

DISCLAIMER

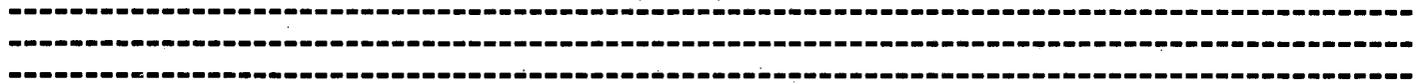
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PUB-429

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Volume 21, Number 4
April/May, 1984

L B L
COMPUTING
NEWSLETTER



H I G H L I G H T S I N M A Y

TEMPUS FUGIT - THE 7600 IS GOING AWAY
The COUNTDOWN is well along. Have you made plans to move your files to another system? (Page 4)

HERE'S THE **HELP DESK**
Introducing Ed Rosenthal and Dan Van Zile, who will answer your questions and give you good advice. (Page 4)

KERMIT IS UP AND RUNNING.
Now you can hop all over the computing landscape, using most any kind of computer. (Page 5).

"AT" IS AT YOUR DISPOSAL
Now you can submit UNIX jobs to run later -- at the time(s) of your choice. Avoid those mid-day crowds; use AT. (Page 7)

"Would you tell me please, which way I ought to go from here?"
"That depends a good deal on where you want to get to," said the Cat.
Lewis Carroll
Alice's Adventures in Wonderland

For Reference
Not to be taken from this room

PUB-429

NAMES & NUMBERS TO KNOW

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

COMPUTING DIVISION

Head: Leroy Kerth7474 50B - 2232

OFFICE OF COMPUTING RESOURCES

Head: Ken Wiley7083 50B - 2258

ADVANCED DEVELOPMENT GROUP

Head: Dennis Hall6053 50B - 3238

COMPUTING SERVICES

Central Office5871,2 50B - 2239
Guest Cards & Parking Permits5947 50B - 2239

COMPUTING SERVICES

Operating Systems & Product Set

Head: Jerry Borges5568 50C - 106

COMPUTING SERVICES

Applications Group

Head: John Colonias6019 50B - 2262B

COMPUTING SERVICES

User Services

Head: Eric Beals5351 50B - 4224C
Accounting6310 50B - 4224B
Library/Document Sales6094 50B - 1237
Short Courses, VAX5947
Short Courses, UNIX5529 50B - 1245A
GSS Tape Repair Service6094 50B - 1245
Sticky Label Service6094 50B - 1245

COMPUTING SERVICES

Computer Operations & Networks

Head: F. Marvin Atchley5455 50B - 2239A
Assistant Mgr: Sandy Merola4389 50B - 2239B
Operations Area6211 50B - 1215
Cope/Coke Operator5311
Connecting a Remote Terminal7444 50B - 2249A
PSS (Program Storage System)6219 50B - 2249
Bldg 90 RJE5450 90 - 3136
Terminal or Port Repair5354 50B - 2259
Help Desk1232 50B - 5981
UNIX System Manager7005 50B - 1232
IGM System Manager6720 50B - 1232
NMM, PDM System Manager5234 50B - 2262A
Expediter Services6205 50B - 2249
Magnetic Tape Library6219 50B - 2249
Keypunch Service6256 50B - 2215A

Dial-up Access to Develcon

300 BPS486-4959
1200 BPS486-4979
VA-3400 & 212A are equivalent

Operating Hours

All machines are available 24 hours daily.
With these exceptions.

6000's, 7600.....	M.....	7 AM to 9 AM
7600, ATL.....	Th.....	7 AM to 9 AM
COM.....	T.....	7 AM to 9 AM
PSS.....	W.....	7 AM to 9 AM
UNX1.....	Sun 4/ 8.....	12:30 to 6 AM
UNX2.....	Sun 4/15.....	12:30 to 6 AM
	Mon 4/16.....	12:30 to 6 AM
UNX3.....	Sun 4/21.....	12:30 to 6 AM
IGM.....	T 4/22.....	12:30 to 8 AM
NMM.....	T 4/24.....	12:30 to 8 AM
	W 4/25.....	12:30 to 8 AM
	Th 4/26.....	12:30 to 8 AM

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LBL COMPUTING NEWSLETTER

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7 6 0 0 G O I N G A W A Y

A Friendly Reminder . . .

As announced in the March 1983 Computer Center Newsletter, the CDC complex (6000's and 7600) is going away soon.

Users are encouraged to initiate plans for replacement alternatives if they have not yet done so.

D E P A R T M E N T A L M A T T E R S

HERE'S THE HELP DESK

Ed Rosenthal

The help desk is part of the information service for the Laboratory's Computation Division. It offers the user a substantial amount of documentation and handouts as well as answers to most user's questions. General questions can usually be answered immediately, but more complex questions will be referred to a specialist in that area.

The function of the help desk is not consulting. It will serve the user as a guide and referral service. Users needing extensive consulting should expect to pay for the software specialist's time.

The help desk, located in Bldg. 50B, Rm. 1232, is manned by Dan Van Zile and Eddie Rosenthal. Hours are 9 AM to noon, and 1 to 4 PM, Mon through Fri. (415) 486-5981. Electronic Mail can be sent to the help desk on pdm, unx1, and unx3 (login **HELPDESK**).

4460's WANING DAYS

Marv Atchley

The last spare Cathode Ray Tube for the Datagraphix 4460 COM Recorder was installed on March 15. These tubes are no longer manufactured. When this tube goes, the COM Recorder goes. Period.

We estimate that this tube will last until the departure of the 7600. However, it could burn out at any time. Therefore, we urge those users who are still using the TV and SC4020 routines to switch -- ASAP -- to the Dicomed, where they can run Display Code, ASCII, and Meta Graphics.

VOGUE LA GALÉ RE

S Y S T E M S N E W S

VAX RSX V1.0 PACKAGE TO BE UNBUNDLED FROM VMS

(In this bright little package, now isn't it odd?
You've a dime's worth of something
known only to God!

... Edgar A Guest)

Edna Williams

The Vax-11 RSX V1.0 package now running on the Computer Services VAX 11/780's (IGM, NMM, PDM) will be unbundled from the VAX/VMS 4.0 operating system. We expect to install VAX/VMS 4.0 this summer; consequently, we must know whether or not to acquire the RSX Compatibility Mode Support Software product. Any user requiring any of the services listed below should contact Noel Brown, x4387 (nbrown:pdm).

The RSX V1.0 package simulates the RSX-11M/11M-PLUS operating system environment and provides the means by which to use the following utilities and products:

- (1) Datatrive-11
- (2) Compatibility mode libraries SYSLIB.OLB, RSXMAC.SML, QIOSYM.MSG, ODT.OBJ, VMLIB.OLB
- (3) Native mode user interface
- (4) Native mode execution support code
- (5) RSX task images
- (6) Indirect command file support such as the System Generation command file for RSX-11's and the network generation command file for DECNET-11's.
- (7) RMS-11 V2.0 utilities, libraries and assorted overlay descriptor language templates needed to build RSX-11 tasks that use RMS-11
- (8) The command line interpreter MCR
- (9) Compatibility mode utilities BAD, BRU, CRF, DMP, DSCI, EDI, FLX, ICM, LBR, MAC, PAT, PIP, SLP, TKB, ZAP

KERMIT IS HERE!!

Noel Brown
Bob Rendler

KERMIT, a generalized protocol for transferring files between computers of all sizes over asynchronous telecommunication lines, is being installed and tested on the three Computer Center VAXes and the two UNIX systems. Many of you are already familiar with **KERMIT**; it is non-proprietary, thoroughly documented, well tested and in wide use.

User manuals are available from the Computing Services Office (50B/1245 x6094). To obtain a diskette of the **KERMIT** program for the IBM PC, contact R. LaPierre, x4692.

To access on-line help on VMS, type:

RUN SYS\$SYSTEM:KERMIT.EXE
(the prompt is "KERMIT32>")

KERMIT32> HELP

To access on-line help on UNIX, type:

help kermit

To access VMS on-line help on PC's, type:

KERMIT.DOC;

For on-line UNIX help on PC's, type

man kermit

and

help kermit

For more info, contact Noel Brown (nbrown:PDM) or Bob Rendler (ren:UNIX1/3).

VAX SYSTEM UPDATES

WHAT'S UP

Gil Johnson

Software for the **VAX/VMS** Version 3.5 Updates (**VAX 11/780**) is on-site and has been installed on the three Computer Center VAXes. Effective with the next major release of VMS, the "Compatibility Mode" functions and **EDTCAI** will be introduced in new independent products. At that time, their functions will no longer be contained in the VMS kit. Associated documentation for this release and all others on this page can be ordered by request to the Computer Center Library. (50B/1237, x6094).

Nota bene: Availability depends upon **promptness of delivery** from DEC.

PART NO.	PART TITLE
AE-L230Y	Cross Reference Table SPD 25.99.24
AV-2345A-TE	Future Compatibility Mode Support
AV-Y499A-TE	Letter
AA-P766A-TE	VAX/VMS Release Notes Version 3.5
AV-D827C-TE	VAX-11 Programming Card

Software for the **VAX PASCAL** Version 2.3 Updates has been installed on the three Computer Center VAXes and associated documentation can be order by request to the Computer Center Library.

PART NO.	PART TITLE
AV-R581C-TE	letter
AA-J181D-TE	VAX-11 Pascal Release Notes Version 2.3

Software for the **VAX DATATRIEVE** Version 2.1 Updates is here and has been installed on the three Computer Center VAXes. Associated documentation can be ordered by request to the Computer Center Library.

PART NO.	PART TITLE
AV-L770C-TE	"Before you install VAX-11 Datatrieve Version 2"
AD-P860A-T1	VAX Datatrieve Summary Description
AA-K083F-TE	VAX-11 Datatrieve Installation Guide and Release Notes.

Software for **VAX-11 C** Version 1.4 Update is here and has been installed on the three Computer Center VAXes. Associated documentation can be ordered by request to the Computer Center Library.

PART NO.	PART TITLE
AV-N671D-TE	"READ THIS FIRST"
AV-W596-TE	Addendum to Release Notes
AA-L491B-TE	Installing VAX-11 C

VAX-11 DEC FORTRAN V3.5 HERE

Allan Konrad

Software for the **VAX-11 DEC FORTRAN** Version 3.5 Update has arrived and is ready to be installed. The following associated document can be ordered by special request to the Computer Center Library.

PART NO.	PART TITLE
AA-H9953C-TE	VAX-11 Fortran Installation Guide & Release Notes

VAX-11 BASIC VERSION 2.2 UPDATE HERE

Ken Wiley

Software for the **VAX-11 BASIC** Version 2.2 Update has arrived and is ready for installation. The following associated documents can be ordered by special request to the Computer Center Library.

PART NO.	PART TITLE
AD-L34A-T1	BASIC Reference Manual UPDI
AD-L335A-T1	BASIC User's Guide UPDI
AE-J848K-TE	VAX BASIC V2.2 SPD 25.36.10

EUNICE V3.2 INSTALLED ON NMM

Marty Gelbaum

On April 10, Eunice version 3.2 was installed on the NMM. Eunice is a system that runs 4.1BSD UNIX under VMS. This new version is essentially the same as the previous version (3.1) except that it has much better documentation for users. Access Eunice by typing "u" after logging into the NMM.

The new documentation is available at the Computer Center Library (50B/1237, x6094). It includes the UNIX Programmer's Manual (Virtual VAX-11 Version), with details on the differences between Eunice and 4.1 BSD UNIX, a list of the 4.1 BSD UNIX commands available through Eunice, and a list of those commands not implemented in Eunice 3.2.

"AT" IS AT YOUR DISPOSAL

Tom Clements

In UNIX, You can use the *at(1M)* command to execute scripts at some future time, and so avoid running when when the machine is very busy. (The (1M) designation indicates the command is used primarily for maintenance. See the on-line manual article)

The following script, once started on Saturday morning, would execute **ARBITRARY COMMANDS** on succeeding Saturday mornings.

```
# this is the file ~user/atfile
ARBITRARY COMMANDS
# now see that the process
# gets run next week
at 9am sat ~user/atfile
```

To start it, type "**at 9am sat ~user/atfile**" any time during the week. (A script like this one ran on UNX3 weekly for a year with no problems).

You can also use the command to run jobs during off hours, thus reducing system load at times of high use. There are also direct benefits for individual *nroff* users. First, you can *nroff* in two separate processes (1) store *nroff* output on a file, (2) print the file on a hardcopy device, using *nrcat*, in

place of a simple *cat*. (See the on-line manual article *nrcat(1)*) . . . By initiating the first during non-peak hours, using *at*, you leave the device free to execute higher-priority processes during the day. Second, hardcopy printout from *nroff* jobs submitted with *at* (or *submit(1)*), will not be spoiled by the intrusion of that unfortunate message "Warning - timeout in 5 minutes" in the middle of the text - because with this method, there is no terminal association.¹

The following is an example of a script, suitable for submitting with *at* (because error output is preserved), doing the first kind of process.

```
# script with redirection of diagnostic output
# record of activity goes to file = $err
set in = ~user/:testat/aasml.tbl
set err = ~user/:testat/err$$
set out = ~user/:testat:/ajout/aasml.tbl
echo before nroff >> $err
date >> $err
# >>& puts diagnostics (stderr) from tbl, nroff on $err
(tbl $in | nroff -Taj830-12 -ms > $out) >>& $err
echo after nroff >> $err
date >> $err
```

The file "\$err" is useful in case something fails. Without it, the only evidence of failure might be a non-existent file "\$out", or a "\$out" file containing 0 bytes.

The *nroff* user should use the script */usr/stuff/nrcat*

ERRATA

Bill Hogan

The article "Page Faulting on Vax" printed in last month's issue requires this change: the word "causing" (paragraph 2) should have been the phrase "which can cause" Also omitted from the article:

- The amount of virtual memory occupied by a Vax program is given on the printable listing obtained by doing LINK/MAP.

- The performance statistics of a BATCH job are given on the LOG file that is put into the "home" directory of the user who SUBMITTED the job, by the system.

¹Jobs submitted by *at* (or by *submit(1)*) don't have an associated terminal so are never logged off for "no CPU access in 25 minutes."

G R A P H I C S N E W S

MORE ON MOVIE.BYU

Cammie Edgington

OLD MOVIE TO BE REPLACED

On June 1, we're putting up a new version of MOVIE.BYU (version 5.1), to replace its old and antiquated predecessor, (version 3.1). It will be on all three VAXen. To access the new version use the logical SYS_MOVIE:.

MORE DEVICE DRIVERS & EXAMPLE FILES ON NEW MOVIE

We've added four more device drivers to the new version of MOVIE.BYU - the IMLAC Series II, the Zeta 1453, the TEKTRONIX 4010 series, and TEKTRONIX 4027. Terminals with TEKTRONIX 4010 emulation can use the TEK 4010 driver. To use these, type

SCOP

after entering MOVIE.BYU. The MOVIE system will respond with the prompt

<DEVICE>

Enter one of following (boldface is user input):

IMLA - IMLAC Series II
TEKT - TK 4010 series (TK 4010 emulation)
TK27 - TK 4027
ZETA - Zeta 1453

Default device is the AED512 in line drawing mode. Other device drivers available at this time are:

A512 - AED512
 (continuous tone and color)
DICO - DICOMED
 (polaroid, 4X5 sheet film, 35mm film)
CPLT - CALCOMP model 84 plotter

More drivers will be made available upon request.

We've added more example files since March. Here is a list of them and their contents

EXP1.GEO	Bullet shape (displayed in last newsletter)
EXP1.GE1	2-stage rocket
EXP1.DS1	Displacement file used to modify EXP1.GEO
EXP2.GEO	Cube figure (6 × 6 × 6)

EXP3.GEO	Thick semi-spheroid
EXP5.GEO	Twisted cube
EX23.DSP	Displacement between EXP2 & EXP3
EX35.DSP	Displacement between EXP3 & EXP5
EX52.DSP	Displacement between EXP5 & EXP2
EXP4.GEO	Cube figure (3 × 3 × 3)
EXP4.FUN	Scalar function for the modification of EXP4.GEO
EXP6.GEO	Solid model cube (used in SECTION module)
EXP6.CUT	Cube processed and cut by SECTION
EXP6.UNC	Cube processed by SECTION (uncut)
EXP7.GEO	3-D title produced by TITLE module
EXP8.GEO	2-D title produced by TITLE module
EX10.GEO	Merged file of EXP6.CUT & EXP8.GEO (done by UTILITY)
EXP9.GEO	Mushroom figure
EXAMPLE.DAT	Contour data file entered in MOSAIC
HILLC.DAT	Contour plot of above to be viewed in DISPLAY
HILL.DAT	Triangulated hill of above to be viewed in DISPLAY
SURF.GEO	Quadrilateral sheet
SURF.FUN	Scalar function to modify SURF.GEO
VIBR.GEO	Box on a spring platform (compressed state)
VIBA.GEO	Box on a spring platform (relaxed state)
VIBR.MOD	Displacement file between VIBR & VIBA

We've created a number of command files, from the MOVIE.BYU Training Manual (in the CC Library, 50B/1245A), to help you familiarize yourself with the capabilities of the movie system. These files run on the default device (AED512). To use them: first copy the command file and the appropriate example file(s) into your directory, then run the program. At the first prompt enter a left angle bracket (<) followed by the command filename. In the following example, boldface is user input:

```
copy sys_movie:mov412.com mov412.com
copy sys_movie:exp9.geo *.
r sys_movie:display
```

```
<MOVIE SYSTEM DISPLAY> - Display program message
<READ GEOM FILE> - First prompt
<mov412.com
```

Location of command files in the Training Manual follows. Example files used by the command files are also listed.

COMMAND FILE	CHAP	PG	EXAMPLE FILES USED	PROGRAM
MOV410.COM;2	4	10	EXP1.GEO	DISPLAY
MOV412.COM;2	4	12	EXP9.COM	DISPLAY
MOV517.COM;3	5	17	EXP1.GEO, EXP1.DS1	DISPLAY
MOV623.COM;2	6	23	EXP1.GEO	DISPLAY
MOV77.COM;3	7	7	EXP2.GEO, EX23.DSP	DISPLAY
MOV713.COM;3	7	13	EXP4.GEO, EXP4.FUN	DISPLAY
MOV716.COM;2	7	16	EXP1.GEO, EXP1.DS1	DISPLAY
MOV718.COM;4	7	18	SURF.GEO, SURF.FUN	DISPLAY
MOV85.COM;3	8	5	EXP1.GEO	DISPLAY
MOV97.COM;4	9	7	EXP3.GEO, EX35.DSP EX52.DSP	DISPLAY
MOV914.COM;3	9	14	VIBR.GEO, VIBR.MOD	DISPLAY
MOV1016.COM;2	10	16	EXP6.UNC, EXP6.CUT	DISPLAY
MOV1110.COM;2	11	10	EXP7.GEO, EX10.GEO	DISPLAY
MOV1316.COM;2	13	16	EXAMPLE.DAT	MOSAIC
MOV1326.COM;3	13	26	HILL.DAT	DISPLAY

MORE NEW DEVELOPMENTS WITH TELL-A-GRAF

Claudette Lederer

A new version (V4.6) of TELL-A-GRAF has been installed on the IGM. With this version, more I/O devices (see below) and options (the Data Connection and TELL-A-PLAN, a project management and planning graphics tool) are available.

To use this version (as well as version 4.6 and future test versions as new devices or interfaces are added), type

\$ TTAG

This environment currently includes the following devices:

- The AED 512 & 767 terminals
- FR80, COMP80/2 film recorders
- HP 2623 terminal
- IBM Personal Computer
- Printer (Any terminal without graphics can be used as a debugging tool)
- Tektronix 4010 series, APPLE (Model 8888) (ADM3A-Retrographics) terminals
- Tektronix 4105, 4112, 4113, 4114, 4116 terminals
- VT125 (GIGI) terminal
- VT100 terminal with retrographics
- Zeta 8, 1453 plotters

The environment is soon to be expanded to include:

- CALCOMP 84, 8-pen plotter
- DICOMED D48 film recorder
- Zeta 3600 4-pen plotter
- HP 7221T plotter
- VT 241 terminal
- Tektronix 4107 and 415B terminals
- Envision 220 terminal
- VERSATEC plotter

Manuals for TELL-A-GRAF, the Data Connection, or TELL-A-PLAN can be obtained from the Computer Center Library (50B/1237, x6094).

NEW GRAFPAC DOCUMENTATION

Debbie Cahn

New manuals for GRAFPAC are now available at the Computer Center Library (50B/1237, x6094). VAX/VMS GRAFPAC (LBID-820) fully describes the version of GRAFPAC running on many VMS machines at LBL. In addition, a draft version of UNIX GRAFPAC, (LBID-821) describes the version of GRAFPAC for VAXen running UNIX, which is currently available on the csmf machine.

4105 DRIVERS NOW AVAILABLE

T1, THE 4105 DRIVER, IS UP ON VAX

Vivian Morgan

The Grafpac Tektronix 4105 driver, T1, is available on the Computer Center VAX machines. Notes on its use are available in the Computer Center Library (50B/1237, x6094).

To link your program, type:

```
$ link <your program>, sys_grafpac:t1/lib
```

DI3000 TEKTRONIX 4105 DRIVER NOW ON IGM

Yee Chan

The DI3000 TEKTRONIX 4105 driver is now available for users on the IGM VAX.

The 4105 is a medium-resolution (480×360) color raster terminal. Eight independent colors are supported in both the GRAPHICS and the DIALOG area from a palette of 64. The TEKTRONIX 4105 is also compatible with the TEKTRONIX 4010 series. A TEKTRONIX 4695 eight color inkjet printer will be attached to the terminal for generating hardcopies of screen images.

Both the TEKTRONIX 4105 and the TEKTRONIX 4695 will soon be available for users in the Graphics lab (50B/1237).

An operation instruction sheet, explaining the keyboard function keys, will be taped on top of the terminal.

For DI3000 users:

Before you run a DI3000 program, make sure the configuration in the terminal COMMUNICATIONS SETUP mode is as follows:

```
ECHO ..... —
IGNOREDEL ..... NO
BAUDRATE ..... — —
XMTLIMIT ..... 19200
STOPBITS ..... —
XMTDELAY ..... 0
PARITY ..... —
PROMPTSTRING ..... "
PROMPTMODE ..... NO
QUEUESIZE ..... 300
FLAGGING ..... IN/OUT
EOMCHARS ..... <CR> <LF>
EOLSTRING ..... '<CR>'
EOFSTRING ..... "
BREAKTIME ..... 200
BYPASSCANCEL ..... <0 0>
```

To compile, link (with TEKTRONIX 4105) and run a DI3000 program, type:

```
$ DI3 (to define DI3000 logical symbols)
```

```
$ FORTRAN your program
```

```
$ LINK your program, 'DI3C', 'T405'
```

```
$ RUN your program
```

('DI3C' can also be 'GRAPH' for GRAFMAKER, or 'CONTOUR' for CONTOURING)

DI-3000, GRAFMAKER, & THE METAFILE TRANSLATOR

Vivian Morgan

We've installed a test version (4.05) of the Graphics System DI-3000, and its associated packages - GRAFMAKER and the Metafile Translator - on the IGM VAX.

There are major changes in this version. These include a new organization of DI-3000, a new linking procedure, and the additions of 20 new subroutines that support new capabilities.

There are now only two levels of DI-3000. The original Level **A** of DI-3000 is now called the standard DI-3000. Levels **B** and **C** have been combined to form **DI-3000 EXTENDED**, which includes image transformations, modelling transformations, retained segments & Segment Storage, the PICK input function, and metafile functions.

Descriptions of some enhancements follow.

- 1) You can now save information on all retained segments you created during a DI-300 session in Segment Storage; then restore them in a later run.
- 2) We've included three new subroutines that save the current primitive attribute values for later use in another segment.
- 3) We've added a new subroutine for fitting and smoothing a curve to a set of two-dimensional data points. This subroutine uses the "Splines under Tension" method for drawing the curve.
- 4) You can now transport a file from one computer system to another: we've introduced a utility program to convert metafile format from binary records to character records.
- 5) We've included three new subroutines that let you read individual items (a command and its associated data values) from a metafile into an application program.

Detailed descriptions of all the enhancements are in the supplement to the DI-3000 Users' Guide, available at the Computer Center Library (50B/1237, x6094).

Nota bene: we've changed the linking procedure. A utility library is now the last module to be loaded and the Metafile driver is no longer automatically loaded. Command procedure **DI3LOAD** has been provided to aid the user in linking.

To try the new version of **DI-3000 EXTENDED**, type
\$ TD13 (To define symbols for the test DI-3000)
\$ FORTRAN program
\$ DI3LOAD program driver code **X**
 (where driver-code can be
T14 for the Tektronix 4010 Series,
AED for the AED 512,
IML for the IMLAC, or
405 for the Tektronix 4105).
\$ RUN program
 For more details, type
\$ HELP @GRAFHELP TDI3000

REGIONAL GATHERINGS

ACM APRIL MEETING:

*"Software Army on the March:
Project strategies & Tactics"*

John Mashey of Convergent Technologies, Inc., is the featured speaker at the April 12 meeting of the San Francisco Peninsula Chapter of the Association for Computing Machinery. His topic: *"SOFTWARE STRATEGIES ON THE MARCH: PROJECT STRATEGIES AND TACTICS"*

Particulars - Location: Dinah's Shack, 4269 El Camino Real, Palo Alto. Schedule: 5 PM, Council Meeting. 6 PM, No-host cocktails. 7 PM, Dinner. 8 PM. Speaker. Cost for the dinner: \$14.50./members \$15.50/non-members. (No charge to hear speaker). To reserve, call (408) 446-2800 before Tuesday, April 10.

For more info, call Mary Fowler (415) 965-6515 or Frank Olken, x5891.

MAY SICBIG MEETING

"The ELEXSI"

Dr. Lin Shar, Vice President of Software at ELEXSI, is the featured speaker at the May 2 meeting of SICBIG, the Special Interest Committee on Large High-Speed Computers (established in the Golden Gate Chapter of the Association of Computing Machinery). His topic: "The ELEXSI". Particulars - Time: 7:30 PM. Location: SRI International on Ravenswood Road in Menlo Park.

On Wednesday, June 6, Dr. Raul Mendez of the US Naval Postgraduate School in Monterey will discuss *"Super Computers: the US and Japanese Industries"* at Stanford University.

Recordings of meeting announcements can be heard by calling (415) 261-4058.

Cassette recordings of previous talks may be obtained from Mary Fowler, TDC ACF (415) 965-6515 (ARPANET - MER.FOWLER@AMES-VMSB),

(Send her a standard blank cassette). Ride sharing Frank Olken, LBL (ARPANET OLKEN@LBL-CSAM) (415) 486-5891

C L A S S E S & S E M I N A R S

GRAPHICS CLASSES IN JUNE

Cammie Edgington
Yee Chan

A series of introductory seminars in graphics at LBL will be given in June and July. Class size is limited, and advance registration is required. For particulars, and to register, please contact Lisa Long, x5947.

"C" CLASSES IN JULY

Marty Gelbaum

An introductory "C" language programming class will be given in July from 10 AM to noon in the Bldg. 50D Conference Room on the following days:

Wednesday	July 18
Friday	July 20
Wednesday	July 25
Friday	July 27

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

VAX CLASSES IN MAY

Noel Brown

VAX user classes will be given in May from 10 AM to noon in the Bldg. 50D Conference Room.

Wednesday	May 16
Friday	May 18
Wednesday	May 23
Friday	May 25

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

There will be no VAX classes in July.

UNIX SEMINARS

Maggie Morley

Short "hands-on" courses in UNIX, to assist the new user or to refresh the old hand, can be scheduled any morning from 10 AM to noon. Call x5529 for more info. (mam:unx3)

In New York City, Fred Fairfax gave his eighth-grade general science students this assignment: "In a few sentences, explain the difference between an inference and an observation."

One student, who was given an "A" despite some lapses in punctuation and sentence structure, wrote: "An inference is an interpretation of an observation. For instance, if you were riding your bike by a house and you saw a dog house in the yard you would **infer** that there is a dog living in that house, but if you saw the owner calling the dog for supper you would **observe** that there is a dog living in that house."

Fred M. Hechinger
NY Times (7 Feb 84)

(. . . from Wm. Hogan, Local Answerable)

NEWS OF LOCAL USER GROUPS

Lab folks who are interested in establishing a Local User Interest Group on site should contact Dennis Hall, x6053.

DATATRIEVE MAY LUG MEETING

Valerie Sherriffe (x4460)

The next meeting of the **DATATRIEVE** Local User Group will be held from 2:30 to 4 PM on Wednesday, May 11, 1984 in the Bldg. 50B Conference Room (50B/4205). This will be an open meeting and new Datatrieve users are especially welcome. We'll concentrate on basics, and help newcomers get started.

JUNE 1st GRAPHICS LUG MEETING

Jim Miller (x6255)

The last¹ meeting of the **GRAPHICS** Local User Group will be held from 2 - 3:00 PM Friday, June 1 at the Bldg. 50A Conference Room (5132). Cammie Edgington and Yee Chan will describe the new **MOVIE.BYU**. There will also be an open organizational meeting to discuss graphics at the Laboratory.

For the GUG information service, type **GUGNEWS** (or **GUG**) on the IGM VAX.

MAY VAX LUG MEETING

Nancy Travis (x6411)

The next meeting of the **VAX** Local User Group has been tentatively scheduled for Tuesday, May 8. The following **VAX** LUG meeting is on June 12. For more info, call me.

MAY UNIX LUG NEWS

Maggie Morley (x5529)

The second meeting of the **UNIX** Local User Group will be at 3 PM Friday, May 25 in Bldg. 50B, Rm. 4205 (Conference Rm.) For more info, contact me (**mam:UNX3**).

The harder you work,
the luckier you get.

. . . Gary Player

MAY TYPESETTING LUG MEETING

Edgar Whipple (x7167)

For more info on the May Typesetting Local Users Group meeting, contact **PHYS:SYSTEM**

MAY PC LUG MEETING

Jim Miller (x6255)

The last² **LBL PERSONAL COMPUTING** Local User Group will meet from noon to 1 PM Thursday, May 24, at 50B/4205. This will be an open meeting to continue discussions of users' personal computer projects.

The talk will be preceded by a short organizational meeting.

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

For the **PCLUG** information service, type **PCLUG-NEWS** (or **PCLUG**) on the IGM VAX.

MAY MEETING OF RT-11 LUNCH BUNCH

Mike I. Green (x4607)

The **RT-11** User (Lunch) Group will meet at noon Thursday, May 3 in the Bldg. 46A (RTSG) Conference Room. Randy Michelson, RTSG consultant, will talk about "Wonderful Things to do With IND."

At the April meeting, Bill Mickols, a postdoc in the Chemistry Department, discussed "Developing an Imaging CD Microscope." -- the physics, chemistry, biology, computer hardware & software associated with these microscopes.

MAY RSX-11 LUG MEETING

Everett Harvey (x6411)

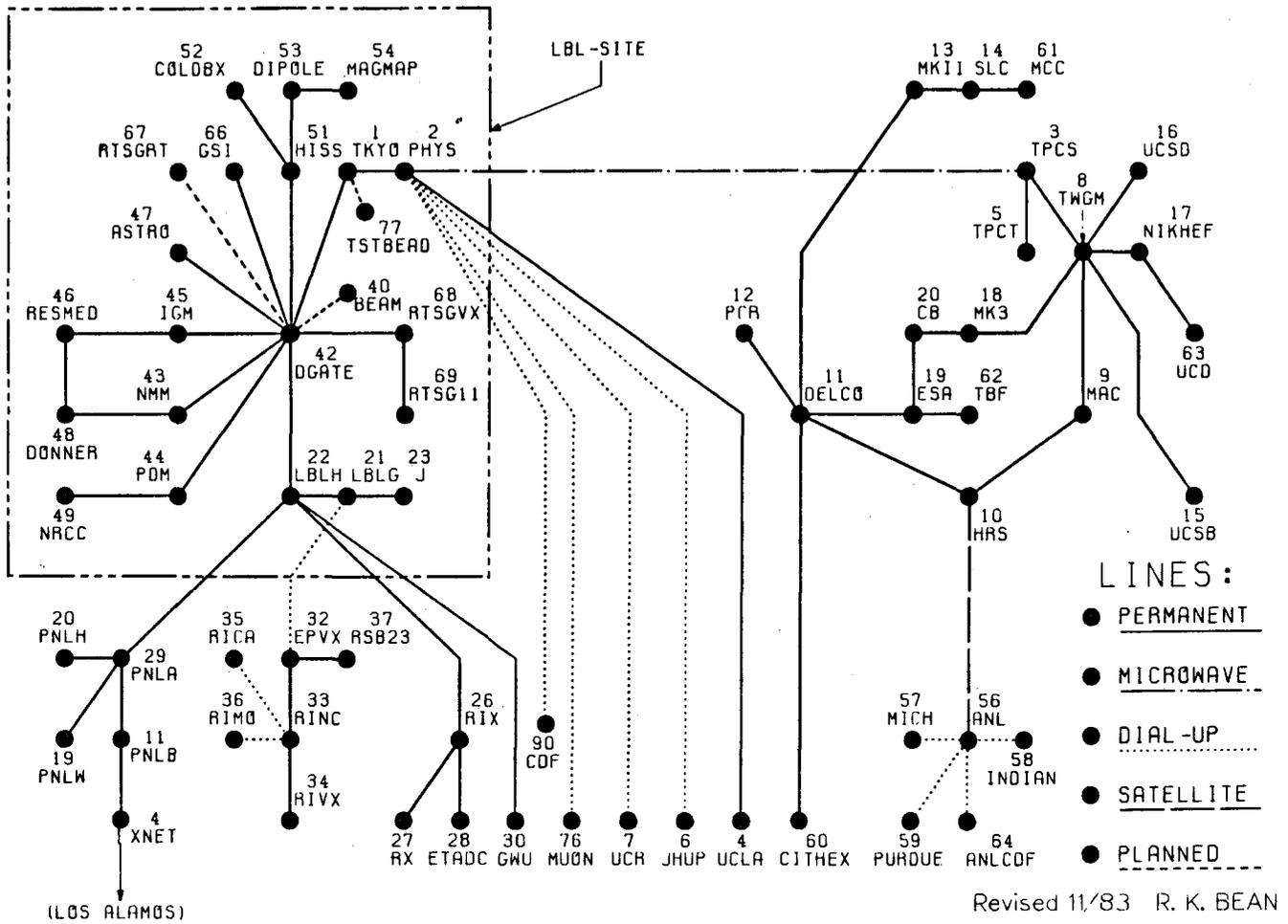
The **RSX-11** Local User Group will meet at 2 PM Thursday May 24 in the Bldg. 46A Conference Room.

Each meeting has a topic (**SYSGENS**, foreign disks, etc.), but there are also general discussions open to whatever people need. Come and find out what these meetings are like.

¹ unless users wish to assume responsibility for running the group

² unless users wish to assume responsibility for running the group

LBL DECTET CONFIGURATION



Newsletter Closing Date is Friday, May 18, 1984 . . . and no later.
 Address all communications for the Newsletter to Maggie Morley, Editor,
 50B/1245 (415) 486-5529; or to login **mam** on all machines.

YES I would like to receive the Computing Newsletter

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Return to:Newsletter - Bldg. 50B, Rm 1245
Lawrence Berkeley Laboratory - One Cyclotron Road
Berkeley, CA 94720
Attention: DORTHA HINES

LAWRENCE BERKELEY LABORATORY IS LOCATED IN THE HILLS ABOVE THE U.C. BERKELEY CAMPUS. THE (CHOCOLATE-COLORED) BUILDING 50 COMPLEX IS LOCATED ACROSS FROM THE (RED & WHITE SHUTTLE) BUS STOP. YOU CAN GET A FREE RIDE TO THE LAB ON THE SHUTTLE BUS : PICKUP POINT IS AT SHATTUCK & CENTER IN DOWNTOWN BERKELEY.

The Computing Newsletter, published monthly, provides much useful current information to our users and is mailed to them free, upon request.

If you would like to have it sent to you, simply fill out the form inside and your name will be added to our mailing list.

Computing Services Library
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