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JULY
1990

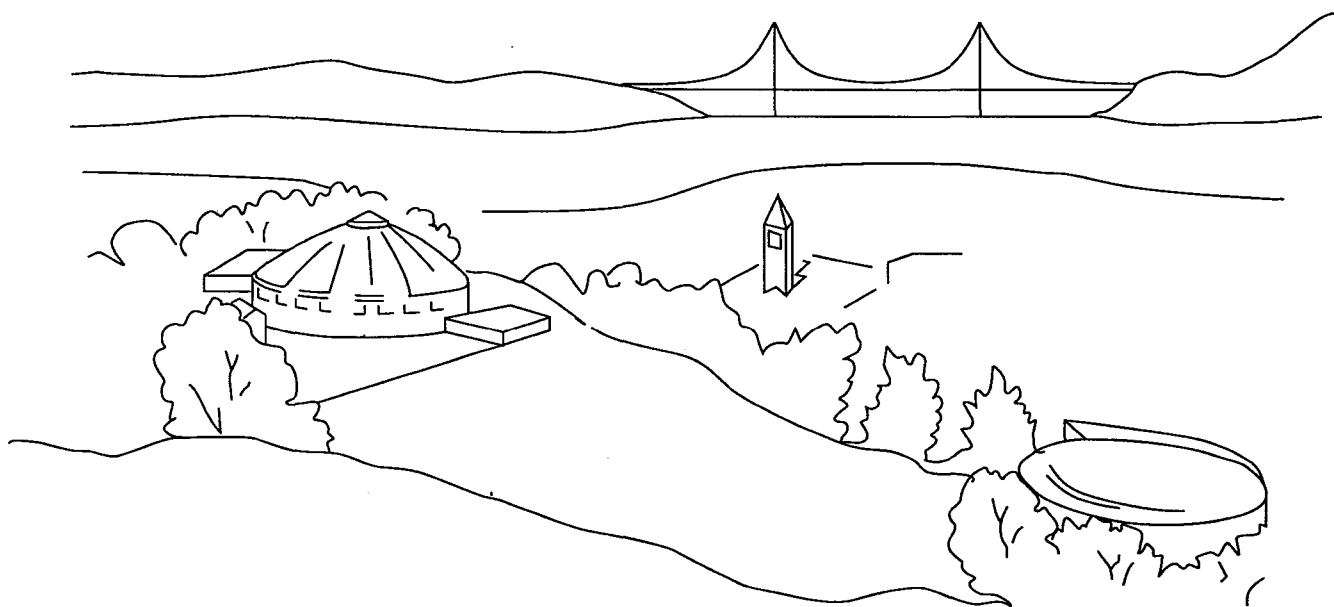
LB COMPUTING NEWSLETTER

***TROFF* TO LaTeX CONVERTER**

GOSIP

MS WINDOWS 3.0

LATEST NEWSLETTER INDEX



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BERKELEY, CALIFORNIA . . . 94720

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Newsletter Closing Date is Monday, July 16, 1990

Address all communications for the Newsletter to login nooz@ux1.lbl.gov
or put in Maggie Morley's Drop Box in the Workstation Group File Server

Editor: Maggie Morley

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UNIX NEWS

SUN FORTRAN 1.3

Dave Cleveland

The latest release of Sun FORTRAN is now on UX1, UX3, and UX5. This is the production Version 1.3 FCS (First Customer Ship).

Sun FORTRAN is an enhanced FORTRAN 77 development system for the Sun workstation. It conforms to the ANSI X3.9-1978 FORTRAN standard, and provides an IEEE standard 754-1985 floating point package.

Sun FORTRAN provides a number of features including recursion and pointers, and many Vax VMS FORTRAN 5.0 extensions, including namelist, do while, structures, records, unions, maps, and variable formats. You can write FORTRAN programs that run with the same source code on both Sun and VMS systems. Note: the VMS FORTRAN source code conversion program, *f77cvt*, that was required for Sun FORTRAN 1.2, is not needed for Version 1.3.

To use Sun FORTRAN 1.3, users should put the directory `/usr/lang` first in the search path in their `.cshrc` files:

```
set path = (/usr/lang ....)
```

Users should also put `/usr/lang/man` in a `MANPATH` in their `.login` files:

```
setenv MANPATH /usr/lang/man:/usr/man
```

(For complete `.cshrc` and `.login` files, users may copy the `/usr/local/DOTcshrc` and `/usr/local/DOTlogin` files, respectively.) After making the above changes, type the UNIX commands:

```
source .cshrc
source .login
```

A manual set for Version 1.3 is available:

1.3 Sun FORTRAN Manual Set
Sun No. 825-1208-02

Call x7008 to order a copy. Cost will be charged against your Computing Services account.

For additional information on FORTRAN 1.3 and on the syntax of the *f77* command, type the Unix manual command:

```
man f77
```

Forward comments and questions to me at x5336 or

Unix or
Software Tools Mail: DHCleveland@lbl.gov
VMS Mail: lbl::DHCleveland

BLSS

Dave Cleveland

BLSS is now available on the Sun systems UX1, UX3, and UX5.

BLSS (pronounced "bliss") is a highly interactive statistical software system which runs on UNIX-based computers and workstations. It provides a wide range of capabilities to a wide range of people: students and computer novices find it easy to learn, so that they can start doing statistics quickly; experienced computer users find it a flexible interface with reliable tools for getting work done efficiently.

A book about BLSS is available:

BLSS: the Berkeley interactive statistical system
by D. Mark Abrahams & Fran Rizzardi
published by W. W. Norton & Company, 1988

Call x7008 to order a copy. Cost will be charged against your Computing Services account.

For further information send electronic mail to:

blss@bach.berkeley.edu

Forward comments and questions regarding our Sun UNIX implementations to me at x5336 or

Unix or
Software Tools Mail: DHCleveland@lbl.gov
VMS Mail: lbl::DHCleveland

THE HELP DESK

NEW VERSION OF TeX & LaTeX ON CSA AND UNIX

Martin Gelbaum

An upgrade of the TeX and LaTeX software for VMS from Northlake Software will be installed on CSA by July 11, if not earlier. The new software will be very similar to the current version; various minor bug fixes and improvements are included. The vendor explained that this version won't need to be changed for quite some time.

The new software will include TeX Version 2.991a. (We have been using TeX Version 2.93a). The new LaTeX version, still 2.09, is dated August 4, 1988. (We have been using LaTeX Version 2.09, revised on January 25, 1988.) BibTeX has already been upgraded (see Pg. 9 of the June 1990 Computing Newsletter).

Users' TeX and LaTeX source files should not have to be revised; the same commands and system-level TeX directories (TEX_INPUTS, TEX_FONTS, etc.) that we use now will still be correct. If you have been using your own logical names for certain TeX system directories, you will probably have to revise them.

The TeX and LaTeX software on the Computer Center Unix machines - UX1/3/5 - has been upgraded to the same version.

Forward comments and questions to me at x4749 or

Unix or

Software Tools Mail: martyg@lbl.gov

VMS Mail: lbl::martyg

TROFF TO LaTeX CONVERTER AVAILABLE ON UNIX & CSA

Martin Gelbaum

Tr2tex, a public-domain program written by Kamal Al-Yahya of Stanford University, is now available on UX1, UX3, UX5, and CSA. "Tr2tex" is in the standard search path on UX1/3/5. On CSA, define a DCL symbol for running *tr2tex* by putting the following command in your login.com file:

```
tr2tex := $sys_utilities:tr2tex
```

The VMS port of the program was done at LBL; some options and improvements were also added here.

Tr2tex converts a *troff* source file to a LaTeX source file. It is intended to do the first pass of the conversion. The user should then finish up the rest of the conversion and customize the converted manuscript to his/her liking. *Tr2tex* can also serve as a tutor for those who want to convert from *troff* to LaTeX.

Usage: convert the *troff* file "paper.ms" into the LaTeX file "paper.tex" as follows:

```
tr2tex -o paper.tex paper.ms
```

Most of the converted document will be in LaTeX but some of it may be in "plain" TeX. It will also use some macros in troffms.sty (a LaTeX style file) or troffman.sty, both now in the standard "style" file directories on UX1/3/5 and CSA. If there is more than one input file, they will all be converted into one LaTeX document.

Tr2tex understands most of the "-ms" and "-man" macros and "eqn" preprocessor symbols. It also understands several plain "troff" commands. *Tr2tex* is NOT too good at translating "tbl" commands into LaTeX. When converting Unix "man" pages, use the "-m" flag. If a *troff* command cannot be converted, the line that contains that command will be commented out.

See the Unix man page "tr2tex" or CSA VMS HELP article "tr2tex" for a list of bugs and other shortcomings. Many of these bugs are harmless. Most of them cause local errors that can be fixed in the converted manuscript. *Tr2tex* can NOT access *troff* registers via the ".nr" command.

MATHEMATICA UPGRADED ON UX5

Martin Gelbaum

On June 5, 1990, a new version of *Mathematica* 1.2 was installed on UX5. Now, BOTH UX1 and UX5 are running the version of *Mathematica* built on November 6, 1989. The new version includes a fix for a major bug in the Together function, which is used by the Simplify function. (This bugfix had already been incorporated in the version of *Mathematica* on UX1, so no change was required to the version on UX1.)

For details, read article 156 of the *Mathematica* "news" group on UX1 and UX3. Use the command

news 156 mathematica

on UX1 or UX3 to read this article. People interested in using *Mathematica* are welcome to read this "news" group, which contains contributions, algorithms, and (sometimes heated) discussions & questions about *Mathematica* bugs.

IMSL LIBRARIES UPDATED ON CSA

Martin Gelbaum

On May 22, the CSA copy of the IMSL Mathematical, Statistical, and Special Function libraries, which are combined into the IMSL library, was updated to correct various bugs. The new version supersedes the old library but users still link with it as before. The HELP article MATH_LIBRARIES, subtopic IMSL, explains about linking and so on. The new version has successfully passed the IMSL Environmental and Installation Assurance Test.

Forward comments and questions to me at x4749 or

Unix or

Software Tools Mail: **martyg@lbl.gov**

VMS Mail: **lbl::martyg**

THE VT1 TRANSPARENCY QUEUE

Bob Rendler

We have set up a queue named **vt1t** (vee-tee-one-tee) to let the Varityper (vt1), our 600 dpi PostScript printer, process transparencies on a regular basis.

Typical print command is

lpr -Pvt1t filename

Although you may send jobs to this queue (vt1t) at any time, they will only be processed every workday morning. The operations staff checks the vt1t queue at 6 AM and if there are jobs queued, waiting to print, transparencies are loaded into the printer and jobs are printed. After those jobs are done, no more transparencies will be printed until 6 AM the next workday.

Forward comments and questions to me at x5629 or

Unix or

Software Tools Mail: **RERendler@lbl.gov**

VMS Mail: **lbl::RERendler**

ICSD TRAINING SCHEDULE

July - September 1990

COMPUTING SERVICES CLASSES

Bldg. 50B, Rm. 1237

The following courses are offered by Computing Services. There is no charge for these classes. To enroll, obtain you supervisor's approval and then contact Pat Bean, x7008.

Introduction to UNIX ‡	July, 9, 11 9 AM - 12 Noon	Intro. to C Programming	July 17, 19, 24, 26 10 AM - Noon
VI Editor ‡	July 10 9 AM - 12 Noon	Electronic Mail: Survey	July 25 10 AM - Noon
Intro. to Text Editing ‡	July 12 9 AM - 10:30 AM		

‡Minimum enrollment of 10 people.

WORKSTATION CLASSES

The following courses are offered by the Workstation Group. There is no charge for these classes. To enroll, obtain your supervisor's approval and then contact Carole Casaretto, x6858.
(Those classes with asterisks (*) prepended are already full.)

IBM-PC: Bldg. 50B, Rm. 1237

Introduction to PC-DOS	July 17, 19 1 - 2:30 PM
	Aug 14, 16 1 - 2:30 PM
Microsoft Word for the PC *	Aug. 14, 16, 21, 23 3 - 4:30 PM
	Sept. 11, 13, 18, 20 3 - 4:30 PM

Macintosh: Bldg. 50B, Rm. 1229

Basic Macintosh	July 11 12-1 PM no sign-up req.
Basic Intro. to FileMaker	July 9, 11 1 - 3 PM
	Aug. 8, 10 1 - 3 PM

Macintosh: Bldg. 50B, Rm. 1229 (cont.)

Beginning MS Word 4.0	July 16, 18, 19 10 - Noon
	Aug. 20, 22, 24 10 - Noon
Intro. to MacDraw II	July 10, 11, 12 10:30 - Noon
	Sept. 11, 12, 13 10:30 - Noon
Beg. Excel Spreadsheet	Aug. 27, 29, 31 9 - 11 AM
	Sept. 24, 26, 28 9 - 11 AM
Introduction to PowerPoint	August, 7, 8 1-2 PM

The Workstation Group also offers noon time classes (no sign-up required) in the following subjects:

Basic Macintosh Class.....	7/11	50B/1229
Microsoft Word Workshops for the Mac.....	7/10, 17, 24	50B/1239
Microsoft Word Workshops for the PC.....	8/7, 14, 21	50B/1239

See Workstation Scene Newsletter Articles for more details on these workshops.

NEWS OF PHYSICS LIBRARIES

Werner Koellner

● PHYSICS UTILITIES

You can access the Physics Utilities, including the CERN Library, the PAW (Physics Analysis Workstation) Library, and the various Physics Utilities HELP Libraries by executing the DCL command

@Physics\$Manager:Setup_Phys

We recommend that you include this line in your Login.Com file.

● CERN LIBRARIES FOR UNIX WORKSTATION & CONVEX MACHINES

You can port the CERN Program Library to the following workstations:

- ✓ IBM RISC-6000 family
- ✓ DEC 3100
- ✓ SUN Sparc
- ✓ Silicon Graphics Iris
- ✓ the CONVEX machine.

An effort to make selected utilities available on the LBL Unix machines is underway. Write to WOKoellner@lbl for info.

● HELP

When you type

Help @Physics_Utilities

you'll see a list of utilities for which help text is available under "Additional information available." You may also type

Help 'subtopic'

where 'subtopic' is one of the utilities listed, to get help directly on a particular utility. A newly added subtopic, **WHAT**, is intended to help you find what specific utilities are available by guiding you from very general topics to more specific areas. Type

Help What

to see what is available under the auspices of the Physics Division.

● APS_LaTeX

Submit articles to the PHYSICAL REVIEW in machine readable LaTeX compuscripts by using the APS "compuscript toolbox." Type

Help Mis_Phys_Aps_Latex

for more information.

● APS_WHATS_NEW

Weekly news capsules, issued by Robert Park, of the American Physical Society, are available in APS_WHATS_NEW. Please type

Help Mis_Phys_Aps_Whats_New

for further information.

● CERN LIBRARY

Object libraries are updated at unpredictable times. Changes are documented in the "Program Library News" section of the CERN Computer Newsletter. Past, current, and sometimes future issues can be found in **Cern\$Inform:PROGLIB.CNLxxx**. Of particular interest are news items regarding the status of obsolete routines. Additional information can be found in various files in **Cern\$Inform**, in **Cern\$CernHlp**, and via online HELP for selected products. In some cases a previous version of an object library is available as **xxxx.OLD**.

The following object libraries and programs have been updated recently.

CMZ	Version 1.32/01
GEANT314	Log.Name: Cern\$Geant_Lib
	Geane Vers. 3.13/01
	Geang Vers. 3.13/05
	Geanh Vers. 3.13/03
	Geant Vers. 3.13/06
	Geanx Vers. 3.14/02
GRAFLIB5	Hplot5, Higz, Gkspack
GRAFLIB5_ATC	Hplot5, Higz_Atc,
	Gkspack_Atc
GRAFLIB5_DI3000	Hplot5, Higz_DI3000,
	Gkspack_Atc
HIGZ	Version 1.10/02
HIGZ_ATC	Version 1.10/02
	LBL Vers. 1.10
HIGZ_DI3000	Version 1.10/02
	LBL Vers. 1.10
KUIP	Version 1.64/01
PACKLIB4	Epio Vers. 1.64
	Ffread Vers. 3.09
	Hbook4 Vers. 4.09/01
	Kapack Vers. 2.13
	Kuip Vers. 1.64/01
	Minuit Vers. 2.03
	Zbook, ZCedex,
	Zebra Vers. 3.64

● CERN_NEWS

Cern News is a facility which allows remote access to News Items (for instance, the latest LEP News), posted by a number of research groups at CERN on either the VAX or IBM machines at CERN.

To see the list of available News Groups, type

Cern_News/INQ

To scan news of the LEP group, type

Cern_News LEP

and follow the instructions. Once in CERN_NEWS, you may simply send the current news item to the default printer, or fetch the file into your default directory.

For additional information, including an important disclaimer, type

Help Cern_News

● COMPUTER PHYSICS COMMUNICATIONS

Computer Physics Communications of Belfast, Northern Ireland, maintains the CPC Program Library, a large collection of Physics-related programs. Indexes of added programs can be found in

Cern\$Inform:Cpc_Lib_mmyy.INDEX.

● GEANT

GEANT, a system of detector description and physics simulation tools, is available as part of the CERN Libraries. A rewritten Sample Program, using ATC_GKS to demonstrate graphics and other capabilities, is now available.

Although the release of Version 3.14 may be up by the time you read this, Version 3.13/06 is the default version. The logical name **Cern\$Geant_Lib** points to the appropriate object library file. The recommended link procedure is **Cern\$Library:Geant.Lnk** using linker options files **GEANTxy.OPT**, where x is either I or B, and y is either <null> or _ATC, depending on the answers to the questions **Geant.Lnk** asks. The graphics interface for Geant is now GKS, but Geant is also available with the DI3000 graphics interface. To link that version, on CSA2 only, use **@Cern\$Library:Geant_Di3000.Lnk**. METAFILE graphics output is available. For additional information, please type

Help Geant

● PAW

At LBL, the program PAW is primarily being maintained in the full GKS version, named **PAW_ATC**, although the mini-GKS version, as well as a DI3000 version, are available. **PAW_ATC** uses the ATC-GKS interface, whereas **PAW_DI3000** uses the Precision-Visuals DI3000 interface, which can be used only on CSA2. Both versions make a large number of output devices available to the user for graphics output. Standard executable programs of **PAW_ATC**, **METAPAW**, **PAW_DI3000**, as well as **PAW**, are available in **PAW\$LIBRARY**. If desired, users may link their own versions by using or modifying the procedures

PAW\$LIBRARY:PAW_ATC.LNK or
PAW_DI3000.LNK or
PAW.LNK.

These procedures use corresponding linker options files, e.g. **PAW_ATC.OPT**. With **PAW_ATC**, graphics output may be directed simultaneously to the screen or to a Metafile for subsequent processing via the program **METAPAW**, and also simultaneously, and selectively, to a PostScript file.

Most recent **PAW_ATC** improvements are documented in files **Cern\$Inform:Paw.News***. The latest of these is **PAW.NEWS1081**. Manuals for **PAW**, including a fancy new User's Manual, are available from the Computer Center Librarian (Bldg. 50B, Rm. 1232B - x7008). Type

Help Paw

for more information.

Forward comments and questions to me at x4398, or

Software Tools Mail

or Unix: **WOKoellner@lbl.gov**

VMS Mail: **lbl::WOKoellner**

NOTES FROM TROUBLE MAIL

Maggie Morley

Following are further examples of typical exchanges from our on-line Unix and VMS mail facilities.

MESSAGE

To use TELLAGRAF, the help (HELP GRAPHICS TELLAGRAF SITE) suggests that I execute ISSCO to get all necessary definitions. However, for my process (on CSA1), ISSCO is defined as

```
sho sym issco
```

ISSCO == "SET DEF _\$1\$DUS109:[ISSCO]"
and therefore doesn't define anything. What is wrong?

RESPONSE

Your command procedure

LBL121:[joeuser.commands]sispe.com contains the troublesome definition:

```
$ ISSCO := SET DEF _$1$DUS109:[ISSCO]
```

This procedure (**lbl121:[joeuser.commands]sispe.com**) is run by your login.com. Erase that line from SISPE.COM, logoff CSA1, log back in again to CSA1, and ISSCO should work as advertised and desired.

MESSAGE

When printing on various printers, I have occasionally selected the wrong point size and consequently receive the horrible "wrapped lines" message. Why not send an initial error message to the operator/user to ask him/her if he wants to delete the job rather than wrap it? I don't like wasting the paper, cpu or my time.

RESPONSE

I suspect you are describing a message returned by IMPRINT when you use a command like

```
imprint -Pap4 -fcourier-bold18 filename
```

(Of course, you may specify such fonts only with PostScript printers.) Anyway, when the file is "translated" into PostScript using the specified font and the resulting lines are too long, the program does report this. If you see such a message, you can then delete the job from the queue after getting back the system prompt. You can use

```
lpq -Pap4
```

to see the job number and then

```
lprm -Pap4 jobnumber
```

to delete the job if printout with "wrapped lines" is useless to you.

MESSAGE

(1) How long does the terminal have to be idle before the killer will snuff out the terminal?

RESPONSE

90 minutes. Warning message is issued after 85 minutes of idle time.

MESSAGE

(2) Does the idle process killer recognize a terminal that is remotely logged into another machine (e.g., as the result of typing SET HOST while logged into CSA) as idle after the proper time? (see (1)).

RESPONSE

If you SET HOST from node X to node Y and are active on Y, then the process on X is not considered idle because its IO counts increase; (its CPU time increases slightly as well).

MESSAGE

Can someone please tell me how to get a machine-readable version of the LBL logo into an overhead? My preferred software is WordPerfect 5.1 for the PC, which can use a variety of graphic input formats including TIFF, encapsulated postscript, etc.

RESPONSE

We have a PostScript logo that [a talented user] created—no guarantees. Bring a disk to the workstation lab for a copy. (The master disk is in "the bin").

I've tried fitfully to scan a logo to a tiff file but have never gotten it to work.

It is in the "to do" file to create something useable for our PC customers.

MESSAGE

Is there a high speed printer, like the Talaris machines, accessible from UX1-5? If so what is it called? If I know the proper name, are the Talaris machines accessible? Thank you,

RESPONSE

You can print to the Talaris printers from Ux1/3/5 because your Unix login name and CSA login name are the same. You would not be able to do so if the login names were different. (This is a VMS restriction for its own accounting) Anyway, use

lpr -Pvms filename

(for standard, landscape, mode output)

lpr -Pport filename

(for "portrait" mode output; equivalent to the VMS command "print/form=port")

MESSAGE

If I link my programs with the HIGZ_ATC package, I would like to know which GKS library I have to use if I want to try the new HIGZ_DECGKS library. Another question: can I link PAW with the same library if there is any advantage to doing that?

RESPONSE

The graphics package DECGKS is the DEC version of GKS, i.e. it is an alternative to ATC-GKS, or some other vendor's version of GKS. On the CSA cluster, DECGKS is not available: ATC was the chosen vendor due to much lower license costs. Use a HIGZ-DECGKS library, and GEANT and PAW linked with that and with DEC-GKS (where it is available); it should work fine. This would be an alternative to using ATC's GKS as the graphics package.

Because DEC-GKS is not available on the CSA cluster, I do not produce or maintain a bona fide DEC-GKS version of HIGZ, GEANT, or PAW. However the newest "sources" (PAM files) are available on CSA, in CERN\$LIBPAMS, and, using PATCHY, anyone could produce the libraries in that "flavor".

MESSAGE

Boy am I frustrated. I finish doing experiments only to find that the system has been upgraded again so that my old programs don't work! I need help with this. I use DISSPLA callable subroutines. I used to call a subroutine SPTEK to set up for the apple Laserwriter II/NTX. What happened to that subroutine? How should I set up for a laserwriter now? Your help is appreciated.

RESPONSE

SPTEK was written locally quite a while ago, and is now obsolete. DISSPLA now includes a PostScript driver, which will generate ps.dat files which can be printed on a LaserWriter. "call sptek" should be replaced with call "dev('postscript..." as shown below. Execute

```
Csa3>helpdis device_drivers postscript
```

```
to see
```

```
CA-DISSPLA
```

```
DEVICE_DRIVERS
```

Postscript

```
Device Name:      LaserWriter, Varityper vt600,
                  QMS ColorScript, etc
Description:      postscript printer
To Nominate:      call dev('postscript_all_general',ierr)
Output File:      ps.dat
To Print:          $ lpr -Pap1 ps.dat
Documentation:     postscpt.intdoc
```

MESSAGE

I have more problems than just being unable to set up for a Laserwriter. Apparently, the new callable subroutines are incompatible with the old ones. Is there an easy way (w/o purchasing another DISSPLA manual, which apparently is only valid for ~3 mo. at a time) to update my subroutines, or to use the old DISSPLA?

RESPONSE

The main problem converting to DISSPLA 11.0 is that DISSPLA now requires Fortran77 character strings and variables - e.g. use 'quoted strings' and character*80 label instead of 3HABC and integer*4 label(20).

The old DISSPLA is no longer available. This was announced in the March newsletter (p.13), in a "news" message, and from the "issco" symbol. Online help is available with Csa3>issco. Execute

```
Csa3> helpdis
```

for more information.

In the past, there had been a lot of confusion when multiple versions of DISSPLA and TELLAGRAF were in use together. The current policy is to settle on the latest stable version of each product - in this case DISSPLA 11.0 and TELLAGRAF 6.1. We expect these versions will not be superseded for quite a while.

MESSAGE

I would like to use crypt on ux5. Right now, the only runnable version is on ux1.

RESPONSE

Sun's U.S. Encryption package has been installed on UX5. Not only is "crypt" available now, but "des" is too; "des" provides a much more secure encryption — read the manual entry for each to compare.

MESSAGE

Up until a few weeks ago we have been linking our Vista programs with the library:

```
sy_graphics:[grinnell]grinnell/olb.
```

But I'm now getting an error message saying that directory is no longer there. Has this directory and library been moved?

RESPONSE

Since we no longer have the Grinnell device and don't expect ever to re-instate it — and since this has been the case for at least 6 months, we decided to rename it to flush out any accesses to it. If your need to link is immediate and if it is too hard to change your program/link procedures, I can rename it back to its previous name. However, we would expect that you would make the necessary changes some time in the not-too-distant future so that we can remove it.

MESSAGE

I would like to have two pages for each plot in Latex, one for the picture and the other for the caption. Is there a not-so-hard way to do that within LaTeX's figure environment? I tried a few things, but it did not honor my page break commands.

RESPONSE

The following produced one blank page followed by a page that was blank except for the caption, which was half-way down the page:

```
\begin{figure}
\vspace*{\textheight}
\end{figure}
\begin{figure}
\protect\caption{Cross-section of the STM head.
(See Fig.~{\protect\ref{fig:stm-photo}})
Some more stuff.}
\end{figure}
```

LaTeX ensures that the {figure}s are output in the order in which they are defined in the source text. So, with the text above, if the first {figure} is so big that it fills a whole page alone, as will probably be the case with the \vspace*, the next figure, which contains only the caption, will appear on the next page. (LaTeX does not impose that there is exactly one \caption per {figure}; you may have zero, one or several ones. Only when a \caption occurs is the figure counter increased.) I hope this helps.

(Many thanks to two helpful readers/users for forwarding the following good advice . . . Ed)

MESSAGE

The correct response to the user who had lost files using Eve when he had an exceeded disk quota (Pg. 6 of the [June 1990] newsletter) should have been — After getting the "cannot write file" message

- spawn out of the editor
- clear out some disk space
- logout (of the spawned process)
- exit from the editor normally
- (and) the file will be written.

MESSAGE

When the user got the message indicating that the file could not be written due to lack of quota he/she should have spawned out of EVE, cleaned up the directory/account of junk, then logged out of the spawned process, and written or exited the editor.

Alternately, one can **control-y** out of the editor, spawn, cleanup, logout then do a **CONTINUE** out to reactivate the process suspended by the **control-y**, then finish up as before.

Also, if the journal file is showing up in the user's primary account (rather than on some other scratch device) he/she may not be making the best use of the available disk quota. There is an LSE logical name which one can use to direct that the journal file(s) be created on a different device (scratch).

These are in response to a user problem on Pg. 6 of the June 1990 COMPUTING NEWSLETTER.

*If you want wider distribution of your comments or questions, we encourage you to send them to **trouble** since it is seen by a wide range of people, including Divisional management. To use trouble, enter the VMS, Software Tools, or Unix mail system and send mail to the address*

trouble <cr>

We won't, of course, include any user's name in the exchanges. . . . Ed

LBLnet NEWS

Bob Fink & Sig Rogers

LBLnet Phase II Building Schedule Update

The LBLnet Phase II building attachment schedule is shown below. Building 72, the National Center for Electron Microscopy (NCEM), is now on LBLnet, thus closing out the primary work of the LBLnet Phase II Project.

Bldg. 1 (Donner)	operational	Routed LBLnet
Bldg. 2 (AML)	operational	Routed LBLnet
Bldg. 3 (Calvin)	operational	Bridged LBLnet
Bldg. 5	operational	Routed LBLnet
Bldg. 7	operational	Bridged LBLnet
Bldg. 7	operational	Routed LBLnet
Bldg. 16	operational	Routed LBLnet
Bldg. 25	operational	Routed LBLnet
Bldg. 29	operational	Bridged LBLnet
Bldg. 62	operational	Routed LBLnet
Bldg. 66 (SSCL)	operational	Routed LBLnet
Bldg. 69	operational	Bridged LBLnet
Bldg. 72 (NCEM)	operational	Routed LBLnet
Bldg. 74	operational	Routed LBLnet
Bldg. 76	operational	Bridged LBLnet
Bldg. 77	operational	Routed LBLnet
Bldg. 80	operational	Bridged LBLnet
Bldg. 83	operational	Routed LBLnet
BARRNet (UCB)	operational	UCB, BARRNet & NSFNet access
ESNET	operational	MFE & several DOE Decnet sites

Routed LBLnet means Decnet and Internet (tcp/ip) service. XNS, LAVc and other protocols are only supported on the Bridged LBLnet unless their use is entirely local to a subnet of the Routed LBLnet.

Stanley Hall on LBLnet

Work on connecting Stanley Hall to LBLnet continues. It is now anticipated that this work will be completed sometime in July. When complete, Stanley will be part of the 131.243.32 subnet along with Donner and Calvin Labs.

FDDI Bridged Backbone Field Test

As noted last month, the FDDI Bridged Backbone Field Test continues successfully. It will soon be determined how much of this equipment will stay on the air as a permanent part of LBLnet. When this is decided, redundant bridging equipment will be removed as it is not LBLnet policy to pay for redundant circuits. It is LBLnet policy to facilitate as short-as-possible mean-time-to-repair in trouble situations.

Network Traffic Data

50LAN Statistics

Statistics for a 15 day interval, 29 May - 13 June 1990:

Packet rates averaged over interval:

Packets/Sec	424.1 pps
Collision rate	1.9 %
Broadcasts/Sec.	1.3 pps
MultiCasts/Sec	27.1 pps

Packet size as percentage of total packets:

64-127 byte packets	53.8 %
128-255 byte packets	15.0 %
256-511 byte packets	0.7 %
512-1023 byte packets	8.4 %
1024-1518 byte packets	22.8 %

Packet Type as percentage of total packets:

LAVC	53.8 %
IP	37.3 %
DNA	7.3 %
LAT	.2 %
ARP	.3 %
XNS	.2 %

GOSIP and ISO OSI Status Report

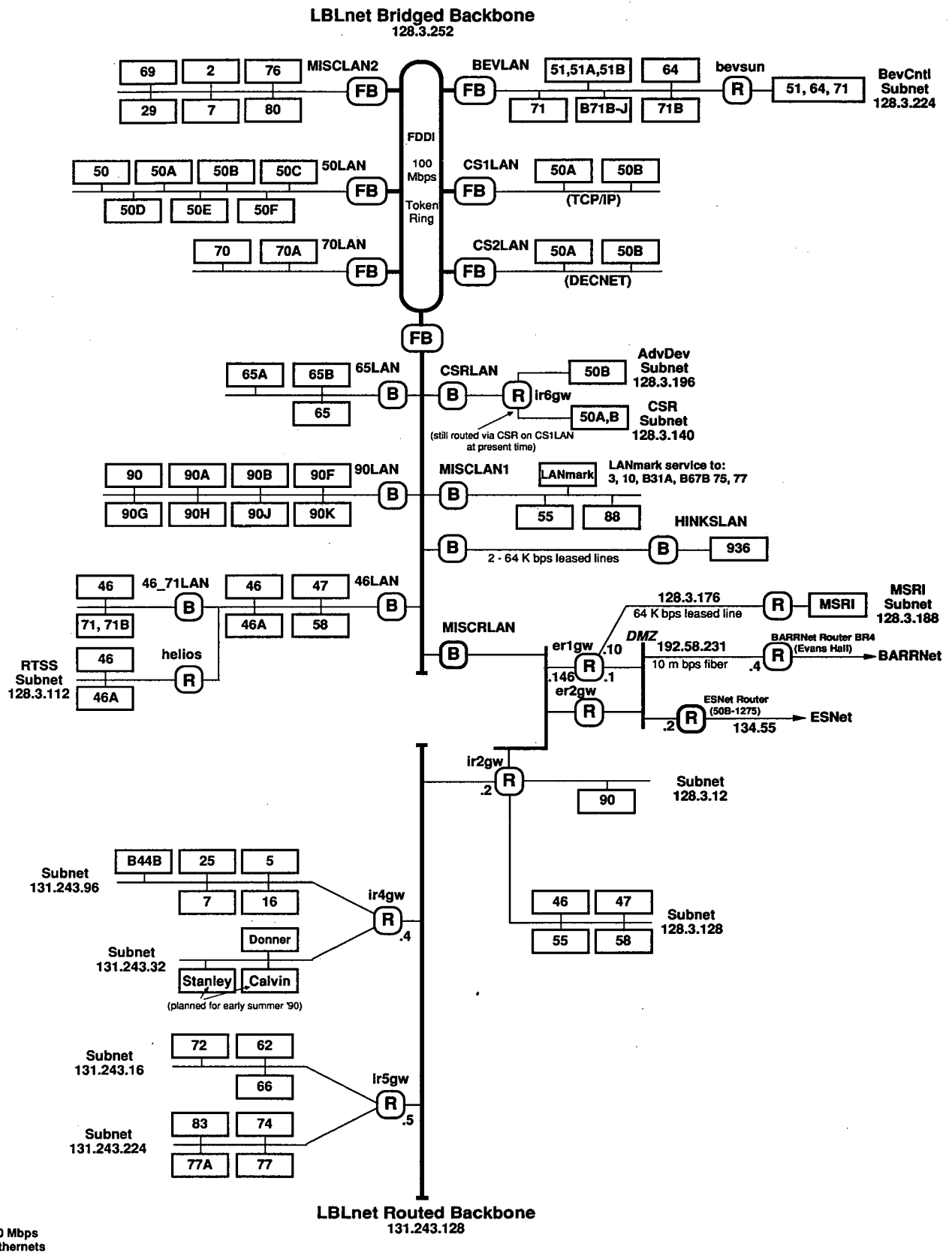
GOSIP stands for the U.S. Government Open Systems Interconnection Profile. It is a Federal Information Processing Standard (FIPS) that specifies a Federal Government procurement profile for open systems based on ISO OSI networking standards. The OSI (Open Systems Interconnection) standards specify networks that are very similar to Internet tcp/ip networks, though totally different in implementation.

The purpose of GOSIP is to assist the standardization of networks, for vendors and users, such that interoperation of systems of different manufacture is facilitated.

In August of this year GOSIP Version 1.0 comes into force with a requirement that systems needing mail services and file transfer services must specify GOSIP as part of their procurement. The DOE has been busy for the last 18 months preparing policy to implement GOSIP's requirements. LBL has been very active in these efforts.

As the policies affecting the Laboratory are finalized, more information will be provided here. For now, however, be assured that the Laboratory will generally be able to be compliant with the new policies without disruption to Laboratory programs.

DOE's implementation of GOSIP is still under development; if you have questions feel free to call Bob Fink, x5692.



THE WORKSTATION SCENE



[27.6.1]

TRADING POST

Items advertised here are for Laboratory use only and must be purchased with a valid account number. If you have items you wish to advertise in the Trading Post or if a Contact name does not appear with an ad below, call Bruce Burkhardt, x6858.

1. **For Sale:** HP 2686A LaserJet Printer, w/Courier Font Cartridge A, it's an older classic - but works fine, \$850.
2. **For Sale:** Apple Tape Backup 40SC unit, w/SCSI cable & data cassettes, it's slow, but reliable, \$350.
3. **For Sale:** Apple Universal Monitor Stand, for the color or small mono monitors, \$49.
4. **For Sale:** PLI "Turbo Floppy" 1.4 Mbyte external floppy drive, read/write 1.4 Mbyte floppies only, includes Mac SCSI cable, \$199.
5. **For Sale:** IBM XT personal computer, 10 MByte Hard Disk, & CGA Color Monitor, \$549. Contact: Richard LaPierre, x4692.
6. **For Sale:** IBM XT personal computer, 10 MByte Hard Disk & Mono Monitor, \$549. Contact: Richard LaPierre, x4692.
7. **For Sale:** PageMaker 4.0 for the Macintosh; unopened-unused, \$250. Contact: Robert Jahnigen, x5579.
8. **For Sale:** Sun Microsystems Software: *Sun Paint-Write-Draw v1.1*, 1/4" tape, for Sun workstations, \$199.
9. **For Sale:** DaynaTALK network Interface box for LocalTalk, 3 ea, brand new, Half Price! \$70 ea.
10. **Trade:** Video Cards: The WKSG Lab would like to trade a Sigma Designs LaserView 19-inch Monitor MacII video card for a MacSE card. Anyone interested? Call x6858.



[27.6.2]

MICROSOFT DEMO: NEW PC PRODUCTS

Representatives from MicroSoft Corp. will be at the Laboratory to give a demonstration of two of their latest MS-DOS products: *Windows 3.0* and *PowerPoint 2.0*.

Time: First Session - 9 to 10:15 AM and
Second Session - 11 AM to 12:15 PM
Thursday, July 26, 1990

Place: Bldg. 50B, Rm. 4205
(The Conference Room)

If you've tried *Windows 3.0* and have some questions, this will be a fine time to talk to the experts. Both of



The Workstation Group Laboratory, home of several Workstation members as well as the *Workstation Evaluation Library* is located in Bldg. 50B, Rm. 2231. The hours are:

Mon	8 AM - 1 PM 3 PM - 5 PM
Tues - Fri	8 AM - 5 PM

You can also reach us from the Computing Division's Unix machines or the VMS cluster by sending mail to:

Unix or Software Tools	WKSG@lbl.gov
VMS Mail.	lbl::WKSG

We're here to help; please call us at x6858.

these applications will be available at the Workstation Lab. *Windows 3.0* is \$59.60; the cost of *PowerPoint 2.0* is unavailable at this time.



[27.6.3]

WINDOWS 3.0 ARRIVES!

... Huzzahs from WKSG member Nancy Travis

After all the glorious press releases and promises, it was nice to find out that Microsoft's *Windows 3.0* is just as hot as they said it would be.

I had tried *Windows 286* and *386* before and disliked both the user interface and the memory conflicts which these programs introduced. *Windows 3.0*, however, is an entirely new and very polished interface. It's so nice, in fact, that this is the first product review that I have written on my PC instead of the good old Macintosh SE/30. Suddenly my 386 PS/2 has a wealth of USEFUL memory, dazzling graphics and an easy (though still a little unfamiliar) interface.

It's fast and friendly and works well in my local area network environment. I can, however, report some problems with mysterious unknown drive apparitions; my biggest complaint is that due to the extreme popularity of this product (100,000 copies were shipped in two weeks), Microsoft Technical Support is now virtually inaccessible. A recording will advise you that there is an

average 30 minute wait (long distance!). Alternatively, Microsoft has added a computer-guided support line which allows you to hear recordings of the most popular questions ("If you have a 286, press 2. If you have a 386, press 3, etc.") In response to my network question, the computer referred me to the Network Chapter in the Manual! The manual, however, is clear and concise, and the Workstation Group will be happy to help you with any problems you encounter.

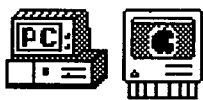
The ideal platform for *Windows* 3.0 is a 386, 386sx or 486, with a VGA monitor and 2 to 4 Megabytes of memory. The minimum platform is a 286 with an EGA monitor and 640 KBytes.

Good looks aside, the main reason to buy this program is to be able to make use of high memory, so it stands to reason that the product adds more value to a machine with more than 640 KBytes. With a 386 machine you get virtual memory as well. *Windows* works with both extended and expanded memory, but extended is preferable.

Users who are torn between OS/2 and *Windows* 3.0 should note that *Windows* is a subset of OS/2 and that the operating systems will retain compatibility. OS/2 is the better choice for server machines or mission-critical applications, but for most users, *Windows* 3.0 will be the Graphical User Interface of choice.

Word for *Windows* and *Excel* are both available from the Workstation Group for \$94.50 each; performance is improved with *Windows* 3.0. *Excel* users must get an upgrade (free) to work with *Windows* 3.0. Bring two formatted high density diskettes to the Workstation Lab. You can also pick up a list of applications which take advantage of the new *Windows* environment.

Windows 3.0 is available at the Workstation Lab for \$59.60, a considerable discount (retail price is \$150.) We are not handling upgrades from *Windows* 286 or 386 because the cost (\$50) is not substantially lower than the new product.



[27.6.4]

MAC & IBM PC TRAINING AT LBL

How would you like to have a Mac SE with a hard disk and 2.5 Mbytes of memory, a LaserPrinter, and popular Mac packages at your disposal much of the time? We'd like to remind you that the Macintosh systems in the ICSD's Mac Training Room (Bldg. 50B, Rm. 1229) are available to all employees when classes on the Mac are not in session. A schedule of classes is posted there. (It is also available for group reservations). Classes offered include:

- *Word* for the Mac
- *MacDraw II*
- *PowerPoint*
- *FileMaker*
- *Excel*
- Basic Mac classes

The Workstation Group also conducts classes to help users get started (and get better) on the IBM PC. PC classes are held in ICSD's Terminal Room (Bldg. 50B, Rm. 1237). (It is also available for group reservations). Schedule is posted there. Classes offered include

- Microsoft's *PC Word*
- Introduction to DOS
- File Transfer and terminal emulation using *Kermit*
- Using the IBM-PC as a terminal for electronic mail
- *TotalWord*

The IBM PC-ATs as well as the VT 240 terminals in the room are available to all LBL employees when there are no classes in session.

Note well: The Training Rooms are locked when there is no one on duty in the I/O area. Contact Pat Bean (x7008) for a card key to gain access during these times. Carole Casaretto (x6858) can provide you with a detailed classroom schedule.

[27.6.5]



LUNCHTIME WORKSHOPS FOR THE MACINTOSH AND FOR THE PC.

Here is the schedule of the Microsoft *Word* for the Mac and PC, and Basic Mac Classes, coming up for July and August. No sign-up is required.

Basic Mac Classes 12-1 PM - 50B/1229

07/11/90 and 08/15/90

Microsoft Word for the Mac Workshops in July 12-1 PM - 50B/1237

07/10/90Styles

07/17/90Tables

07/24/90Merge Print & Mailing Labels

Microsoft Word for the PC Workshops in August 12-1 PM - 50B/1237

08/07/90Styles

08/14/90Glossaries and Macros

08/21/90Merge Print



[27.6.6]

MICROSOFT POWERPOINT 2.01
vs ALDUS PERSUASION 2.0.

... WKSG member John Flambard prefers a Friendly Persuasion

While both of these Presentation Graphics applications are good, I feel Aldus *Persuasion* has more things going for it than does *PowerPoint*. Both give you templates that are already formatted and can be readily modified to your specific needs. Saved as a "template" they can be used over and over as a basis for future presentations, retaining the established formatted style. This makes it easy to mix and match existing slides with new ones.

Let's break down the two applications into specific features:

COLOR

PowerPoint has the slight edge in the choice and application of colors. You select "schemes" and "accent" colors supplied by *PowerPoint*, add a "background", apply special effects, and you're off and running. *Persuasion* has all the above features but they are a little harder to establish than in *PowerPoint*. In *Persuasion*, you have to pick all the colors you want and enter them in a "scheme". They are not selected for you.

OUTLINE

PowerPoint doesn't have this feature. You can change the order of the slides, but you cannot make textual changes to them. *Persuasion* has an excellent outliner, and slides can be created and/or modified from either the outline or the slide view. All information is automatically updated from one view to another. The levels of text in a slide can be modified from either view.

DRAWING

Persuasion has it all over *PowerPoint* in the drawing arena. The *Persuasion* toolbox has 8 tools; *PowerPoint* has only 4.

Persuasion has a "Group/Ungroup" command not found in *PowerPoint*. It also has

- alignment capability
- more patterns
- lines of various thickness
- gradient shading to objects
- zoom in/out capability
- a "snap-to-grid" capability
- "Rotate/Flip" commands.

TEXT

PowerPoint handles text simply. The "text" tool will write lines of type, and the "word processing" tool allows you to set tabs and indents (this is the only way to get at "show text ruler" and "line spacing"). *Persuasion*, however, gives you an "indent/tab" ruler every

time you click the "text" tool, a very nice feature for text wraps and tab stops. Line spacing is more adjustable, and "supers" and "subs" are available in *Persuasion* with command keys. You can control 6 levels of bullets and symbols in Zapf dingbats. Text formats can be named, edited, and modified easily in *Persuasion*, not just picked by font and size as in *PowerPoint*.

One area in which *Persuasion* shines is in the use of "Data Sheets". This application has a built-in spreadsheet with 100 x 100 cells. You can import or insert data in any of the cells, thereby enabling "Chart". This feature gives you a choice of 9 types of graphs + Table to put directly onto your slides. It has

- 3D features
- axes and grid control
- legend and symbol control.

All this is plotted automatically on your slides in two different formats (with and without accompanying text). The "Master" feature lets you plot organization charts automatically from your outline, control text or graphs for any one slide, and alter the background on any individual slide without affecting the rest of your presentation.

PowerPoint is quick and easy to learn and is the simplest for word slides. *Persuasion*, on the other hand, has that nice outliner and is superior for graphics and for putting artwork on your slides.

PowerPoint imports PICT, PICT II, EPS, *MacDraw*, *Illustrator*; it exports to Genigraphics and Laserwriters. *Persuasion* imports PICT, PICT II, EPS, ascii, WKS; it exports to Autographix and LaserWriters.

RATING:

<i>PowerPoint</i>	5.5
<i>Persuasion</i>	8.0

Forward comments and questions to me at x4036.



[27.6.7]

QMS COLORSCRIPT 100 (QP2)

...from WKSG member John Flambard.

If you're going to send a print file to the QMS Colorscript printer, and you're in the Chooser looking for it, you may have to wait for its icon to appear. It will be near the bottom of the list on 'lbl' net. The printer pops in and out, so persevere, it will show up!

Note well: this machine has a restricted printing area. Before sending a file make sure the total length of the image does not exceed 9 inches (or 8.75", to be on the safe side). If using *PowerPoint*, do not use the whole area

when "vugraph" is checked in "page setup". When creating the vugraph, set the margins about 1/2" - or more - on both sides.¹



[27.6.8]

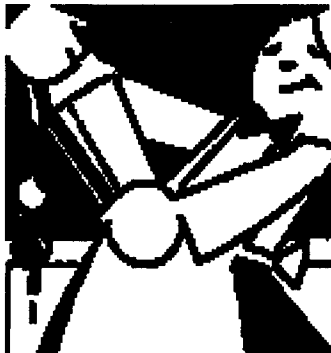
HYPERCARD CORNER

... by HyperFan Bruce Burkhart

BMUG Winter/Spring '90 Newsletter

The *Berkeley Macintosh User's Group* Newsletter is published twice a year. Join BMUG for a one-year membership of \$40, and receive two Newsletters and two disks full of assorted applications, utilities, and games. Amongst the seventy-five odd articles (covering some 360 pages), you will surely find something interesting, amusing and yes! - even inspiring! Of particular interest in this issue is the clip art, (theme is "the 1920s and 30s"). Major headings in this issue include

- **BMUG Resources** - A list of BMUG's preferences in disk drives, printers, monitors & graphics cards, accelerators, modems, networking, wordprocessors, graphics & page layout programs, utilities and more. This section is one of the more important, as it represents the collected opinions of very experienced Mac users, resident experts, power users, and trusted cohorts of BMUG.
- **Using the Mac** - Over 20 articles, some technical, some humorous, and some both. All are informative — particularly, "Apple SuperDrive Floppy Weirdness."
- **HyperCard & Multimedia** - "What is it?" This and seven more articles on animation, visualization, multimedia documents. Then there are some "Resourceful Stacks in HyperCard."
- **Networking & Communications** - "Macintosh Connectivity" will give you the big picture and the nitty gritty details for all those components you've never understood before.
- **CAD/CAM** - several technical articles.
- **DeskTop Publishing** - A dozen very different approaches to DTP.



- **Apple & the Computer Industry** - Some insights that cover the "big picture" with you, your Mac and the real world.
- **Commentary** - Funny stuff! "How to be a Computer Nerd and Still Be Cool," for instance.

The Newsletter finishes with four Disk Index listings of the complete BMUG library. If you would like to look over this issue, stop by the Workstation Lab (Bldg. 50B, Rm. 2231) and be my guest. Membership forms for BMUG are also available.

ScriptEdit - A Commentary

Rather than a standard mini review, let's go for a quickie overview. The Workstation Lab recently received a complimentary copy of *ScriptEdit*, by Somak Software, Inc. Thank you, Somak. It's nicely written documentation. The intro begins, "*ScriptEdit* is a fast, intuitive Desk Accessory (DA) that makes it easy to create, modify, and print HyperTalk scripts, the instructions that control your HyperCard stacks." And there's much, much more. This product is for HyperCard power users who have lots of long complex scripts needing constant modification and tuning. This DA is not for the scripting novice, the added level of complexity would be a burden. Learning the scripting language is mind-boggling enough for most new HyperCard stack developers.



Unfortunately, *ScriptEdit* may be too little too late. *HyperCard 2.0* will be released later this summer, with a new script editor and symbolic debugger. Will these new *HyperCard 2.0* capabilities "overlap" a few, many, or all the features in *ScriptEdit*? For better or worse, we'll have to wait and see. For now, *ScriptEdit* does merit a "look see" by those of you out there who need some extensions in the script editing environment. Check it out of the Workstation Evaluation Library.

Flash-It - it's perfect and it's free!

Frequently, we're asked, "how can I print a copy of my Mac screen?" Our reply usually goes something like



"Well, there's *Capture*, *SnapShot*, *Camera*, *Frame-Grabber*, and a few more. They all have similar features that vary slightly, and they cost money." Finally, there's a breakthrough! The disk sent with the latest **BMUG Newsletter** included **Flash-It!** a real gem. It's freeware, and has all the capabilities of the most expensive and feature laden products mentioned above.

Written by Nobu Toge at Stanford, *Flash-It* is a Control Panel Device (CDEV) which defines three (3) hot-keys to capture the screen image, save it to the Clipboard or to a disk file, and print it. If you've not invested in a screen

¹ The ColorScript has limits to the size of an image placed on the page because it needs to grip the page securely, maintaining exact registration, as it rolls the paper back and forth for up to four passes.

capture utility yet, try *Flash-It*. It's in the Utility Folder on the WKSG Server, or stop by the Workstation Lab for a copy.

Moving Fonts into a Stack...

After you've made a few stacks or possibly in your first one, you might like to use a non-standard font (*I did. I got into a bit of trouble, but more on that later*). By non-standard, I mean a font not included with the normal AppleLaser font distribution disk from Apple Computer. Which leads to another good hint "Resourceful Stacks in HyperCard" by Jim O'Connor in the latest **BMUG Newsletter**. He warns of the dangers of moving a font into a stack using *ResCopy* or *ResEdit*. (something I wasn't aware of). From the article:

"Don't use *ResCopy* or *ResEdit*, [to move your fonts] as fonts are broken up into multiple resources that need to be moved and renamed together. Use *Font/DA Mover*, the old tried and true tool for moving fonts. You need to trick *Font/DA Mover* to list stacks among the files it can open.



ResCopy

- hold down the Option key when clicking on the Open button on either side of the main dialog,
- open the file with the font,
- then open the stack you want to add it to, and
- copy the font the normal way.

When you then return to *HyperCard* and select the font for a field or use the text painting tool, the new font will be selectable, even if it isn't installed in the System."



ResEdit

My first experience with a non-standard font started out well enough, until I tried to print a card with the new font. The results were terrible. It turns out there are several other possible issues involved; these may be covered at a later time. For now, follow Mr. O'Connor's advice; experiment on your own.

MultiMedia Review...

The MUG News Service publishes **MultiMedia Review™**, a quarterly magazine that covers the issues of the integration of graphics, sound, video and text into the Mac environment. It's available both in hardcopy (\$50/yr) or HyperCard format (\$35/yr). The first issue contains feature articles, video tips, resources, and other information. If you would like to check out the "stack version", it's in the Utility Folder on the WKSG Server, or stop by the Workstation Lab for a copy. If you're interested in subscribing, call 518-374-1088.



MultiMedia Review

Quick Compactor...

Mark Alper has come up with a very comprehensive set of options for compacting a HyperCard stack. Specifically, you can "compact" one stack, multiple stacks, an entire folder of stacks, a volume (disk) of stacks, all mounted volumes and finally a user defined list of stacks. Probably more options than you'll ever need; however, it's neat! *Quick Compactor 2.0* is a \$10 shareware program. If you would like to check it out, try the Utilities Folder on the WKSG Server.



Quick Compacter

INDEX OF COMPUTING NEWSLETTER TITLES AND KEYWORDS

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Class Schedule, Computer	10/89-12/89	26/10-12	x
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ICS Notes	4/90	27/4	8
<i>Logging in through ICS, to the Cluster; ICS and Dialup Modems; Use x7930</i>			
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INDEX, Computing Newsletter Titles & Keywords - JULY 1989 to JUN 1990	7/90	27/7	X
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LBL Special Interest Group on Software Engineering	4/89	26/4	10
Names & Numbers to Know	ALL	all	x
Quick Procedure for Handling Data Security Incidents	10/89	26/10	9
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(News About) BibTeX on CSA	9/89	26/9	10
BibTeX Updated	6/90	27/6	9
Color PostScript Printer Available	3/90	27/3	9
<i>QMS ColorScript 100 - Model 30</i>			

TITLES/KEYWORDS

MO/YR

VOL/NO

PG

GRAPHICS, PRINTING & TYPESETTING NEWS (Continued)

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Cyrillic TeX Fonts at LBL	7/89	26/7	11
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<i>DECstation 3100, Sun SPARCstation 1, VAXstation 3100, Sun 3/50, GraphOn X Display terminal, Two Tektronix 4208 terminals, Tektronix 4693D Thermal color printer, Mac II, Tektronix 4104 graphics terminal, Grinnell Frame Buffer</i>			
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<i>On CSA Cluster; On a PC or Compatible; On a Mac; PC access to 3COM 3+ network</i>			
(Software) Lending Library (New Additions)	8/89	26/8	21
(Software) Lending Library (New Additions)	10/89	26/10	23
(Software) Lending Library (New Additions)	11/89	26/11	23
LOCKOUT Version 2.0	9/89	26/9	26
(DOS LBL) Logo for PostScript Printers	3/90	27/3	22
LOTUS 1-2-3 Upgrades: 2 or 3	9/89	26/9	21
Lunchtime Workshops for the Mac and the PC	3/90	27/3	20
Lunchtime Workshops for the Mac and the PC	4/90	27/4	19
Lunchtime Workshops for the Mac and the PC	5/90	27/5	22
Lunchtime Workshops for the Mac and the PC	6/90	27/6	25
MacIIci/MacWrite Problem (<i>SpellChecker</i>)	2/90	27/2	20
MacIIci and Portable Compatibility	2/90	27/2	20
(New) Mac (Lunch hour) Classes/Forums	1/90	27/1	16
(New) Mac (Lunch hour) Classes/Forums	2/90	27/1	14
(Battle of) Mac DBMS's: Fox and 4D Square Off	10/89	26/10	20
(The) Mac Doctor	4/90	27/4	20
<i>What to do before calling for help</i>			
Mac Graphics Software	12/89	26/12	11
Mac Hard Disk Problems	3/90	27/3	26
(New Apple Products: the) Macintosh IIfx	4/90	27/4	21
<i>Also New Video Cards, System 6.0.5, Compatibility Issues, Apple's Extended Warranty</i>			
MacLINK Plus: File Transfer for the Mac and IBM	9/89	26/9	22
MacWORLD Exposition April 11, 12, 13	3/90	27/3	25
MAIL*LINK for Mac-to-VMS/Unix	7/89	7/89	22

TITLES/KEYWORDS	MO/YR	VOL/NO	PG
WORKSTATION NEWS (Continued)			
(New to the Lending Library — for) Macs	10/89	26/10	19
<i>DocuComp, Word Wrapper, Nisus, StatView II</i>			
MacFlow - Flowcharting on the Mac	6/90	27/6	27
Macintosh Engineering/Scientific Forum Jan. 26	1/90	27/1	10
Macintosh Portable	11/89	26/11	22
The Macintosh Product Line (<i>Macintosh Family Positioning</i>)	11/89	26/11	21
Macintosh SE — Dare to Install!!	8/88	25/8	21
MacSchedule — Schedule Development Software	5/90	27/5	23
Mac Self Help (What to do before calling the doctor)	8/89	26/8	17
MacWrite II 1.1 Upgrade	4/90	27/4	22
MAPLE for the Sun, Mac, PCs	4/90	27/4	18
Medical Articles via the MELVYL Catalog	2/90	27/2	17
(PC) Memory: What's the Difference	9/89	26/9	19
<i>Conventional, Extended, Expanded</i>			
(Get More) Memory	4/90	27/4	20
(Need More) Memory?	8/89	26/8	16
Microsoft Word 4.0 Workshops on the Macintosh	1/90	27/1	15
Microsoft Word 4.0 Day - Jan. 24	1/89	26/1	21
(Monster Color) Monitor for your Presentations	8/89	26/8	15
(Connecting to MELVYL or GLADIS with an) MS-DOS PC using MS-Kermit	2/90	27/2	18
<i>(Ask Dr. Micro)</i>			
(A Clean) Mouse is a Happy Mouse	5/90	27/5	25
NCSA FTP — Recent Changes	7/89	26/7	23
(Cut and Paste with) NCSA Telnet using <i>hostsync</i>	10/89	26/10	17
(Notes on) NCSA Telnet from Macintosh	10/89	26/10	17
(New) Mac Stuff in the WKSG Lending Library	7/89	26/7	22
<i>Igor V.1.0, RefMaker V.1.02</i>			
(New) Mac Stuff in the WKSG Lending Library	11/89	26/11	21
<i>MediSearch, SYSTAT/SYSGRAPH 3.2</i>			
(3COM Macintosh) Network Connectivity	11/89	26/11	20
On-line Access to Newsletter Articles	2/90	27/2	19
(What's in a) PAINT	1/90	27/1	11
<i>Microsoft Paintbrush 4.0; PC Paintbrush IV</i>			
(Important Note for) PC Kermit Users on ICS	10/89	26/10	16
PC/NFS Upgrade to 3.0.1	7/89	26/7	20
(Two New) PC Products from Ashton-Tate	3/90	27/3	22
<i>Applause II; Control Room</i>			
(New) PC Stuff in the WKSG Lending Library	7/89	26/7	20
<i>Derive, Formula/One, RightWriter, Correct Grammar, Downscale</i>			
(New) PC Stuff in the WKSG Lending Library	8/89	26/8	15
<i>Xerox Graph</i>			
(New) PC Stuff in the WKSG Lending Library	12/89	26/12	24
<i>Solo, dBASE STATS</i>			
(New) PC Utilities	1/90	27/1	12
<i>PCBrowse; hDc Windows Express; hDc Windows Manager; PROMPT!; Simple Win</i>			
Performance/Progress Review (P/PR) forms for Microsoft Word 4.0	6/90	27/6	26
<i>Also for MacWrite & MacDraw</i>			
P/PR Workshop June 11	6/90	27/6	26
(Macintosh) Portable	11/89	26/11	22
The POSITION Command in Word 4 for the Mac	11/89	26/11	22
(New to the Lending Library — for) PCs	10/89	26/10	16
EXP			

TITLES/KEYWORDS	MO/YR	VOL/NO	PG
WORKSTATION NEWS (Continued)			
(New to the Lending Library — for) PCs <i>Q+E, mTEX</i>	11/89	26/11	19
(Excel for) <i>Presentation Manager</i>	11/89	26/11	20
<i>TechMail</i> : E-mail on the Mac	6/90	27/6	10
PC Technical Word Processing in three Parts	3/90	27/3	24
<i>Windows Word; WordPerfect 5.1</i>			
(Think Backup. Think) Prevention. Think Recovery	3/90	27/3	22
<i>Fastback Plus; Mace Utilities Version 1990</i>			
Printing PC Files on the Cluster	1/89	26/1	23
<i>Public Folder</i> , Here's	2/90	27/2	19
QMS - Little Print Hint	6/90	27/6	27
<i>QuickLetter</i> Revisited	8/89	26/8	18
<i>QuickMail</i> Licensing	4/90	27/4	22
(New Driver for) Radius Monitors	9/89	26/9	25
<i>ReadNews</i> for Macintosh Computers	2/90	27/2	20
What's New in the) Reference Database Management Systems	9/89	26/9	20
<i>Bookends, Refmenu, Reference Manager, Reference Update, REF-11, Pro-Cite, Biblio-Links, Pro-Search</i>			
(Note on) <i>RefMenu: Bibliographic Database for PCs</i>	11/89	26/11	20
(Think Backup. Think Prevention. Think) Recovery	3/90	27/3	22
<i>Fastback Plus; Mace Utilities Version 1990</i>			
SAS/PC for PCs	4/90	27/4	19
Scholar's Workstation Update	10/89	26/10	18
<i>MacWrite, MacPaint, MacDraw, MacProject</i>			
Season's Readings (New Books in the WKSG Library)	1/90	27/1	19
<i>The Apple Guide to Desktop Publishing - Summer 1989 - Desktop Media Collection: Publishing</i>			
<i>Apple Engineering/Scientific Solutions Guide - Winter 1989/90</i>			
<i>The World of Apple Desktop Media (Video)</i>			
<i>The Micrografx Software Catalog and ClipArt Pictorial Guide (DOS Desktop Publishing)</i>			
Scientific Plotting and Statistics for Data Analysis on the PC	6/90	27/6	23
<i>SigmaPlot 4.0; InStat 1.0; MicroStat II; Graftool 2.1</i>			
Screen Help for PostScript Programmers (<i>PS Tutor</i>)	3/90	27/3	22
SE/30 Large Screen Cards	9/89	26/9	25
<i>Radius, Sigma, Nutmeg</i>			
SHORTCUT and HANDOFF	4/90	27/4	21
Sigma Designs - Used Monitor Special	3/90	27/3	21
(WKSG's) Software Evaluation Library	6/90	27/6	32
Software Lending Library (New Additions)	8/89	26/8	21
Software Lending Library (New Additions)	10/89	26/10	23
Software Lending Library (New Additions)	11/89	26/11	23
Software Lending Library (Complete)	12/89	26/12	27
(Apple) Software Update Program	10/89	26/10	21
STATGRAPHICS			
(Adventures with a) Sun Sparc Station 1	11/89	26/11	17
(Adventures with a) Sun Sparc Station 1 — Chapter 2	12/89	26/12	24
(<i>Word 4.0</i> : 1M +) <i>Table</i> = Bad News	9/89	26/9	24
System Errors DA	10/89	26/10	21
Table in <i>Word</i> for the Mac	6/90	27/6	28
<i>Sort, Outline</i>			
<i>Take A Letter</i>	9/89	26/9	25
(Apple) Tape Backup 40SC Unit	9/89	26/9	26
(American Physical Society's Guidelines for Submitting) TeX or troff articles	8/89	26/8	16
<i>TechMail</i> : Yet Another Mail System?	6/90	27/6	29
TeX Graphics Program for the Mac (<i>LaGrafx</i>)	1/90	27/1	15

TITLES/KEYWORDS	MO/YR	VOL/NO	PG
WORKSTATION NEWS (Continued)			
<i>Theorist V. 1.1; Mathematica For the Rest of Us</i>	1/90	27/1	15
3COM Administrators' Users Group	3/90	27/3	21
3COM Macintosh Network Connectivity	11/89	26/11	20
TIMBUKTU 3.1 Upgrade	6/90	27/6	27
Timely Tip: Fall Back (Mac Users)	11/89	26/11	20
Timely Tip: Fall Back (PC Users)	11/89	26/11	18
Timely Tip: Spring Ahead (Mac Users)	4/90	27/4	19
Timely Tip: Spring Ahead (PC Users)	4/90	27/4	17
(A Quick First Look at) TOPS 3 for MACs and PCs	6/90	27/6	25
TOPS 3.0 Upgrade	3/90	27/3	21
TOPS 3.0 Upgrade	5/90	27/5	24
Trading Post for PCs, MACs, etc	7/89-6/90	26/x-27/x	x
(American Physical Society's Guidelines for Submitting TeX or troff articles	8/89	26/8	16
Trouble Shooting the Macintosh (<i>New Help Stack</i>)	2/90	27/2	21
(Claris) Updates and Upgrades	8/89	26/8	17
User Groups and Bulletin Boards	1/90	27/1	12
Vi on Your Mac (<i>Stevie</i>)	11/89	26/11	21
(New) Viruses Revisited	2/90	27/2	20
<i>WDEF; Disinfectant; GateKeeper Aid; Eradicator Em</i>			
Virus on PCs	9/89	26/9	18
<i>Jerusalem, Israeli, Friday the 13th, Black Box</i>			
VersaTerm Security	10/89	26/10	18
VersaTerm Upgrades	8/89	26/8	15
VersaTerm Upgrade	3/90	27/3	21
(New) Viruses — New Cures	1/90	27/1	16
<i>Jude; WDEF — Disinfectant; Gatekeeper Aid</i>			
(About Disks for) Windows Word	4/90	27/4	19
(Preliminary Words on Microsoft) Windows Word for the PC	2/90	27/2	15
WINGZ Demo Nov. 16	11/89	26/11	16
Word 5.0 Drivers for New HP Cartridges	3/90	27/3	22
(Microsoft) Word 4.0 Workshops on the Macintosh	11/89	26/11	21
(More Microsoft)Word 4.0 Workshops on the Macintosh	12/89	26/12	26
Microsoft Word 4.0 Workshops on the Macintosh	1/90	27/1	15
Microsoft Word 4.0 Workshops on the Macintosh	2/90	27/2	15
(More on) Word 4.0 for the Mac	8/89	26/8	19
(What We Know and Don't Know — so far — about) Word 4.0 on the Mac	7/89	26/7	21
Word 4.0's Commands Command	9/89	26/9	23
Word 4.0: 1M + Table = Bad News	9/89	26/9	24
What We Know so far about) Word 5.0 on the PC	8/89	26/8	14
(PC) Word 5: Knowledge Upgrade	11/89	26/112	19
Word Wrapper	1/90	27/1	17
(Mac) Word Hint	10/89	26/10	22
Workstation Group Electronic Mail	ALL	All	
X WINDOW Display Server on Macintosh	3/90	27/3	9
X WINDOWS Seminar/Demo Nov. 21	10/89	26/10	16
X WINDOWS Seminar/Demo Dec. 14	12/89	26/12	23
X WINDOWS Seminar/Demo January 18 (Solbourne)	1/90	27/1	10
Educational Discount for) Zenith Systems	10/89	26/10	16
<i>Lynch, Marks & Associates, MinisPort, SupersPort</i>			

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UNIX (DHCleveland)5336 50F 110
Distributed Printing (RERendler)5629 50F 129
System Manager: Roger Cochran (RJCochran)5565 50F 127

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HELP DESK5981 50B 1215
Math Libraries4749 50F 114
Library/Document Sales7008 50B 1232A
Opening a New Account (PSBean)7008 50B 1232A
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Software Evaluation and Acquisition5568 50F 144

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Nancy Johnston (NEJohnston)5093 50F 145

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Terminal Repair
Paul G Murray (PGMurray)5354 50B 2259
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Group Leader: Richard LaPierre (RLLaPierre)4692 50B 2245
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UNIX.....JASmith@lbl.gov
Software Tools.....JASmith@lbl.gov

NETWORK CONTACT INFORMATION

LBLnet New Installations & Trouble Calls
Ted Sopher (TGSopher)4559, 5354 50B - 2266
DECnet Administration
William Jaquith (WDJaquith)6966 50F - 146
IBM PC & Mac Network Administration
William Jaquith (WDJaquith)4388 50B - 2231C
Nancy Travis (NJTravis)7690 50B - 2231B
Distributed Printing/Kinetics FastPath
administration and requests
Bob Rendler (RERendler)5629 50F - 129
AppleTalk Support5354 50F - 2259

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LBLnet comments or non-critical trouble reportslblnet@lbl.gov
Internet administrationip-request@lbl
LBL Postmaster for Lab-wide mailpostmaster@lbl.gov
Network Advisory Group (NAG)nag@csam.lbl.gov

ICS

ICS Access Names

[VAX 64xx's (Generic)CSA]

VAX 6420 (VMS)CSA1
VAX 6420 (VMS)CSA2
VAX 6410 (VMS)CSA3

SUN-3/280 (UNIX 1)UX1
SUN-3/180 (UNIX 3)UX3
SUN-4/390 (UNIX 5)UX5
SUN-3/180 (ISD)ISD

Dial-up Access Numbers for ICS

Incoming Baud Rate	Connect Baud Rate	Number
3/12/2400 BPS.....	3/12/2400 BPS.....	486-7930
3/12/2400 BPS.....	9600 BPS.....	486-7900
9600 BPS.....	9600 BPS.....	486-7996

Local TYMNET Access Numbers for ICS

	1200 BPS	2400 BPS
Oakland	430-2900	633-1896
Walnut Creek/Concord	935-0370	935-1507
San Francisco	974-1300	543-0691
Santa Clara	408-432-3430	432-8618
Palo Alto	415-366-1092	361-8701
San Jose	408-432-3430	432-8618
Fremont	490-7366	490-7366
Davis	916-758-3551	
Burlingame	415-588-3043	
Vallejo	707-644-1192	
Antioch	754-8222	
Pleasanton	462-2101	

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