Lawrence Berkeley National Laboratory

LBL Publications

Title

LBL Computing Newsletter Vol 20 No 7

Permalink

https://escholarship.org/uc/item/0j43g9p4

Author

Lawrence Berkeley National Laboratory

Publication Date

1983-07-01

Copyright Information

This work is made available under the terms of a Creative Commons Attribution License, available at https://creativecommons.org/licenses/by/4.0/

eScholarship.org Powered by the California Digital Library
University of California

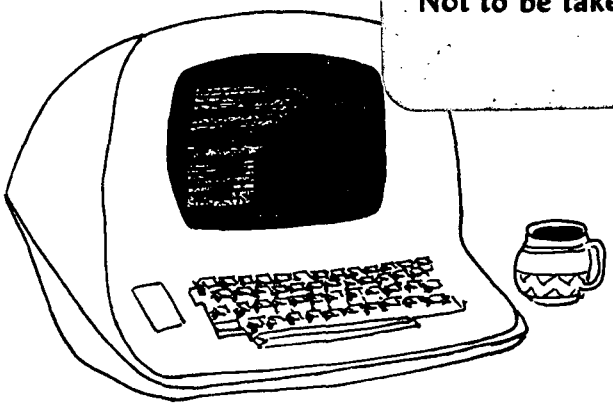
DISCLAIMER

This document was prepared as an account of work sponsored by the United States Government. While this document is believed to contain correct information, neither the United States Government nor any agency thereof, nor the Regents of the University of California, nor any of their employees, makes any warranty, express or implied, or assumes any legal responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by its trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof, or the Regents of the University of California. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof or the Regents of the University of California.

PUB-429

For Reference

Not to be taken from this room



LBL COMPUTING NEWSLETTER

Lawrence Berkeley Laboratory
University of California, Berkeley

Volume 20, Number 7 July 1983

RECEIVED
JUL 19 1983
Pub FILE
L.B.L. LIBRARY

TABLE OF CONTENTS

NAMES & NUMBERS TO KNOW 2
Terminal Switch Access Names 3
News of Local User Groups 4
STARTING UP a Local User Group 4
DATATRIEVE LUG News 4
VAX LUG News 4
GRAPHICS LUG News 4
RSX LUG News 4
RT-11 LUG News 4
Personal Computer LUG 4
VAX Classes in August 4
50A User Area Goes Away 5
Handouts in the Consultants' Office 5
Datatrieve/RMS Problem 6
PM Schedule effective 7/1/83 7
Systems Performance in May 1983 7

To get on the mailing list for the LBL Computing Newsletter, contact Dortha Hines, 50B/1129, x6094.

Newsletter Closing Date is July 12, 1983.

Address all communications for the Newsletter to Maggie Morley, 50B/1245A, (415) 486-5529; or to login **mam** on VAX and/or UNIX.

PUB-429

Lawrence Berkeley Laboratory is an equal opportunity employer.

NAMES AND NUMBERS TO KNOW

From on-site, dial <xxxx> From off-site, dial (415) 486-<xxxx> From FTS line, dial 451-<xxxx>

	COMPUTER POLICY BOARD
50D/106 .....x6722	William A. Lester, Jr., *Chairman*
50A/4112.....x5511	Walter D. Hartsough
50B/3238.....x5313	Paula K. Hawthorn
50A/4119.....x5131	George L. Pappas
90 /3215 .....x6286	Henry Ruderman
50 /137 .....x7087	Mark Strovink
90 /1106.....x5728	Chin-Fu Tsang
71 /259.....x4825	Michael S. Zisman
	OFFICE OF COMPUTING RESOURCES
50A/4112.....x4764	Robert J. Harvey, *Head*
50B/2258A x5739	James A. Baker
50B/2258B.....x7344	David F. Stevens
50B/2258C x7083	Kenneth G. Wiley
	COMPUTATION DEPARTMENT
50B/2232E.....x5224	Paul Rhodes, *Department Head*
50B/2232A x5775	Howard White, Deputy Department Head
50B/2232B.....x6287	Margaret Yamada, Administrator
50B/2232C x6296	Everett Magnuson, Budget Manager
50B/2262C x5455	F. Marvin Atchley, Computer Operations & Networks
50B/2232D x5351	Eric Beals, Consulting & User Relations
50A/1127A.....x5568	Jerry Borges, Operating Systems & Product Set
50B0/2274.....x6019	John Colonias, Applications
	DEPARTMENTAL SERVICES
50B/2232.....x5871,2	Central Office Number
50B/1245.....x5981	Consultants' Office
50B/1245A x5529	Computation Department Library: Maggie Morley
50B/1215.....x6211	Operations
x5311	Coke/Cope Operator
50B/2249.....x6205	Expediter Services: Irene Bernal
50B/2215A x6256	Keypunch Service
50B/2249.....x6219	PSS (Program Storage System): Tape Services
50B/1245.....x6094	GSS Tape Repair Service: Dortha Hines
50B/1245.....x6094	Sticky Label Service: Dortha Hines
90 /3136.....x6494	Building 90 Remote Job Entry (RJE) Station
50B/2276.....x6310	To open or change an account, Fran Permar
50B/2232.....x5654	Guest cards, locker space, & parking permits: Gean Broughton
50B/2249A x7444	To connect a remote terminal (RJE or interactive): Ann Mills
50B/2259.....x5354	Terminal or Port Repair: Electronics Maintenance
50B/1237A x7005	UNIX System Manager: Chuck Cooper
50B/2262.....x6720	VAX System Manager: Randall Bean
50B/2262A x5234	VAX System Manager: Gil Johnson
50B/1245A x5529	Introductory seminars: UNIX: Maggie Morley
50B/1245.....x6094	WRITEUPS & HANDBOOK on fiche: Dortha Hines

PUB-429 12-82/1200
Prepared for the U.S. Department of Energy under Contract DE-AC03-76SF00098

TERMINAL SWITCH ACCESS NAMES

COMPUTER	DEVELCON DIRECTORY NAME	- - - GANDALF CLASS CODE - - - 300 bps	1200 bps	9600 bps
VAX Program Development Machine	**PDM**	na	na	na
VAX Numerical Modeling Machine	**NMM**	na	na	71
VAX Interactive Graphics Machine	**IGM**	na	na	73
PDP 11/70 (UNIX 1)	**UNX1**	15	na	11
PDP 11/70 (UNIX 3)	**UNX3**	55	na	51
CDC 6600B, 6400C	**RECC**	05	03	01
IBM 4341 (UCB)	**CCDB**	na	na	na

(1) **na** means NO DIRECT ACCESS. However, Indirect access from **GANDALF** to all computers is available via **DEVELCON**.

GANDALF class code **67** connects you to **DEVELCON**.
(Then) enter **return** (<cr>) so that **DEVELCON** can determine your terminal speed.
DEVELCON responds with **Request**:
(Then) you enter your **DEVELCON** directory name and a carriage return.

(If you use this method more than occasionally, please contact Sig Rogers, x6713).

‡‡ **Note**: There are many additional hosts operated by other groups that are available on the terminal switches. To gain access, you should make arrangements directly with the appropriate group representative.

(2) **ACCESS FROM GANDALF/DEVELCON**

GANDALF -- with TSB$^{\phi}$

1. Turn on terminal.
2. Push button on TSB.
3. When green light comes on, hit <**cr**> (return).
   GANDALF will prompt with an asterisk (*)
5. Enter class code (e.g., "51" for UNX3) & <**cr**>
   GANDALF will prompt with **SERVICE XX START"**
6. Another <**cr**> will get you the host prompt.

GANDALF -- without TSB$^{\phi}$

1. Turn on terminal.
2. Hit **BREAK** key.
   GANDALF will prompt with an asterisk (*)
3. Enter class code (e.g., "11" for UNX1) & <**cr**>
   GANDALF will prompt with **"SERVICE XX START"**
4. Another <**cr**> will get you the host prompt.

DEVELCON

1. Turn on terminal.
2. Push button on TSB$^{\phi}$. When green light comes on, hit <**cr**>.
3. When you get a **Request:** prompt, enter host directory name (e.g., **unx1**), followed by a <**cr**>.

(3) **DIAL-UP ACCESS** to **DEVELCON** is available.

486-4959 -- 300 BPS
486-4979 -- 1200 BPS
VA-3400 & 212A equivalent.

. . . Sig Rogers, x6713

$^{\phi}$ (Blue) Terminal Support Box

NEWS OF LOCAL USER GROUPS

Lab folks who are interested in establishing a Local User Interest Group on site should contact Sally Shlaer, x4687.

DATATRIEVE LUG NEWS

The next meeting of the Datatrieve User Group will be held at 1:30 PM Monday, July 18, in the Bldg. 70A Conference Room (70A/3377). There will be discussion of appointment of group officers. For more information, contact LUG facilitator . . .

. . . Valerie Sherriffe, x5362
or x4460

= = = = =

VAX LUG NEWS

The next meeting of the VAX Local User Group will be held at 2 PM Tuesday, July 19 in the Directors' Office (50A/5142). For more information, contact LUG facilitator . . .

. . . Nancy Deerinck, x4691
or x6411

= = = = =

GRAPHICS LUG NEWS

Users who are interested in organizing a GRAPHICS Local Users Group at LBL are requested to contact Maggie Morley (x5529, mam/MAM on unx/VAX) or . . .

. . . Jim Miller, x6255
(**JMILLER** on IGM)

RSX LUG NEWS

Users interested in attending the July meeting of the RSX Local User Group should contact . . .

. . . Everett Harvey, x6411

= = = = =

RT-11 LUG NEWS

The next meeting of the RT-11 User (Lunch) Group will be held at noon on Thursday, July 7 in the Bldg. 46A Conference Room. **Sally Shlaer** will talk about Modern Software Engineering. For more info, contact . . .

. . . Mike I. Green, x4607

= = = = =

PERSONAL COMPUTER LUG

After the recent IBM PC (extended) and APPLE LISA demonstrations, several users expressed interest in forming a Personal Computer Local User Group.

The contact person at UCB for pricelists and discount packets is Penny Gee, 642-5205; the contact person at LBL is Kathleen Handron, x5474.

Those interested in initiating an organizational meeting should contact Maggie Morley, x5529 (mam/MAM on unx/VAX) or . . . or . . .

. . . Jim Miller, x6255
(**JMILLER** on IGM)

VAX CLASSES IN AUGUST

VAX user classes will be given in August from 10 AM to noon in the NRCC Conference Room, Bldg. 50D, Rm. 116.

Wednesday	August 3
Friday	August 5
Wednesday	August 10
Friday	August 12

The number of participants is limited, and advance registration is required. To register, please contact Lisa Long, x5947.

. . . Noel Brown, x4387

"The race may not be to the swift,
nor the victory to the strong,
but that's how you bet."

. . . Damon Runyon

THE 50A USER AREA IS GONE

Recent programmatic and organizational additions and changes have required consolidation of activities in many areas. One result is that the Computer Center activities must be consolidated with less space than present. Rm. 1175 in Bldg. 50A will become occupied by members of the Administrative Data Processing group. There is no space available to relocate the user lockers in that room. Out of a total of 548 half-lockers in both user room, we will lose 318. The 230 half-lockers in Bldg. 50B, Rm. 1237 will remain.

We compared the distribution of lockers with computer usage, and reassigned space as fairly as we could. Persons with more than one locker in **either** of these rooms have been required to give up space, and persons not now using computer time have been asked to remove their materials to their own facilities. The lockers in 50A-1175 will be removed on **JUNE 24**. If lockers are not cleared & materiel moved by that date, contents will be stored in a temporary location (to be announced).

We have tried to get in touch with all locker assignees affected by the loss of locker space, both by telephone and by letter. If you have any questions about your current locker assignment, or need to retrieve stored materials, please call Lisa Long or Peggy Yamada at x5947.

The user terminals in Rm. 1175 have been relocated to Bldg. 50B, Rm. 4224.

. . . F. Marvin Atchley, x5455

HELPFUL HANDOUTS

The following handouts, which might prove helpful in **GETTING STARTED** on Computation Department systems, are available at the Consultants' office, Bldg. 50B, Rm. 1245.

(1) *** The Berkeley Campus Link To LBL**
Describes how to use the link between the Lawrence Berkeley Laboratory (LBL) CDC computers and the Berkeley campus general access computing facilities.

(2) *** Transferring Files via Hyperchannel**
Describes the hyperchannel as a high speed link allowing users to submit jobs to the BKY (CDC) 7600 and 6000's. This link may also be used to transfer files from one machine to another by way of the BKY (CDC) machines.

(3) *** Help Mail**
Describes how to send mail from one system to a different system.

(4) *** ENCODE -- Creating ASCII/EBCDIC Tapes**
Describes ENCODE -- a utility program that allows users to create an ASCII or EBCDIC tape. This program is for users who want to create a tape that is to be read on another computer.

(5) *** CODE9 -- Reading EBCDIC/ASCII Tapes**
Describes CODE9 -- a utility program that converts EBCDIC and ASCII tapes to display code (the CDC character set).

(6) *** Strange Tape Identification Procedure**
Describes the various jobs that can be run on the 6000's to aid in identifying the tapes structure and contents.

(7) *** CUE-CHART -- Hardcopy via TIDIN**
Introduction giving summary of CUE-CHART commands, example of a CUE-CHART session, and hardcopy output via Technical Information Division.

(8) *** DI3000**
Newsletter article (Nov. '82) talking about DI3000, GRAFMAKER, Contouring & Metafile Translator. (Written by Shirley Dawson).

(9) *** IDDS Figures**
These are the figures (pictures) that are to be inserted in the on-line IDDS writeup.

(10) *** SPIRES**
Describes SPIRES -- a generalized information retrieval and data base management system. Gives an overview and a description of the SPIRES system.

(11) *** Computer Center Rate Schedule**
Describes all computing charges and the various equipment associated with these charges.

(12) *** UNIX TSET**
Describes the various types of terminals in use on the BKY UNIX system. It also describes UNIX's ability to tailor the output being sent to a terminal to correctly and fully utilize the features available in that terminal and to provide timing delays as required.

(13) *** Mail At LBL**
Describes a mechanism that now exists to send electronic mail between many of the major time-sharing computers at LBL, the Berkeley campus and beyond.

(14) *** VAX Help**
Lists the names of the on-line HELP documentation available to the users through the VAX system and the format to use to access the help articles.

(15) *** UNIX Help**
Lists the names of the on-line HELP documentation available to the users through the UNIX system and the format to use to access the help artcles.

(16) *** DATATRIEVE Help**
Lists the names of the on-line help documentation available to the users through the Datatrieve system and the format to use to access the HELP artcles.

(17) *** TID UNIX Command Summary**
Provides an easy reference for commonly-used UNIX commands.

(18) *** UNIX Editor Command -- Quick Reference**
Provides a quick reference for VI and EX editor commands.

(19) *** VAX Software Overview**
VAX product set overview and VAX Documentation price list.

(20) *** VAX On Line Graphics Help**
All VAX help artcles for DI3000, DICOMED, GRAFPAC, GRINNELL, Hbook, Hplot, IDDS, Tell-A-Graph, Cue-Chart, IMLAC, AED, Tektronics, and ZETA.

(21) *** Terminal Rental Permission**
Terminal rental permission forms.

(22) *** Terminal Rental Terms and Conditions**
Terms and conditions computer terminal rental form agreement.

(23) *** Plot Sending on VAX and CDC**
Describes how to queue a "plot" file for processing on a graphics device for the CDC and the VAX by use of the graphics control card on the CDC, and the plotsend command on the VAX.

(24) *** Disposing on the CDC**
Exhaustive summary of DISPOSE options.

. . . Maggie Morley, x5529

DATATRIEVE/RMS PROBLEM

Several users have been disconnected from the computer while modifying a domain in Datatrieve. They receive the error message "record too large for user's buffer". This is an RMS error which corrupts the file's indexing information.

Datatrieve and RMS are **DEC** products. A system crash dump has been taken and a Special Product Report has been filed with them. Hopefully, **DEC** will promptly fix the bug.

In the meantime there are several ways to correct the corrupted domain.

One way is to copy the corrupted domain into a temporary domain. Then erase the corrupted domain and recopy the temporary domain back to it.

Another way is to locate the corrupted record and delete it. Log in and use the following commands:

DTR> **READY** DOMAIN **WRITE**

DTR> **PRINT ALL RUNNING COUNT,** FIELDNAME

Get the number of the bad record. It's the large record.

DTR> **SELECT #**

DTR> **ERASE**

DTR> **EXIT**

At this point you will be disconnected from the computer but log back on and you will have a clean domain.

. . . Noel Brown, x4387

UCLBL COMPUTATION DEPT.

VAX PM SCHEDULE

EFFECTIVE July 1, 1983

7600 (CDC) Mondays
CDC ..... 0500 - 0800
Thursdays
CDC ..... 0600 - 0800

6600B (CDC) Tuesdays
CDC ..... 0500 - 0800

6400C (CDC) Mondays
CDC ..... 0500 - 0800

UNIX1 Sunday, May 15
RTSG .... 0030 - 0600
Monday, May 16
RTSG .... 0030 - 0600
Tuesday, May 17
RTSG .... 0030 - 0600

UNIX2 Thursday, May 19
RTSG .... 0030 - 0600

UNIX3 Saturday, May 21
RTSG .... 0030 - 0600

IGM Sunday, May 22
RTSG .... 0000 - 1200
Monday, May 23
RTSG .... 0000 - 0800
Tuesday, May 24
RTSG .... 0000 - 0800
Wednesday, May 25
RTSG .... 0000 - 0800

NMM Friday, May 27
RTSG .... 0000 - 0800

PDM Wednesday, May 11
RTSG .... 0000 - 0800

ATL Thursdays
Maint ... 0600 - 0800

COM Tuesdays
Maint ... 0700 - 0900

PSS Wednesdays
CDC ..... 0600 - 0800

SYSTEMS PERFORMANCE

IN MAY 1983

7600
Systems Availability 95.80%
Median Service Interval 16.90 (hrs)

6000B
Systems Availability 98.53%
Median Service Interval 55.92 (hrs)

6400
Systems Availability 98.08%
Median Service Interval 49.52 (hrs)

UNIX1
Systems Availability 93.31%
Median Service Interval 33.56 (hrs)

UNIX3
Systems Availability 98.93%
Median Service Interval 76.12 (hrs)

PDM
Systems Availability 96.60%
Median Service Interval 55.19 (hrs)

NMM
Systems Availability 98.58%
Median Service Interval 45.03 (hrs)

IGM
Systems Availability 95.93%
Median Service Interval 55.63 (hrs)

- - - - - - - - - - - - - - -

Total No. of Jobs Processed: **53,864**
6000's - **21,961** : 7600 - **31,885**

- - - - - - - - - - - - - - -

7600 TURNAROUND TIME

% of RUSH jobs returned

20 min	**2 hrs**	**4 hrs**
90.43	99.25	99.66

% of ALL jobs returned

20 min	**2 hrs**	**4 hrs**
83.71	94.25	96.54

% returned, CU limit = 100

20 min	**2 hrs**	**4 hrs**
79.01	98.77	98.77

% returned, CU limit = 500

20 min	**2 hrs**	**4 hrs**
83.17	97.32	100.00

% returned, CU limit $\geq$ 1000

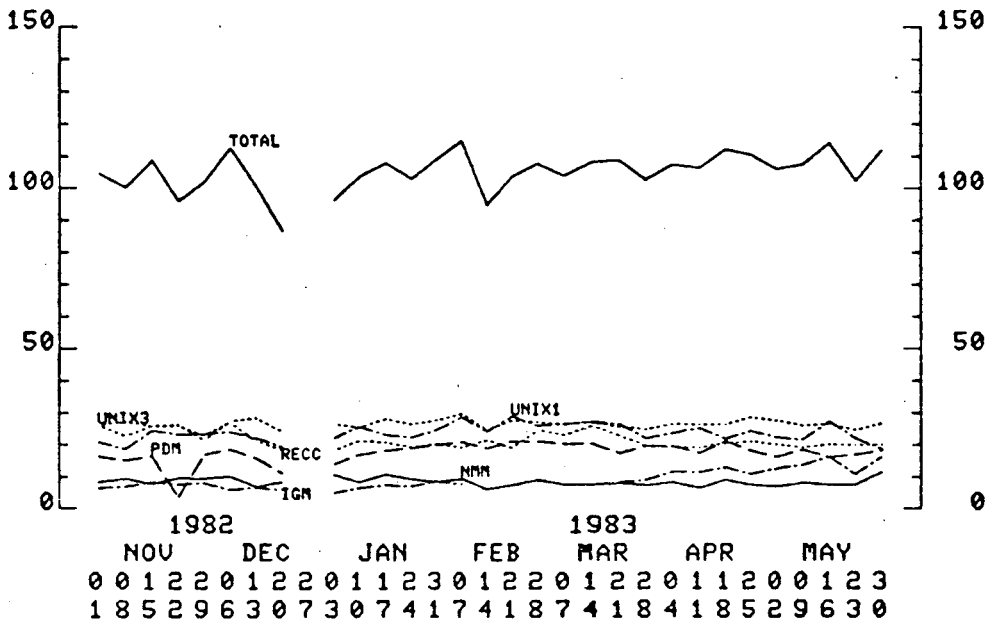
20 min	**2 hrs**	**4 hrs**
41.59	67.36	73.88

INTERACTIVE STATISTICS

LBL COMPUTER CENTER
PERFORMANCE MEASURES

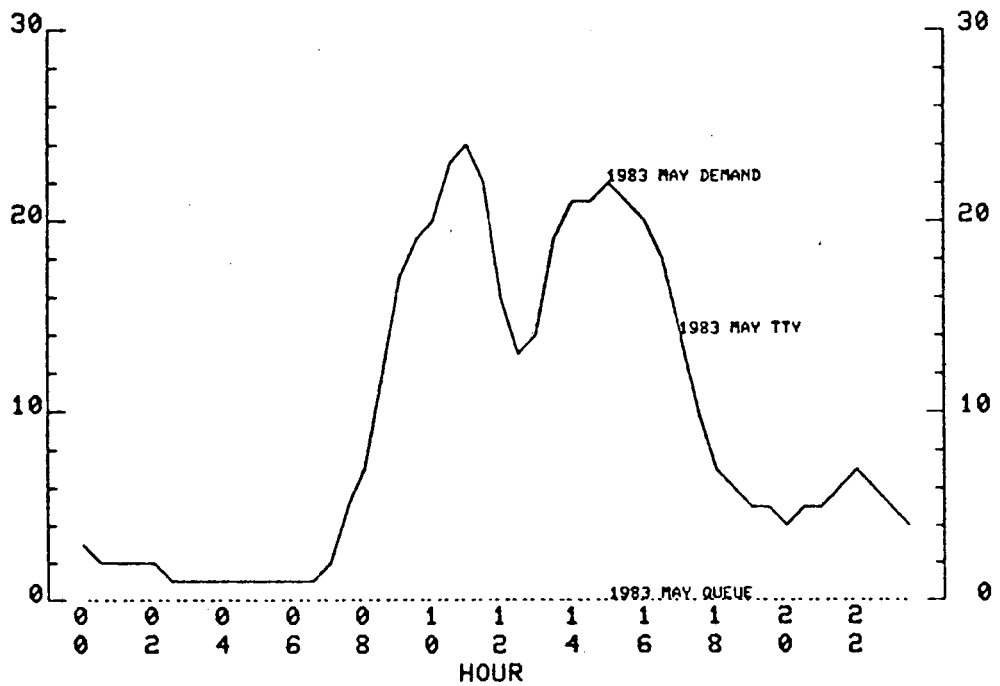
INTERACTIVE TERMINAL ACTIVITY

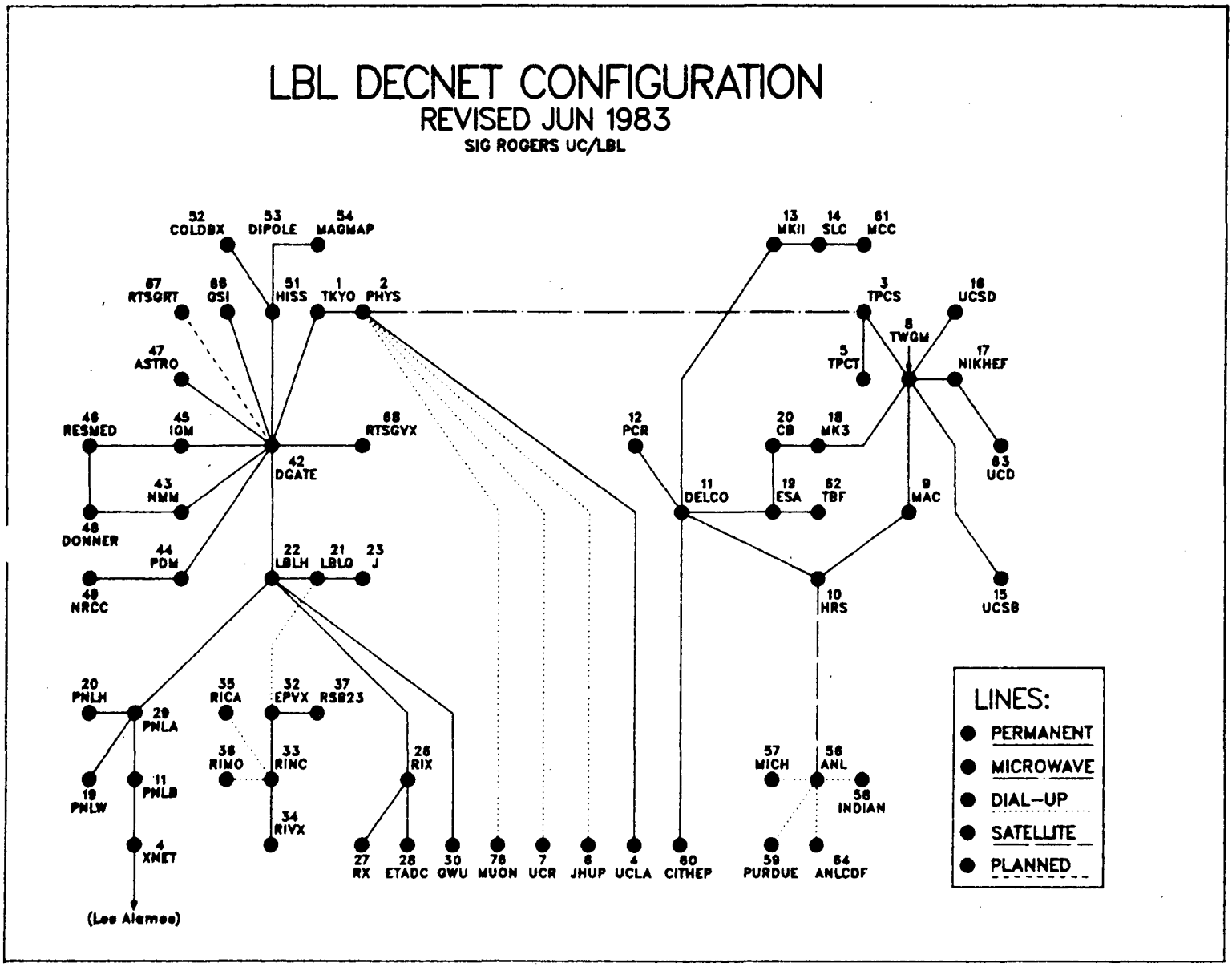
AVERAGE NUMBER OF TERMINALS CONNECTED
SAMPLED AT HOURLY INTERVALS, PRIME USE PERIODS, WORKDAYS



RECC CONNECTIONS AND UNSATISFIED DEMAND
6600 AND 6400 COMPUTERS

MAY 1983 WORKDAYS




LBL DECNET CONFIGURATION
REVISED JUN 1983
SIG ROGERS UC/LBL
52 COLDBX
53 DIPOLE
54 MAGMAP
67 RTSORT
66 QSI
51 HISS
1 TKYO
2 PHYS
47 ASTRO
46 RESMED
45 IOM
68 RTSGVX
42 DGATE
43 NMM
48 DONNER
44 PDM
49 NRCC
22 LBLH
21 LBLO
23 J
20 PNLH
29 PNLA
19 PNLW
11 PNLB
4 XNET
(Los Alamos)
35 RICA
32 EPVX
37 RSB23
36 RIMO
33 RINC
34 RIVX
26 RIX
27 RX
28 ETADC
30 GWU
76 MUON
7 UCR
6 JHUP
4 UCLA
60 CITHEP
13 MKII
14 SLC
61 MCC
3 TPCS
16 UCSD
8 TWGM
5 TPCT
17 NIKHEF
12 PCR
20 CB
18 MK3
83 UCD
11 DELCO
19 ESA
62 TBF
9 MAC
10 HRS
15 UCSB
57 MICH
58 ANL
58 INDIAN
59 PURDUE
64 ANLCDF
LINES:
PERMANENT
MICROWAVE
DIAL-UP
SATELLITE
PLANNED

Computation Department Library
Bldg. 50B, Rm. 1245A
Lawrence Berkeley Laboratory
One Cyclotron Road
Berkeley, CA 94720