

Explore Cyberspace through World Wide Web



Network tourists will welcome the advent of World Wide Web (WWW or W3), a browsing and searching system that helps you explore the universe of information available on the Internet. Unlike Gopher, which is a hierarchy of directories and files, WWW is a hypertext-based system of links and pointers that weave a web, allowing the browser to jump quickly from strand to strand.

To visualize the difference between a hierarchical system and a hypertext-based system, *The Internet Passport* (available in the Documents Room, CC205) suggests you compare the situation of a bird in a tree, free to fly

from branch to branch, with that of an ant, whose only option is to climb from branch to branch in a path dictated by the tree's geometry. Hypertext lets you fly.

For instance, if you used WWW's movie browser to search for "The Piano," you would find several reviews, as well as links to director Jane Campion and actors Holly Hunter, Harvey Keitel, and Sam Neill. If you chose to explore information on Jane Campion, you'd

find a list of other movies she's directed, which in turn would offer links to other movies, other actors, and so on.

A variety of browsers are available to access WWW, some with the ability to bring you sound, images, and even movies. The National Center for Supercomputing Applications (NCSA) has developed a collection of WWW browsers known as *Mosaic* for Macs, Windows PCs, and X terminals. With some additional software, these *Mosaic* clients support all the multimedia bells and whistles. Another option is a simple text-based browser called *Lynx*, now available on both OREGON and DARKWING. *Lynx* provides Internet travelers with the network of information and all the links, but no multimedia features.

What's out there? Everything you've found with Gopher—and more. WWW offers seamless connections to more familiar Internet tools like telnet, Gopher, WAIS, and ftp, and can even be used as a front end to electronic forms or USEnet news. You can listen to Metallica, catch Janet Reno on Internet Talk Radio, view exhibits of world-class art, watch weather satellite movies, or read a speech by Al Gore. Closer to home, you can look at the UO campus map and listen to the Duck fight song.

If you'd like to start browsing, here's some basic information to get you started:

UNIX and VMS - DARKWING and OREGON users can begin exploring WWW simply by typing *lynx* at their system prompt and following onscreen directions (on OREGON, you must first enable use of the "unsupported" software library).

Help Ease Modem Pool Traffic Jams!

If you get busy signals dialing the Computing Center's modem pool, you're not alone. Despite doubling the number of modems in the last year, we find that our resources are fully utilized once again.

To increase the efficiency of campus modem use, Network Services has implemented a time-out for idle jobs. Modem users who are logged in through our cisco terminal servers (346-5975 or 346-2150) will be automatically disconnected if their connection is idle for more than one hour.

Please help us maximize our limited resources:

- don't use the modems unless you need them
- don't stay logged on longer than necessary
- try to schedule your modem use for less busy times

The lightest modem traffic is from 2 am through 8 am, while evenings and weekends are the most congested.



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Macintosh - The Mac *Mosaic* client requires a networked Macintosh running System 7, with at least 4MB of memory (8MB is recommended) and a hard disk. It and essential "helper" programs are available in the CC Public Domain Library, in the Network Software folder.

Windows PC - The Windows *Mosaic* client requires a PC running Microsoft *Windows* with at least 4 MB of memory. Recommended configuration is a 486 with SuperVGA video and at least 8 MB of RAM. In addition, the system must have *LAN WorkPlace* and Novell *WINSOCK.DLL* installed. The PC client and helper programs are available in the PC Public Domain Library on Zeus.

For help with accessing and using WWW, contact Network Services (e-mail: nethelp@oregon; telephone: 346-4395).

Computer Training Available for UO Departments

Most people on campus are aware of the free two-hour workshops the Computing Center offers each term for faculty, staff, and students. But did you know that the Center staff also offers free workshops and in-depth classes to UO departments who request them?

University Computing is currently exploring options for authenticating dial-in users, and should have a system operating by the end of spring term. The new system will allow only verifiable student, faculty, and staff members to use the Computing Center's modem pools. Restricting dial-in access to members of the UO community will

- improve overall security on UOnet, ensuring that only legitimate users can access UO resources
- provide an audit trail for tracking and investigating misuse of resources
- allow direct access to Internet resources via modem

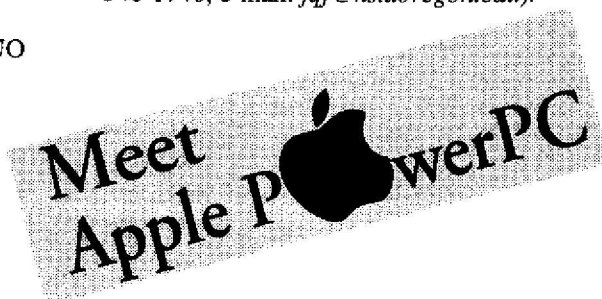
Direct Internet access is a significant step toward providing full network citizenship to dial-in users. For example, under the new system, Macintosh ARA users will be able to run *TurboGopher* from their Macs at home to connect to off-campus resources. Because of the provisions

Departments may request training for groups of ten or more people. A class, workshop, or demonstration can be arranged either onsite at the department itself or at an existing computer lab. Arrangements are contingent upon the availability of Center staff and lab facilities.

Interested departments may contact Ray Arkin (phone: 346-1798; e-mail: arkin@oregon) for more information.

governing the UO's membership in NorthWestNet, Internet access can be provided only to UO students, faculty, and staff.

Further details on the new authentication system will be published in the next issue of *Computing News*. In the meantime, if you have questions or concerns, contact JQ Johnson (phone: 346-1746; e-mail: jjq@ns.uoregon.edu).



Apple is unveiling its new PowerPC technology, *Apple PowerPC*, at a grand introductory celebration in Portland next month. Everyone is invited, so interested faculty, staff and students, take note:

Where? Portland Marriott Hotel
1401 SW Front Avenue
Portland 97201

When? March 14, 1994

What time? 10:00 am

For more information, call 206-889-7956.

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Want to get copies of White House documents via the Internet? Here's how:

First, send an e-mail request to publications@whitehouse.gov

For the text of your message, type simply, **Send info**, and instructions will be sent to you automatically. You'll then be able to search for and receive a list of documents via e-mail, as outlined in the instructions. Once you've made your selection, the White House publications server will mail the information you've requested within a matter of minutes. (*Note*: there is a limit of only one automated response per day.)

VAX & DARKWING NEWS

DARKWING has been undergoing numerous changes in recent months, and more are on the way. Here are the highlights, including information about new software installations, upgrades, and scheduled service interruptions:

DARKWING Down March 21-27

Mark your calendars! DARKWING will be unavailable during the week of March 21-27 while Computing Center staff perform the major operating system, hardware, and user software upgrades described below.

Solaris 2.3 Upgrade

While it's a merge of AT&T system V, Release 4, and SunOS, the new Solaris operating system (2.3) is still UNIX. Unlike its predecessor, SunOS 4.1.3, Solaris takes full advantage of DARKWING's multiple processors. It should also more readily accommodate increased concurrent usage, as limits on the number of users who may access DARKWING via Telnet have been eliminated.

The equivalents to some commands will change, but on the whole Solaris 2.3 utilizes many of the same commands as its predecessor.

Software developers should note that the new system is *not* binary backward compatible. This means that you'll need to recompile your programs before running them on the new system.

New Commercial Software

Along with the Solaris 2.3 upgrade, we're installing new versions of the commercial software currently running

on DARKWING (such as SAS, SPSS, MINITAB, and NU/TPU). There may be minor differences in these new versions, and we will be doing our best to iron out problems as they arise. If you experience any problems after March 27, please notify Joe St Sauver (e-mail: joe@oregon).

Public Domain Software

The staff has been working for months to recompile much of the public domain software now found on DARKWING. It may not be possible or practical to move everything that currently exists on DARKWING to the new system, but as much as possible will be salvaged. If something is missing or malfunctioning after the upgrade, please notify Joe St Sauver (joe@oregon), Bob Jones (bj@oregon), or Jon Neher (jneher@oregon), and they will try to correct the problem if possible.

Print Spooling Through DARKWING

Those of you who have been spooling print jobs through DARKWING to several AppleTalk LaserWriter printers on campus will still be able to do so after the upgrade. However, the CAP version we're currently running on Solaris 2.x does *not* support BANNER pages. Those who need to spool print jobs to AppleTalk LaserWriters during the March 21-27 down time must change their `/etc/printcap` entry so that all printers that point to DARKWING point to `duckmail.uoregon.edu` instead. You'll find all the remotely spooled printers defined on `duckmail.uoregon.edu`.

Campus Sun System Managers: Plan Ahead!

Those of you who run Sun systems of your own should begin planning to upgrade to Solaris 2.3 sometime in the next year. Once the Center's transition to Solaris 2.3 is complete and the system is running smoothly (probably by August, 1994), we'll be ready to help you upgrade your Sun machine to Solaris 2.3.

Some Software Previews

After the transition to Solaris, look for the following new software installations:

- **S-PLUS™ Version 3.2**

S-PLUS 3.2 is StatSci's enhanced version of S. The new version offers a flexible programming environment for exploring and analyzing data. Some features are basic data analysis and statistics, time series, survival analysis, mathematical computing, and interfaces with FORTRAN and C programs. If you use S-PLUS from an X-based terminal or computer, you can also do two- and three-dimensional plotting, interactive graphics, and a number of sophisticated data visualization approaches.

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• Interleaf 6 for Motif

This latest version of Interleaf has been optimized to run under X with the Motif window manager. Interleaf is a complete graphical publishing workspace with advanced text editing and formatting, table creation, and graphics utilities.

Looking for BMDP or EQS?

In the last issue of *Computing News*, we reported that BMDP and EQS would move to OREGON "after DARKWING's upgrade to Solaris 2.3." Because that upgrade is still pending,

BQS and EQS continue to run on DARKWING.

We may reevaluate the location of BMDP and EQS when DARKWING moves to Solaris, but for the time being, both packages remain available on DARKWING only.

Get ... the ... Fax!

Need to know the latest features of *WordPerfect 6.0* for Windows? Want help setting up your modem for AutoAnswer on a single phone line? How about learning to get a LaserJet II to print from a Macintosh?

In the past, you may have tried to get answers to questions like these by calling vendor technical support staff, only to be frustrated by busy signals. Fortunately, there *are* alternative ways of getting through: vendor Fax, network bulletin boards (BBS), and Internet services.

To take advantage of Fax services, you need only have a touch-tone phone and access to a Fax machine. Or, if you have a modem, you can dial in to a bulletin board and download documents, drivers, or utilities directly to your desktop. Those with network access may obtain information from Internet services.

Here's a list of some of the more popular vendor Fax, BBS, and Internet services, listed alphabetically by corporation:

Adobe	Internet access via anonymous FTP	<i>ftp.adobe.com</i>
Claris	24-hour-turnaround Fax tech support	408-987-7447
Hewlett-Packard	HP FIRST (FaxBack service)	800-333-1917
	HP BBS* (for 486 PCs and NetServers)	408-553-3500
	Internet access via anonymous FTP	<i>ftp-boi.external.hp.com</i>
Microsoft	Microsoft Fast Tips (FaxBack service)	800-936-4200
	Download service (BBS*)	206-936-6735
	Internet access via anonymous FTP	<i>ftp.microsoft.com</i>
Supra	FaxBack service	503-967-0072
	Supra BBS*	503-967-2444
WordPerfect	InfoShare Fax service	800-228-9960
	Download Drivers/Macros (BBS*)	801-225-4414

*All BBS services use standard ANSI terminal emulation, and connect at 14,400 bps and slower, using 8 data bits, 1 stop bit, and no parity (8NI)

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Newsletter Editor: Joyce Winslow
(*juwins@oregon.uoregon.edu*)
Editorial Advisor: Dave Ulrich
(*du@oregon.uoregon.edu*)

You may reprint articles from *Computing News*, provided you credit the source.

For more information concerning these services, contact the Micro-computer Consulting and Services office in Room 202A Computing Center (e-mail: *microhelp@oregon*; phone: 346-4412). The office is open Monday through Friday from 9 am to 5 pm.

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