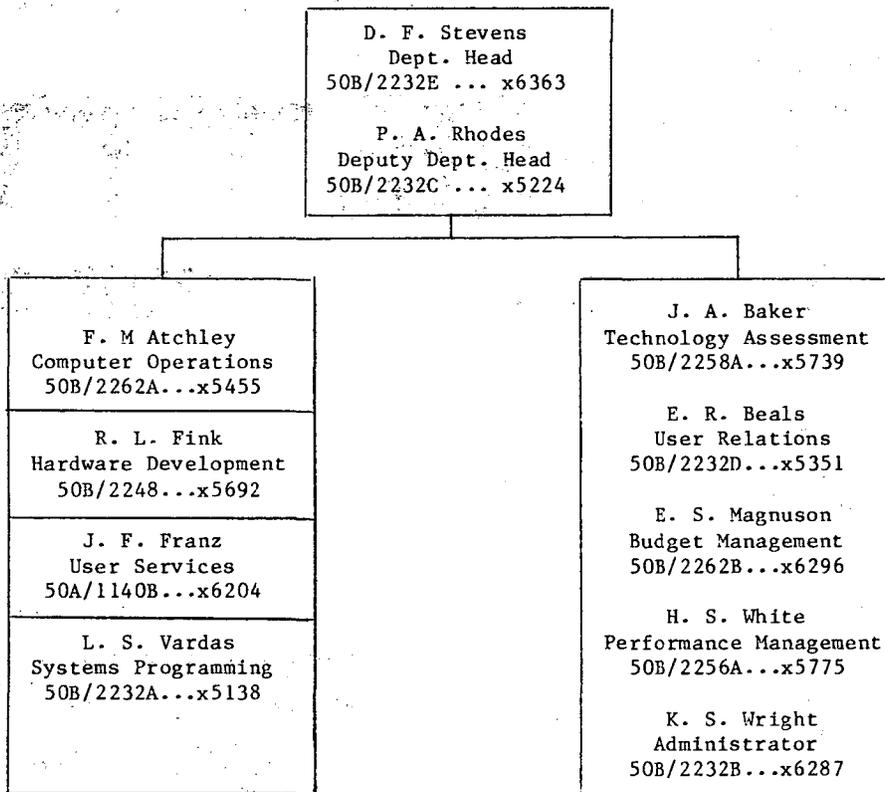
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PUB 328

VOLUME 17 NUMBER 1

LBL Computer Center

NAMES & NUMBERS TO KNOW  
Organizational Structure



FACILITIES AND SERVICES

	BLDG.	ROOM	PHONE
CONSULTANTS.....	50B	1245	5981
ESTABLISHING AN ACCOUNT, Eric Beals.....	50B	2232D	5351
ESTABLISHING AN ACCOUNT, Gerry Moore, Martha Banks.....	930	413	5214/4126
GUEST CARDS, LOCKER SPACE, PARKING PERMITS, Leslie Schroeder.....	50B	2232	5654
ESTABLISHING A REMOTE TERMINAL (RJE or Interactive), Sig Rogers.....	50A	341	6713
TERMINAL/PORTS - REPAIR/TECH SUPPORT, Sandy Merola.....	50A	6102	5354
CHANGING AN ACCOUNT NUMBER, PASSWORDS, Fran Permar.....	50B	2258	6310
OBTAINING DATA CELL SPACE, Pat Gillenwater.....	50B	2276	5234
TAPE LLBRARY, Jewel Walczak.....	50B	2249	6219
COMPUTER CENTER LIBRARY, Maggie Morley.....	50B	1245A	5529
EXPEDITER SERVICE, Irene Partyka.....	50B	2249B	6205
COPE OPERATOR.....			5311
COMPUTER OPERATIONS.....			6211
ASST. MGR., OPERATIONS, Mike Long.....	50B	2262B	5627

COMPUTER ADVISORY COMMITTEE MEMBERS

Stanley Hagstrom, (NRCC).....	50	228	6722
Charles Horne, (Particle Data Group).....	50	308	4725
Ron Huesman, (BIOMEDICAL).....	1	212	5435
Werner Koellner, (Physics).....	50B	5205	4398
Christoph Leeman, (Accelerator Division).....	64	224C	5831
William A. Lester, Jr. (NRCC) (Ex Officio).....	50	208	6722
Creve Maples, Jr., (Nuclear Science).....	71	292	6323
David Pellett, Department of Physics, U.C. Davis, Ca. 94616.....			8/453-1783 (FTS)
Carl Quong (CSAM).....	50B	3238	6330
Henry Ruderman, (Energy & Environment).....	90	3120	6286
Leonard Silvester, (Earth Sciences Division).....	90	1070	4706
Arlene Spurlock (Employee & Information Sevices).....	930	700	5403
George Towns, (NRCC).....	50	208	6722
Allan Zalkin (MMRD).....	70A	4405E	5762

## LBL NIGHT TAXI SERVICE

All of you Computer Center users who like to work evenings but don't like to bring your cars to work can take advantage of the recently reinstated night taxi service.

Every weekday evening, from 7:30 to midnight, the LBL night taxi will take you from the Laboratory to downtown and the campus area. You can also ride from downtown/campus area up to your LBL office. To obtain a ride, simply call x4882. The taxi can usually pick you up in less than 15 minutes. If the driver is out, you can reach him on his mobile phone. Call the Ma Bell operator (dial '0' on an outside line) and ask for the mobile operator. The taxi's mobile phone number is (415) 891-1498, channel ZY.

The night taxi can also carry bicycles.

. . . The Staff Transportation Committee

## "SOFTWARE APPLICATIONS"

## NEW DEPARTMENT ESTABLISHED

A software applications department has been established within the Engineering Technical Services Division effective January 1, 1980. The Applications Programming Group, which has been part of CSAM within the Physics, Computer Sciences and Mathematics Division, will make up that department. Until such time as a Department Head is selected, R. J. Harvey will assume the position of Acting Department Head.

This new department, together with the Computer Center, will form a Computing Section under the direction of Robert J. Harvey.

## &gt;&gt; PRODUCT SET DEVELOPMENT &lt;&lt;

## CYBER LOADER ON 7600

We expect to install the CDC Cyber Loader on the 7600 system going up on January 8. This is in preparation for the installation of FTN5 on the system and does not affect users of LINK or LINKX. (See Sept. 79 Newsletter, Pg. 11.) A Cyber Loader Reference Guide is in preparation and will be issued soon as a BKY Programming Systems Bulletin (#4).

Segmentation (SEGLINK) users will gain some advantages by using Cyber Loader (SEGLOAD) and are encouraged to experiment with the new loader. A brief summary of Cyber Loader and SEGLOAD control card options will appear in BKYNEWS.

. . . Richard Friedman, x5279

## NEW FTN4LIB ON 7600 AND 6000's

FTN4LIB will be upgraded to the same level on 7600 and 6000 systems on or around January 8. Changes include:

- o Fixes an obscure bug in random I/O.
- o Function SECOND() (returns elapsed time in seconds, floating-point) has been made more accurate on the 7600. It now uses the elapsed time in cycles (1 cycle = 27.5 nanoseconds) to compute elapsed time in seconds. Previously on the 7600 (and still on 6000's) SECOND() was (is) accurate to the millisecond.
- o A new INTEGER function, ICYCLES() returns the elapsed time in machine cycles. As with SECOND, it may be used as a function with a dummy argument, or may be called as a subroutine, returning the elapsed cycles as the integer argument:

NC=ICYCLES (NC)    -or-    CALL ICYCLES (NC)

- o A new LOGICAL function IFB() returns .TRUE. if the program is executing on the 6600B machine.

. . . Richard Friedman, x5279

. . . Bryan Higgins, x6391

WORLD

-----

FTN5 STATUS

Work began in December to install FTN5, CDC's FORTRAN-77 compiler, on the 7600. We hope to be able to announce availability of the compiler and FTN5LIB, its library, by the end of this summer.

As announced in the December 79 Newsletter (Pg. 6) the FTN4 to FTN5 (FORTRAN-77) conversion program F45 is now available (FETCHPS,F45,F45,F45.) as well as a Reference Guide to F45 (Programming Systems Bulletin #2).

. . . Richard Friedman, x5279

-----

AUTOMATIC PROGRAM FLOW TIMING WITH FTN4

An automatic method for obtaining a program timing profile with FTN4 is currently being developed. The charming feature of this method is that no changes are required to the source program. For details, see BKYNEWS. For the adventurous, compile your program with:

FETCHPS,FTN4TRA,FTN4TRA/RR,  
CALL,FTN4TRA,I=source,L=listing,OPT=n,B=binary.

There will be an increase in the size of the compiled program and in the execution time.

. . . Richard Friedman, x5279

---

DOE MULTI-LEVEL FORTRAN PRESENTATION

A design proposal for a set of language extensions to ANSI FORTRAN (FORTRAN 77) has recently been completed. These extensions would include control structures, data structures, a macro capability, array processing, and dynamic memory allocation. The design proposal was written by the The DOE Advanced Computing Committee's Language Working Group, comprised of members from many DOE computing sites. It is hoped that the language extensions will meet the common scientific computing needs of DOE laboratories.

The proposal will be presented on Thursday, January 17, from 10:00 to 11:30 a.m. in the Bldg. 50 Auditorium, by Loren Meissner of LBL. During the first part of the presentation, he will give a brief background of the language design effort and discuss its current status and plans for user review. The second part of the presentation will be a tutorial covering the major components of the language, with emphasis on those components felt to be most useful to the DOE user community. For those interested, a more detailed discussion will take place in the afternoon.

All interested persons are invited to attend. A document describing the proposal is available from Loren Meissner, Bldg. 50B, Rm. 3239A, x6361. For further information contact him or ...

. . . Bryan Higgins, x6391

---

INTERNAL DOCUMENTATION ON MICROFICHE

Sets of microfiche containing the entire Writeups and Handbook libraries, as well as the IDDS writeup, are currently available from Ann Garcia (x4770) at the Computer Center Library. They are printed in alphabetical order, according to the writeup name. Cost (\$1. for 48x, \$2. for 24x [larger print]) is charged to your Computer Center account. You may also arrange to have such sets replaced automatically every few months (i.e., when enough significant changes are generated).

Users who are taking advantage of this regular update service should notify Ann of any account number change. Otherwise, they will be dropped from the list at the time of the change.

. . . Maggie Morley, x5529

---

## IMPENDING GSS CHANGES

Several major changes are scheduled for January, 1980. These changes should not adversely affect the user, but forewarned is forearmed. Any unusual GSS behavior should be reported to the Consultants (x5981) immediately.

A 'file partitioning' scheme is being adopted for all GSS programs. It permits the use of a special (and very fast) hardware file skip operation available with the STC tape drives. The various GSS programs will use this hardware file skip mechanism when positioning the tape, which could result in a time savings of up to 50 per cent during the positioning process.

The only differences the user should see (aside from a decrease, perhaps, in turnaround for GSS processes) are

- (1) a survey of a GSS tape will show an occasional file mark between datasets, and
- (2) an occasional file partitioning message may be generated by the GSS program. LSTAPE and FIXTAPE will indicate how many file partitions are on the tape.

No user changes whatsoever are necessary. GSS automatically turns non-file-partitioned tapes into file-partitioned tapes.

Along with these changes, various other modifications will be made to the GSS programs.

STOTAPE 7600 Z-mode staging will be turned back on.

GETTAPE 7600 Z-mode staging will be turned back on.

ROLTAPE RESTORE=NOEXIST will become the default. RESTORE=ALL may be specified to do things the old way. A new option DATE=, will be available, which will tell ROLTAPE to restore the dataset only if it was put on the GSS tape on or after the date specified.

LSTAPE it will be possible to specify the pathname level at which LSTAPE will list. For example, if "LSTAPE,A/B/C,99999." were specified, LSTAPE would list all datasets that begin with the directory names "A/B/C". Other datasets would not be listed. If specified, the pathname level must be the first argument.

REWTAPE will check the ownername in the NEW= table of contents and abort if the ownername does not match that specified by the user.

BKYNEWS and the Billboard will indicate exactly when these changes will occur. The GSS writeup will also be updated at that time.

. . . David Gok, x5124

## PSSLIST IMPROVEMENT

As of the 6000 operating system BKY72F, scheduled tentatively for December 18, if sense switch 6 is on, the PSSLIST control card will process all the libraries specified even if one or more of them reside on PSS units that are down. (See HANDBOOK subset CONTROL for more information about sense switches.) Instead of aborting and skipping to a CXIT card, PSSLIST will print the dayfile message -

PSS UNIT IS CURRENTLY DOWN FOR LIBRARY <libname>

for each library that resides on an unavailable PSS unit, and will continue to process the remainder of the libraries specified. The output listing will specify the library name plus some additional information and will reiterate the above message. For example -

```
<Jobcard>
*6
ONSW,6.
PSSLIST,,OUT,MYLIB1,MYLIB2,MYLIB3.
DISPOSE,OUT=PR.
<End-of-job card>
```

WORD YYY

The libraries MYLIB1, MYLIB2, and MYLIB3 will be processed even if one or more of them resides on a down PSS unit. In either case, PSSLIST will terminate normally and both the dayfile and the file OUT will contain the appropriate error message.

If sense switch 6 is not on, PSSLIST will pause for operator action and the job will either be reset or dropped.

. . . The Consultants, x5981

## GRAFFITI

The cryptic notations sprinkled throughout this Newsletter were first seen as graffiti on the walls of the Computer Center. One alert noted, before the Janitor washed them off, that they were familiar statements in code. For instance,

WHAT  
MUST

stands for "what goes up, must come down." See how many of them you can decipher.

## Answers to CROSS WORDS V

1	L	E	2	T	H	3	A	R	4	G	I	5	C
	G		U		R		A		O				
6	G	R	O	O	M	S	M	A	N				
	O						M						C
7	R	E	8	A	D	Y	M	A	D	E			
	R		I										I
9	H	E	R	E	10	A	B	11	O	U	T		
	E		T		L		W						E
12	A	B	S	T	A	I	N	E	D				

## COMPUTER CENTER SEMINARS

Seminars, offering an overview of the BKY Computer Center operation, will be held on Mondays (commencing at 2 PM) and Tuesdays (commencing at 1 PM) during the month of January. (Other aspects of the operation can be discussed as needed.) We hope to establish a series of regular semi-weekly sessions featuring in-depth discussions of any facet of the system the new user (and/or old hand) wishes covered. If you wish to attend one of these sessions, you MUST make an appointment beforehand. Contact either Maggie Morley, x5529. or . . .

. . . Dave Fry, x6291

## ACM MONTHLY DINNER MEETING

The Golden Gate Chapter of the Association for Computing Machinery will hold its monthly dinner meeting on Thursday, January 17, 1980 at The Seven Hills, 77 Battery St., SF. It is open to all interested computer professionals. Speaker is Jim Donaldson, Control Data Corporation. His Topic: THE PROFESSION: WHO WE ARE AND WHY WE ARE. The schedule is as follows --

5 PM, Council Meeting -- 6 PM, No Host Cocktails -- 7 PM, Dinner -- 8 PM, Speaker (no cost)

Dinner price for members is \$8.00. For non-members, \$9.00. For reservations, call Bill Dunn (415) 985-1020 no later than noon Tuesday, December 18. For more information, call Mannie Clinnick, x6411.

## NOTE FROM THE EXPEDITERS

- (1) Users who are getting itemized reports of computer charges from the Expediters should give written notification of any ACCOUNT NUMBER and/or site-code change.
- (2) Effective December 1, NAMES Accounting Tapes from the Expediters will be GSS tapes in the ATL. Users must change the tape request card to --

GETTAPE,filename=week,tape#.

or

GETTAPE,filename=month,tape#.

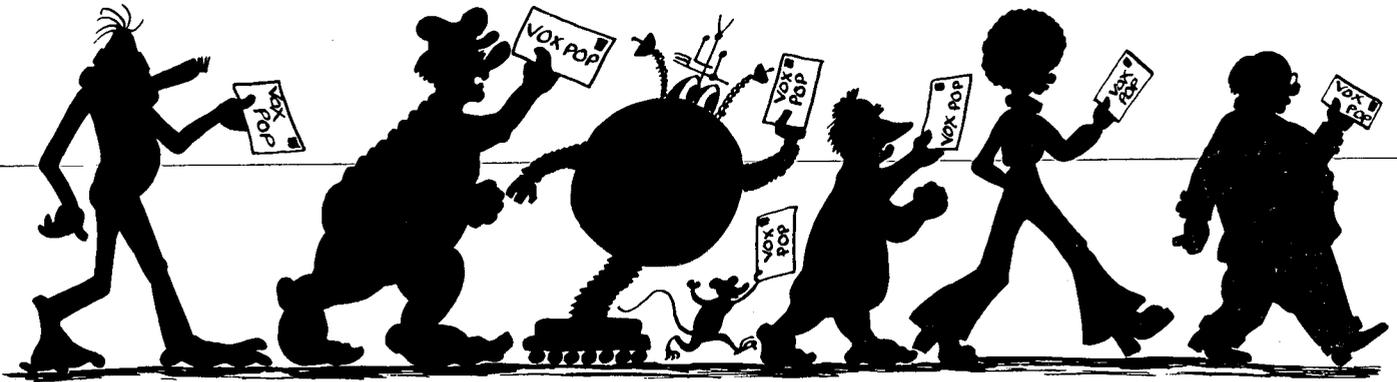
- (3) The form required to enter tapes into the tape library has been modified and has replaced the old form. All Expediter users must use the new form, which is available from the data cell as follows --

LIBCOPY,EXPLIB,OUT/RR,USER.

DISPOSE,OUT=PR,DT=I,PA=1F. ... (Use 'PA=1F' at BKY only)

. . . Irene Partyka, x6205

. . . Dortha Hines, x6205



VOX POP

Please reroute COM output intended for the COM Room. Presently, it goes from the COM Room to the Floor 4 fiche Bin, where COM personnel never retrieve it. Months'-old fish left around begins to smell.

This is unclear. Please call me at x5627 and explain what the problem is. (Mike Long)

\*\*\*\*\*

Please teach the 7600 PSS routine to pass on Sense Switch 6 information to the jobs they stage, and then do a CXIT abort if the stage job does.

This is a good idea. Will look into the implementation. (Bob Rendler)

\*\*\*\*\*

To Jerry Knight: It would be nice to be able to put documentation on the first page of a printout, without doing a DISPOSE and generating an extra dayfile (see VOX POP, Oct '79, Pg. 8, item #1) and to specify large or small type (see VOX POP, Nov '79, Pg. 13, item #4).

To Anonymous Person: I agree, it would be nice. The first problem you mention is one of the side effects of a decision made some years ago to implement 7600 DISPOSE expediently rather than elegantly. The difficulty of the elegant path probably means the situation will remain as it is for the foreseeable future. Specifying large or small type in the title is something I could maybe provide with a few strokes of the coding pencil, but it's not very high on my list of things to do (cf. "Great Clamor," VOX POP, Nov. '79, Pg. 13). (Jerry Knight)

\*\*\*\*\*

What relation, if any, does the increase in the Lab-wide overhead charge have to the construction of the fancy new entrance to the basement of 50A and the fancy displays in the lobby of Bldg. 50 and the 50 Auditorium lobby?

These two projects are part of an extended program (which has been underway for the past six years) to improve working conditions and the general appearance of the Laboratory. They bear no relation to the overhead increase. (Dave Stevens)

\*\*\*\*\*

Please add an option to LSTTAPE to list only those datasets beginning at a particular directory level. Example: Using the structure on page 2 of the GSS writeup,

LSTTAPE,...,PATH=JOEUSER/EXPERMT3/\*,...

would produce

JOEUSER/EXPERMT3/KCL1  
/KCL2  
/PART2/KCL3.

**OOO CIRCUS**

OK. When LSTTAPE v3.7 goes up on the system, you'll be able to specify the directory level. See the GSS article elsewhere in this Newsletter. (David Gok)

\*\*\*\*\*

Please teach PSSLIST to work on the 7600. (You discriminate against us INSTANT Batch users who need to know what's in our libraries.)

Will do. (Bob Rendler)

\*\*\*\*\*

A message to inept and inconsiderate User Printer users is needed. Too often, output is destroyed.

-----

This is a comment regarding the letter in the October VOX POP concerning the killing of print files on the User Printers.

While most users do not intentionally abuse this feature, dire things can happen due to the characteristics of the Printer display. It has been my experience that when I kill a print file, the kill actually occurs immediately but the display still says my job is printing (I guess the display isn't updated very frequently.) A user who sees this may think that the kill didn't work and try again -- killing the next job instead. This scenario is not hypothetical. I have avoided it because the person who told me about killing jobs had done it. He realized what had happened and contacted the person whose job he had killed, but this is not something one would necessarily notice. Also, at one time there was a sign on the display showing the command for killing print files, but with no warnings concerning its use.

It seems to me that documentation on the use of the machines in the I/O room is in a very bad state. [Instructions for] the use of the User Printers and card readers is passed on in an oral tradition, a notoriously noisy information channel (as anyone familiar with folklore will know). I got a good rundown from someone who knew what was going on, but I frequently see people who have little or no idea what they're doing. So here are some suggestions for what should be included in a Guide to the I/O Room (these are all things I myself have had to tell people at one time or another):

- 1) There should be instructions for the card readers. The '1, 2, & 3' above the appropriate buttons is suggestive but not sufficient to enlighten a neophyte.
- 2) It should be made particularly clear that fooling with cards as they come out of the machine [the Reader] is courting disaster. (There is no current documentation on the use of the Ready Button.)
- 3) It should be made clear that if the Run/Stop Switch is on Stop, the Reader won't work. (It occasionally is left on Stop by other users.)
- 4) The procedure for killing print files should be given in detail with appropriate warnings. This is a case of a little knowledge being dangerous (as detailed above). If this feature is to be retained, it should be detailed publicly, in writing, -- not [passed on] by word of mouth.
- 5) It is not obvious to everyone that one can get a printout run out of the User Printer with Carriage Restore, so this should be documented as well.

I presume that the current attitude is to let (1) oral tradition, (2) monkey-see monkey-do, and (3) innate mechanical aptitude handle the situation, but I don't think these are sufficient. As to the first, besides the inherent unreliability of oral tradition, there is the fact that people come up here with no mentor and some of these folks don't ask other users for help. They seem to rely on the second method with varying degrees of success or failure. The third method is only good for those of us blessed with (or cursed with) automatolagnia (sic); those who aren't are faced with intimidating and incomprehensible machinery.

I think the situation could be improved somewhat.

A new writeup and instructions on the use of card readers and printers should have been made available in the first week of December. The command to kill jobs on the User Printer will be reserved for Operations personnel. This decision was made because of the unpredictable delay between this command being issued and its actual execution and screen update. (Mike Long)

\*\*\*\*\*

Dear Keeper of the 6000 TTYKILL: I am now sitting at my dead, killed terminal. I submitted a 7600 job. It was waiting "Job Termination" which I found out by using '>>' 3-4 times. So far as I know, there was not data in the RECC input buffer. I am, so far as I am concerned, interacting with my TTY job. ... BANG! In one short blast, my terminal prints --

\*\*\* TTY SYSTEM KILL IN 5 MINUTES \*\*\*  
\*\*\* TTY SYSTEM KILL IN 1 MINUTE \*\*\*  
SYSTEM KILL  
.  
.

and I am off!!! All in one fell swoop. Really neat, but frustrating!.

Dear Frustrated: I know that I am not speaking to only one of you. I, myself, have experienced this selfsame calamity. The problem occurs when the system is highly saturated.

An attempt has been made, as of 0800, 5 DEC, to remedy this situation. However, I am not promising that it is completely fixed. I am afraid that the complete resolution may not come, but for those who wish to report strange and even more frustrating habits of the interactive system, you may call me (John Wood, x5972).

\*\*\*\*\*

Please add (or change the \*6) a special directive to route the job to that 6000 with the shorter input queue for that priority class, or perhaps to the one with the lighter load. ... I have jobs that will work on either the B or C (but not the 7), and I just want to get the best turnaround.

Sorry, no can do. But I suspect that the way the machines are run now (7600 and RJE support on C, interactive on B) would make the C a good candidate for small rush jobs in the daytime, and the B better for overnight turnaround on large or compute-bound jobs. (Jerry Knight)

\*\*\*\*\*

Please teach DSTLIST (and perhaps PSSLIST) to compute and print the data cell charges associated with each library.

Will do. However, since the charge is based on the maximum allocation used by the group during the month, the charges printed would only reflect the instantaneous usage. (Bob Rendler)

\*\*\*\*\*

I just discovered SORTBR in the December VOX POP. CCARD tells me that it (CCARD) is the only reference to SORTBR.

Are there other such gems buried in CCARD? Could/would you print a list of all otherwise undocumented control cards? (This list might best be an appendix to CCARD, and not just published once in the Newsletter.

Herewith is a list of otherwise undocumented control cards in CCARD --

BKSPRU	DETECT	KILL	STOP	DENSITY
ASSIGN	DIS	UNWIPE	IFEQUAL	SORTBR

Some of these, like ASSIGN, DENSITY, & DIS, do not serve a useful function for the user. Others will be put in the documentation as time permits. CCARD lists all gems in the rough, not just jeweller-quality items. (David Gok)

\*\*\*\*\*

Dear Sirs: I do my computing on the weekends by travelling down from Davis. Two weeks ago, I had to leave before my job printed and could not come down the following weekend. By the time I got down the weekend following, my job output had been discarded. Is there a way to have output retained for over two weeks if necessary?

We discard printout after eight days to allow pickups of jobs run over the weekend. To prevent your output from being discarded during a longer absence, please call the Shift Supervisor (486-6211) and he'll be glad to see to it that your output is saved for you. (Mike Long)

\*\*\*\*\*

After waiting 30 minutes for printout to be placed in slots in the I/O room, I decided to search. I found the following stashed under 4700-xx:

ACCT#	PROGRAMMER
nnnnnn	(mine!)
samenn	His (not mine)
diffnn	His again (not mine)

**OHLENE**

Misfiling of output occurs over and over again. Some suggestions:

- 1) Print the acctno larger, or overstrike for easier reading by filers.
- 2) Make slots less ambiguous, e.g., does 4700-xx mean 4700-4799 to a new filer?
- 3) Have a filer's performance checked regularly.

As a result of this and other similar complaints, we have been spending more time with filing Problems. The entire rack is examined every Monday and slots are re-assigned as necessary to make the filing as un-ambiguous as possible. (4700-xx means 4700-00 through 4700-99, by the way.) The filers' performances are checked daily -- the racks are gone through between 0600 and 0700 to spot mis-filed output. If, after all this effort, things are not getting better, I would like users to let me know directly -- and other suggested remedies (such as #1 above) will be tried in our effort to resolve this problem. (Mike Long)

\*\*\*\*\*

Suggestion for the UPDATE Writeup: An example of a creation run from a file on tape which has no \*DECK card at its beginning.

Next time we update the UPDATE writeups, we will add this. The program STARDEK, documented in the Handbook subset UTILITY, may be used in this instance. (David Gok)

\*\*\*\*\*

(11/14/79 -- 1630) Just because Tape Services has a meeting does not require that all tape activities must be down for more than an hour. Someone should be on duty. Please remedy this impossible situation.

Will do. (Roger Cochran)

\* \* \* \* \*

The Computer Center staff, in its never-ending quest for better communications with the general user community, encourages users to forward all readable (and printable) questions and comments to --

The Suggestion Box  
c/o Computer Center Library  
Bldg. 50B, Rm. 1245A  
Lawrence Berkeley Laboratory  
Berkeley, CA 94720

Responses will be prompt and, it is hoped, helpful.

While it is not necessary to sign your VOX POP submission, we can, in many cases, guarantee a "worthwhile" response ONLY if we can review the matter with you. (Sometimes, we find the questions confusing.) Therefore, if you wish a best answer, or, indeed, any answer at all, it might be prudent to add your phone number or address. It has been, and always will be, policy that Vox Poppers' names and statistics will never be published in the Newsletter.

-----

From time to time, users have dropped long missives, covering many subjects and often reflecting a cumulative disgruntlement, into the Suggestion Box. We find it difficult to address these entries satisfactorily within the framework of the Vox Pop, which was designed to deal with single topics in fairly succinct form. It will be our policy, henceforth, to respond to these longer letters personally and to respond in the Vox Pop to short submissions exclusively.

. . . Maggie Morley, x5529

---

#### STORAGE CHARGES - A REMINDER

Users are reminded that tape storage charges are scheduled to go into effect January 1, 1980. It will cost 37 and 1/2 cents/month (plus LBL overhead) for each tape stored in the ACTIVE library; 17 and 1/2 cents/month (plus LBL overhead) for each tape stored in the INACTIVE library; and 7 and 1/2 cents/month (plus LBL overhead) for each tape stored in the ARCHIVAL tape library. See the article 'RATE CHANGES FOR 1 JANUARY 1980' in the September issue of the Computer Center Newsletter, Pg. 3, item 2, for further details on tape storage.

Currently, all tape mounts cost 10 CU's. In January, the cost will be reduced to 5 CU's for ATL (Automated Tape Library) tape mounts.

PSS space will not be charged for until all data cells have been moved to disk. However, UNIX storage charges will go into effect on January 1 (see 'UNIX ADMINISTRATIVE NEWS' in BKYNEWS).

In addition to these changes, tape entry transactions will be charged for. See the above mentioned article in the September Newsletter, Pg. 4, item 4, for further details. The Newsletter can be obtained from Maggie Morley, x5529, 50B/1245A.

. . . The Consultants, x5981

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#### 6000 CACHE SETBACK

Due to hardware problems, we are sorry to announce a further delay in bringing up the 6000 disk cache system. Please stand by for further news.

. . . Phil Bernzott, x5746  
. . . Lorraine Osterer, x5118

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**KCAP**

COMPUTER CENTER STATISTICS

SYSTEM PERFORMANCE IN NOVEMBER	7600	6600	6400	1170A
System Availability	92.11%	94.75%	98.14%	93.48%
Median Service Interval	9.13 hrs	21.24 hrs	51.90 hrs	15.45 hrs
Jobs Processed	65,585	26,982	(92,567 total)	

7600 TURNAROUND TIME	20 min	2 hrs	4 hrs
% of RUSH jobs returned	84.82	96.32	97.83
% of ALL jobs returned	78.25	90.52	93.71
% returned, CU limit = 100	79.54	91.82	94.12
% returned, CU limit = 500	62.02	78.05	86.41
% returned, CU limit > 1000	28.11	50.35	61.33

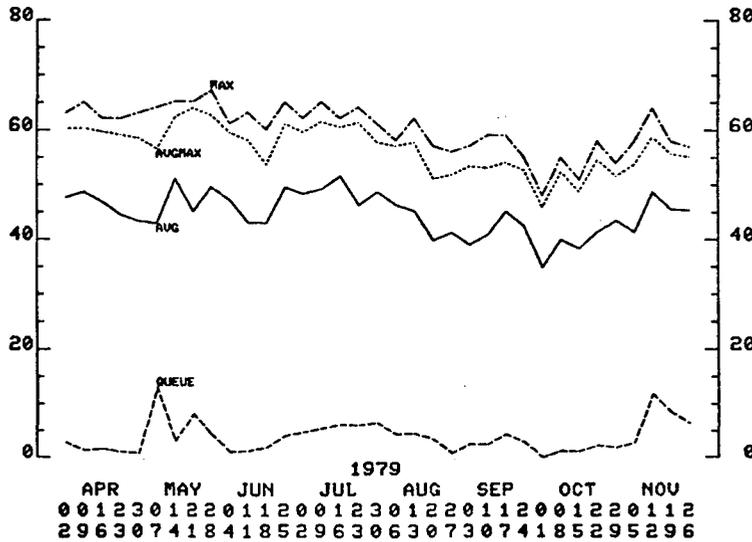
L  
 P  
 BRIDGE

INTERACTIVE STATISTICS

LBL COMPUTER CENTER  
PERFORMANCE MEASURES

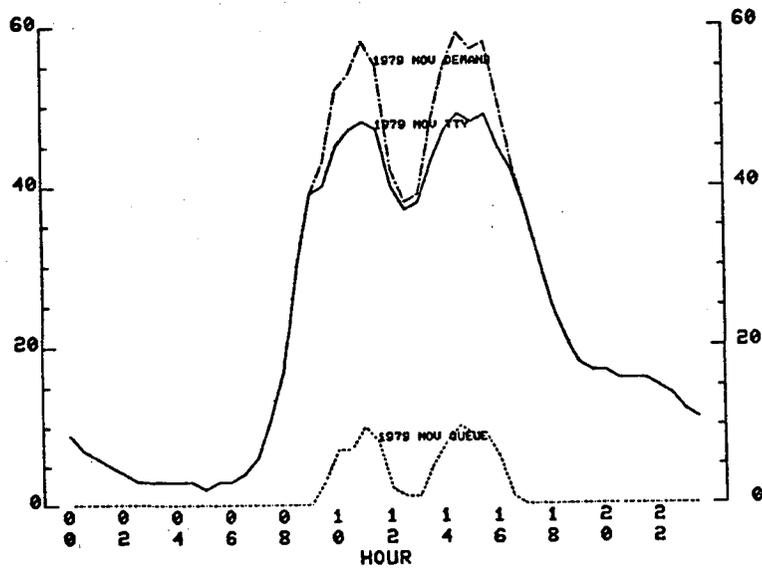
INTERACTIVE TERMINAL ACTIVITY

NUMBER OF TERMINALS CONNECTED AND QUEUED  
SAMPLED AT HOURLY INTERVALS, PRIME USE PERIODS, WORKDAYS



LINE  
 READING  
 LINE

LBL COMPUTER CENTER  
PERFORMANCE MEASURES  
INTERACTIVE CONNECTIONS AND UNSATISFIED DEMAND  
6600 AND 6400 COMPUTERS  
NOVEMBER 1979 WORKDAYS



... Howard White, x5775

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**LB**