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The Pros and Cons of On- vs. Off-Campus Network Access

*a guest editorial
by Greg Bothun,
Chair of the
Educational
Technology
Committee*

The \$50-per-term educational technology resource fee provides you, the UO student, with full network access through your computing account on GLADSTONE. Network access may be obtained either from a networked computer or terminal on campus or via modem from your home computer. However, before you get overly enthusiastic about the prospects of unlimited network connectivity and net surfing on your home computer, I'd like to present the practical advantages and limitations of these two types of access. And, I'd like to point out that, for nearly all purposes, on-campus access is far more practical than off-campus.

GET YOUR GLADSTONE INFORMATION PACKETS!

The Computing Center's complete collection of GLADSTONE handouts is now available for purchase in the Study Guides section of the University Bookstore. The packet, "Getting Started with GLADSTONE," is shelved under the title "STUDY GDE GLADSTONE" at the Bookstore, and costs less than \$1.00. It includes

- How to Get a Computing Account
- Ways of Connecting to UOnet
- Dialing in to the UO
- Using the Internet from GLADSTONE
- BASIC UNIX FOR GLADSTONE USERS
- Using *Tin* to Read USENET News on GLADSTONE
- Using *Pine* for E-Mail on GLADSTONE
- Using *Lynx* to Browse the World Wide Web on GLADSTONE
- Creating a World Wide Web Home Page from GLADSTONE

Individual copies of the handouts are also available in racks at the Help Desk (south entryway) and in the Documents Room (205).

On-Campus Access: The Pros

Between the various student microcomputer labs and the facilities in the Knight and Science libraries, there are approximately 300 networked machines on campus. These machines are connected to the campus network backbone, which currently has a bandwidth of 1.25 megabytes per second. Let's say one of your professors has stored a one-megabyte data file you need for the class on a campus computer. With on-campus access, you can copy the file to the machine you're on in seconds.

All networked machines on campus also provide Internet access. Our current connection to the Internet is about 3 times slower than the speed of UOnet (the campus network). In addition, at any given time, an individual user surfing the net with *Netscape* (or a similar World Wide Web browser) has access to only about 10% of the network bandwidth that they can use for file transfers. This means that if you want to fetch an image or file that is, say, one megabyte in size from a remote site on the Internet, the transfer time will be about 30 times slower, or close to 30 seconds.

Off-Campus Access: The Cons

UOnet currently supports about 330 modems for remote access, with some 20,000 potential users of this pool. If we wanted to provide modem capacity that would allow each of the 20,000 users an hour of access time sometime during each 24-hour period, we would need at least 833 modems. Present plans call for an eventual expansion of the modem pool to a maximum of about 400. Clearly, we will never really have enough modem capacity to completely satisfy the

- continued on page 7

UO departments...

...are eligible for a 3% discount on products purchased through the Microcomputer Purchase Program if their order totals at least \$20,000 retail. To qualify for the discount, orders may include both hardware and software, but must be billed to a single index code. Contact the Microcomputer Support Center (phone: 346-4402; e-mail: mpp@oregon.uoregon.edu) for details.

More Modems!

Nearly 200 new modems have been added to the UOnet modem pool over the summer months, bringing the total number of available modems to 331. The table below presents the type and number of modems currently available, protocols supported, and the phone numbers to access UOnet:

Modem Type	Number	Protocols	Dial
v.32 (up to 9600 bps)	12	↑ Terminal emulation, <i>SLIP</i> , <i>PPP</i> , <i>IP</i>	346-2150
v.32bis (14,400 bps)	63		346-5975
v.34 (28,800 bps)	32		346-3565
v.34 (28,800 bps)	192	↓	346-6520
v.34 (28,800 bps)	32	all of the above, plus <i>ARA</i> , <i>IPX</i> , and <i>NETBEUI</i>	346-1586



If you're an Internet traveler and could use a few guideposts to Computing Center resources, here are some World Wide Web sites to get you started:

Campus microcomputer lab locations -

<http://darkwing.uoregon.edu/~mcshml/wheretowork.html>

Computing Center facilities and services -

<http://darkwing.uoregon.edu/~cchome/welcome/welcome.html>

Computing Center handouts and newsletter -

<http://darkwing.uoregon.edu/~cchome/documentation/documentation.html>

Microcomputer Purchase Program -

<http://mpp.uoregon.edu>

Workshop schedules -

<http://darkwing.uoregon.edu/~cchome/workshops/workshops.html>

For a good beginning list of other Web sites, see the handout, "Some World Wide Web URLs," available in the Computing Center Documents Room (205).

Which Software Should I Use?

If you're unsure which communications software you should use, the chart below offers some guidelines. Basically, those with older Macs or PCs running earlier operating systems, or those who have less than 4MB of RAM or are operating with a slower modem should use a simple terminal emulation program, like *Zterm* or *Kermit*. Those on newer platforms with more than 4MB of RAM and faster modems should use a more sophisticated "remote-access" software package, like *InterPPP* or *Trumpet Winsock*, that provides full access to Internet and World Wide Web resources.

Machine/System	Memory	Modem	Software	Dial
Macintosh/System 7.0+	4MB ¹ and up	14,400+ bps	<i>InterPPP</i> ²	346-6520
Mac/System 6.n or older	under 4MB RAM	300-9600 bps	<i>Zterm</i>	346-5975
PC/Windows 95	8MB and up	14,400+ bps	<i>Win 95</i> (built-in) ³	346-6520
PC/Windows 3.1	4MB ¹ and up	14,400+ bps	<i>Trumpet Winsock</i> ²	346-6520
PC/DOS	under 4MB RAM	300-9600 bps	<i>Kermit</i>	346-5975

Notes:

¹ 8MB of RAM is required to run *Netscape*

² *InterPPP*, *Trumpet Winsock*, and other remote access software are preconfigured with dial-in modem numbers.

³ See the handout, "Remote Access Using Windows 95," available in the Documents Room (205 Computing Center)

InterPPP, *Zterm*, *Trumpet Winsock*, and *Kermit* may all be copied from the Computing Center's public domain servers, CC Public Domain and ZEUS. (Note that all terminal emulation and remote access services are available from all dial-in numbers. The numbers listed in the "Dial" column above are the ones we recommend you try first.)

Time Limit. To ensure that everyone has equal access to UOnet resources, there is a time limit on dial-in connections. Anyone who exceeds this limit is automatically disconnected. The current time limit is two hours per session.

Questions? If you need help with remote access, contact Microcomputer Services' consulting desk (Room 202A Computing Center; phone: 346-4412; e-mail: microhelp@oregon). The consulting office is open weekdays from 9 am to 5 pm.

FALL WORKSHOPS

The Internet Curriculum...

Each term, the UO Library offers workshops on a variety of Internet topics. These free workshops are offered to UO faculty, staff, and students on a first-come, first-served, basis. *No preregistration is required.* All courses listed below are presented by Library faculty. **Workshops will be held in the Knight Library's Electronic Classroom (Room 144) unless otherwise indicated (ITC*).** For more information, call 346-1935, or browse <http://libweb.uoregon.edu/uo/libhome/instruct/internet.htm> Requests for accommodation related to disability need to be made to 346-1960 one week in advance of the workshop.

Workshops	Day/Date	Time	Presenter(s)
Introductory Workshops			
<i>Introduction to the Internet</i>	Wed Oct 4	2pm - 3:30pm	
	Thu Oct 5	2pm - 3:30pm	
	Fri Oct 6	2pm - 3:30pm	
	Mon Oct 9	2pm - 3:30pm	
	Tues Oct 10	10:30am - noon	
	Thu Oct 12	4pm - 5:30pm	
	Wed Oct 18	10:30am - noon	
	Thu Oct 19	1pm - 2:30pm	
	Fri Oct 20	2pm - 3:30pm	
	Tues Oct 24	6pm - 7:30pm	
	Wed Oct 25	4pm - 5:30pm	
	Tues Oct 31	3pm - 4:30pm	
	Thu Nov 2	1pm - 2:30pm	
	Thu Nov 9	3:30pm - 5pm	
	Wed Nov 15	6pm - 7:30pm	
	Mon Nov 20	2pm - 3:30pm	
	<i>Intro to USENET Discussion Groups</i>	Mon Oct 23	2pm - 3:30pm
Thu Nov 16		3pm - 4:30pm	Klassen
<i>World Wide Web/Netscape</i>	Wed Oct 4	4pm - 5:30pm	
	Thu Oct 5	4pm - 5:30pm	
	Mon Oct 9	4pm - 5:30pm	
	Fri Oct 13	2pm - 3:30pm	
	Tues Oct 17	10am - 11:30am	
	Thu Oct 19	3pm - 4:30pm	
	Wed Oct 25	6pm - 7:30pm	
	Mon Oct 30	2pm - 3:30pm	
	Thu Nov 2	3pm - 4:30pm	
	Fri Nov 10	10am - 11:30am	
	Tues Nov 14	6pm - 7:30pm	
Tues Nov 21	noon - 1:30pm		
<i>Introduction to Web Publishing</i> (Prerequisites: familiarity with a graphical Web browser; an account on OREGON, DARKWING, or GLADSTONE; no previous Web publishing experience)	for PC users		
	Thu Oct 5	10:30am - 12:30pm	
	Wed Oct 18	4pm - 6pm	
	Tues Oct 31	1pm - 3pm	
	Fri Nov 17	2pm - 4pm	
	for Mac users (ITC*)		
	Wed Oct 11	10:30am - 12:30pm	
	Thu Oct 26	4pm - 6pm	
	Mon Nov 6	1pm - 3pm	
	Mon Nov 20	1pm - 3pm	

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*ITC = Information Technology Center, on the second floor of the Knight Library.

FALL WORKSHOPS

Workshops	Day/Date	Time	Presenter(s)
Introductory Workshops (continued)			
<i>Introduction to Scanning: Creating and Moving Digitized Images</i> (Requires some familiarity with the Web and FTP)			
(ITC* classroom)	Thu Oct 19	3pm - 4:30pm	Paynter
(ITC* classroom)	Fri Nov 3	2pm - 3:30pm	Paynter
Using the Quicktake digital camera and Ofoto scanning software			
Science Library	Thu Oct 5	3pm - 4pm	Klassen
	Thu Nov 2	3pm - 4pm	Klassen
Intermediate Web Publishing			
<i>Using and Debugging HTML</i>			
for PC users	Wed Oct 25	11am - noon	Johnson
for Mac users (ITC*)	Thu Oct 26	1pm - 2pm	Johnson
<i>HTML Editors and Converters</i>			
for PC users	Thu Nov 9	11am - noon	Johnson
for Mac users (ITC*)	Thu Nov 9	1pm - 2pm	Johnson
<i>Images and Multimedia on Web Pages</i>			
for PC users	Thu Nov 16	11am - noon	Johnson
for Mac users (ITC*)	Wed Nov 15	1pm - 2pm	Johnson
<i>Forms and CGI Scripts</i>			
for PC users	Wed Nov 29	11am - noon	Johnson
for Mac users (ITC*)	Thu Nov 30	1pm - 2pm	Johnson
Subject Resources on the World Wide Web			
<i>Art Information</i>			
	Mon Oct 16	2pm - 3:30pm	Klos and Esau
	Thu Oct 26	2pm - 3:30pm	Klos and Sundt
<i>Environmental Design Information</i>			
	Tues Oct 17	5pm - 6:30pm	Klos and Esau
	Thu Oct 19	11am - 12:30pm	Klos and Esau
<i>Geographic Resources</i>			
	Mon Oct 23	7pm - 8:30pm	Stark
	Tues Oct 24	3pm - 4:30pm	Stark
<i>Government Documents</i>			
	Tue Nov 7	10:30am - noon	Stave
<i>How to Read Chinese on the Internet</i>			
	Tues Oct 10	3:30pm - 5pm	Yi
<i>Health Sciences Resources</i>			
	Wed Oct 11	3pm - 4:30pm	Klassen
	Tues Nov 7	3:30pm - 5pm	Klassen
<i>Music Resources</i> (for Mac users, ITC*)			
	Tues Oct 24	7pm - 9pm	Bennett
	Thu Nov 16	1pm - 2:30pm	Bennett
<i>Sociology/Psychology Resources</i>			
for PC users	Thu Nov 2	10am - 11:30am	Yi
for Mac users, (ITC*)	Mon Nov 6	3pm - 4:30pm	Yi

4 *ITC = Information Technology Center, on the second floor of the Knight Library.

FALL WORKSHOPS

Computing Center Microcomputer Workshops...

Each term, University Computing offers short introductory workshops on a variety of computing topics. These noncredit sessions are open free of charge to UO faculty, staff, and students. This term's schedule is outlined below. For a brief course description, pick up a flyer from the Microcomputer Support Center's consulting desk in Room 202A.

Preregistration is required for all courses. To preregister or obtain more information, call 346-4412.

Workshops	Day/Date	Time	Room
<i>Introduction to Macintosh</i>	Wed Oct 11	10am - noon	Klamath Centris Lab - B13
<i>Introduction to MS Word (Mac)</i>	Mon Oct 16	10am - noon	Klamath Centris Lab - B13
<i>Introduction to Excel (Mac)</i>	Wed Oct 18	10am - noon	Klamath Centris Lab - B13
<i>Introduction to Windows 3.1</i>	Tues Oct 10	10am - noon	Klamath 486 Lab - B13
<i>Intro to Word 6 for Windows 3.1</i>	Tues Oct 17	10am - noon	Klamath 486 Lab - B13
<i>Intro to Excel 5 for Windows 3.1</i>	Tues Oct 24	10am - noon	Klamath 486 Lab - B13
<i>Introduction to Windows 95</i>	Thu Oct 12	4:30pm - 6:30pm	231 Gilbert Hall
<i>Getting More Out of Word</i>	Mon Oct 23	4pm - 6pm	231 Gilbert Hall
<i>Getting More Out of Excel</i>	Wed Oct 25	4pm - 6pm	231 Gilbert Hall
<i>PowerPoint</i>	Mon Oct 30	4pm - 6pm	231 Gilbert Hall
<i>Remote Access with Macintosh</i>	Wed Oct 18	3pm - 5pm	185 Computing Center
<i>Remote Access with PC/Windows</i>	Thu Oct 19	3pm - 5pm	185 Computing Center

Check Out the CC-EMU Microcomputing Lab

The CC-EMU Microcomputing Lab, located on the bottom floor of the Erb Memorial Union in Room 22, offers network and e-mail access to all UO students, faculty, and staff. The lab has nearly 100 microcomputers, including Macs, PCs, and e-mail-only terminals, and also offers laser printing and network access. ID cards are required to use the lab.

During fall term, the lab will be open seven days a week, as follows:

Monday - Thursday	8:30am - 11pm
Friday	8:30am - 5:30pm
Saturday	1pm - 5pm
Sunday	noon - 10pm

Other Microcomputing Labs on Campus:

In addition to the CC-EMU lab described above, the following microcomputing labs are available to all students, faculty, and staff:

Knight Library Information Technology Center (2nd floor): Macs and PCs. Call 346-1935.

Science Library (basement, Onyx Bridge building): Macs and PCs. Call 346-3075.

Social Science Instructional Lab (72 PLC): PCs. Call 346-2547.

Computing News is published twice a term during the academic year by the Documentation Services group of the Office of University Computing, Computing Center, 1212 University of Oregon, Eugene, OR 97403.

Telephone: (503) 346-1724

Web URL:

<http://darkwing.uoregon.edu/~cchome1/documentation/documentation.html>

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NEWS BRIEFS

InterPPP Now Available Free to Mac Users

The Computing Center recently acquired a site license for *InterPPP*, a new remote access program for Macintosh users. Under the site license agreement, copies of *InterPPP* may be obtained free of charge on the CC Public Domain server or at the Center's Microcomputer Services consulting desk in Room 202A.

Like *ARA* and *InterSLIP*, *InterPPP* allows UO students, faculty, and staff to dial in to a UOnet modem from their home (see the article "More Modems!" in this issue). *InterPPP* enables remote users to share files and printers, connect directly to remote hosts, and browse the World Wide Web. The Center's Microcomputer Services staff continue to support other Mac remote-access software packages (including *ARA 2* and *InterSLIP*), but now recommend *InterPPP* as the program of choice for Mac users.

Help Desk Reopens for Fall Term

As of September 18, the Computing Center's Help Desk reopened for business in the south lobby entry area. It is staffed from 9 am to 4:30 pm, Monday through Friday.

In addition to assisting in the creation of new computing and network accounts, Help Desk attendants field a wide range of inquiries, providing referrals to other consulting and information resources when appropriate. The current issue of *Computing News* and a complete collection of Computing Center handouts are also available in the Help Desk document rack.

The UO Gopher is Gone!

If you're returning to campus after the summer hiatus, remember—Gopher is gone! The UO Gopher has been superseded by the World Wide Web as the primary online information server on campus. You can continue to access Gopher servers elsewhere by typing at your system prompt the command

```
gopher gopher-server-address
```

identifying the Internet address of the server.

Forget Your Password?

If you have an account on one of the UO's timesharing computers (GLADSTONE, DARKWING, OREGON, DONALD, or DAISY) and have forgotten your password, please do not call the Computing Center's Help Desk or Computing Accounts office to restore your old one or request a new one. Here's the Center's new password reassignment procedure:

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Pick up a password change request form during business hours, either at the Help Desk in the south entry foyer or at the downstairs reception counter in Room 108. The person accepting your form will ask you for photo identification. Once you've completed the form and your ID has been verified, the password change is processed, and your new password will be in effect by the next working day.

Join Mailing Lists for System/Network Status

VMScluster account-holders can easily stay abreast of the latest UO timesharing system and network developments by subscribing to several online mailing lists. SYS-INFO, SYS-STATUS, UONET-INFO, and UONET-OUTAGES provide timely information about the Computing Center's timesharing computers (GLADSTONE, DARKWING, OREGON, DONALD, and DAISY) and UOnet events and problems.

Timesharing Systems Information. SYS-INFO informs its readers about new Center policies and procedures, hardware and software upgrades, and known system problems and solutions. SYS-STATUS posts scheduled down times for all systems and provides current system status information.

Network Information. UONET-INFO publicizes network events of interest that may affect network service. UONET-OUTAGES announces UOnet outages, down time, and connectivity problem resolution.

How to Subscribe: Send an e-mail message to the address shown below and include a SUBSCRIBE command on a line by itself, as follows:

SYS-INFO and SYS-STATUS - Send mail to mailserv@oregon with the text line(s)

```
subscribe sys-info (and/or)  
subscribe sys-status
```

If you have any questions regarding these lists, mail them to sys-info-request@oregon or sys-status-request@oregon.

UONET-INFO and UONET-OUTAGES - Send mail to majordomo@ns.uoregon.edu with the line(s)

```
subscribe uonet-info (and/or)  
subscribe uonet-outages.
```

To remove your name from any of these lists, follow the same instructions, including the line

```
unsubscribe listname
```

as the text of your mail message, identifying the mailing list name.

e-mail consulting

Need consulting help? Microcomputer Consulting and Services, Purchase Program, network, and general consultants may all be reached via e-mail:

Consulting Service	E-Mail Address
Micro consultants	microhelp@oregon.uoregon.edu
Micro Purchase Program	mpp@oregon.uoregon.edu
Network Services	nethelp@oregon.uoregon.edu
General (VMS/UNIX, statistics, e-mail)	consult@oregon.uoregon.edu

Off-Campus Access: The Cons, continued...

user community...busy signals are a fact of life for off-campus modem access to the network.

For most curriculum-related activities, resource retrieval via modem is extremely inefficient. Even with the highest speed modem connection currently supported (28,800 bps), an off-campus connection to the Internet is 10 times slower than one on-campus. This means it would take 300 seconds (5 minutes) to transfer that one-

megabyte file to your home computer. It may be an inefficient use of your time to plan on accessing Internet materials via modem. I should note that for text-based applications such as e-mail, a modem connection does provide adequate data transfer.

Time Limits: The UO has established a time limit for dial-in connections to ensure that everyone has an equal opportunity to access UOnet resources.

Anyone who exceeds the limit is automatically disconnected. The time limit is currently under discussion by the Educational Technology Committee.

Third party vendors: Internet Service Providers (ISPs) in the Eugene area, including Eugene Free Net (Oregon Public Networking) and The Pond, represent a reasonable alternative to the UO's busy signal if you are a frequent modem user and can handle the added costs. In addition, ISDN and Frame Relay service offered by US West will soon show a greater presence in the Eugene market. These services provide relatively high bandwidth (56 to 128K). Remote access to UOnet via third-party services will be an increasingly viable option to modem users.

Optimal Use of Your Money

We are trying to make optimal use of educational technology fee monies by providing UO students with the best possible access to network resources. Each new modem costs about \$1,000, with an additional \$350 dollars per year in telephone line charges. A reasonable on-campus, high-bandwidth, networked computer costs around \$2500. Thus, a new modem is not that much less expensive than buying a new personal computer and installing it in a student lab. Since network-based curriculum and instructional technology is the validating reason for student access to the Internet, acquisition of new networked campus workstations makes more sense than buying new modems.

Over the next year, we hope to refine the management of modems to accommodate a wide range of student needs. However, I emphasize once again that for all practical purposes, and certainly for all curriculum-related issues, on-campus access to the network is the most sensible, painless, and efficient way for you to manage your time. Complaining about saturated modem lines is not constructive, nor does it solve anything.

The analog is clear: if you need to find a book in the library, you have to come to campus; if you need to have reliable high-speed access to the Internet, the same is true.

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Janus EXPANDS

Over the last year, many enhancements have been added to Janus, the UO Library's online information system. Logging in on Janus from your office or home provides you with full access to all its databases and services, which now include 15 periodical indexes, 14 online catalogs from other libraries, and *Orbis*, the academic union catalog, as outlined below.

Periodical Indexes

Periodical indexes available on Janus include

- ABI/Inform (business)
- Expanded Academic Index
- Newspaper Abstracts
- the Art Index
- FactSearch
- Medline (medicine)
- CARL UnCover
- Article 1st
- PsycINFO (psychology)
- ERIC (education)
- SocioAbs (sociology)
- Anthropological Literature
- GPO Monthly Catalog (federal publications)
- Avery Index to Architectural Periodicals

Online Catalogs

When you're logged in on Janus, you can now easily access the Worldcat database and catalogs from the following sources:

- Center for Research Libraries
- Oregon State Univ.
- Harvard Univ.
- Library of Congress
- Portland State Univ.
- Univ. of Texas
- Univ. of California (MELVYL)
- Univ. of Arizona
- Univ. of Michigan
- New York Public Library
- Univ. of British Columbia
- Univ. of Washington
- Oregon Health Sciences Univ.

Orbis

The online catalog *Orbis* combines the collections of Eastern Oregon State College, Linfield College, Oregon Institute of Technology, Southern Oregon State College, University of Oregon, Western Oregon State College, and Willamette University into a single catalog. Work is underway to add four more Oregon schools this fall: George Fox College, Lewis and Clark College, Reed College, and the University of Portland. *Orbis* will soon offer a World Wide Web interface as well as an automated borrowing feature.

Special Services

Janus features some special services, including the ability to export selected citations to an e-mail address or disk. The CARL UnCover database also offers a service called

Thinking of Upgrading to Windows 95?

If you own a PC/compatible computer and are thinking of upgrading to *Windows 95*, the Microcomputer Services staff has some suggestions. Over the past six months, we've tested Microsoft's highly-publicized new operating system on numerous machines, and found *Windows 95* to be a major improvement in terms of stability, usability, and the ability to run multiple applications simultaneously. Our findings are the basis for the following recommendations.

Documentation Resources

The key to a successful upgrade is to plan ahead and do your homework. There are four documents we recommend you check out before installing *Windows 95*:

- See the "Hardware Compatibility List" and the "Applications Compatibility List" to make sure the upgrade is feasible on your machine. You can find them through Microcomputer Services' World Wide Web home page, under [Windows95 Support](#), or directly at

<http://darkwing.uoregon.edu/~mcshtml/win95dir/index.html>

- If you're planning to connect to UOnet, either on campus or off, see "On-campus Network Access with *Windows 95*" or "Remote Access with *Windows 95*" before upgrading. Both are available through Microcomputer Services' Web page under [Windows95 Support](#), or in hard copy form in the Computing Center Documents Room (205) and Microcomputer Support Center (202).

Minimum Requirements to Run Windows 95

To run *Windows 95* efficiently, you'll need to have as much memory (RAM) as possible. The table below shows some recommended hardware configurations, and gives some idea of what you can expect with each:

Machine	Hard Drive	RAM	Capabilities	Limitations
386 33Mhz SX	340MB	4MB	Can run very small applications like <i>Calculator</i> and <i>Note Pad</i>	Can't handle mainstream applications such as <i>Microsoft Word</i> , <i>Excel</i> , <i>WordPerfect</i>
486 33Mhz SX	340MB	8MB	Can run mainstream applications such as <i>Microsoft</i> , <i>Word</i> , <i>Excel</i> , <i>WordPerfect</i>	Can't open multiple documents in multiple applications (e.g., <i>Microsoft Office</i>)
486 50Mhz DX	540+MB	16MB	Can open multiple documents in multiple applications (e.g., <i>Microsoft Office</i>)	

Considerations for LAN Workplace Users

At this time, Novell Corporation does not support *LAN Workplace* running under *Windows 95*. This is true of even the new version 5 of *LAN Workplace*. If you need to run *LAN Workplace* (including the *Host Presenter* and *Rapid Filer* clients), or if you are a BANNER user with special keyboard mappings for *Host Presenter*, you should not upgrade to *Windows 95* at this time. Novell has stated that it plans to release a *Windows 95*-compatible version of *LAN Workplace* sometime in the next three months.

Files to Save Before Upgrading

Before you actually begin the installation, you should save the following files on a floppy disk: CONFIG.SYS, AUTOEXEC.BAT, WIN.INI, SYSTEM.INI, PROGRAM.INI, and PROTOCOL.INI (*Windows for Workgroups* only). Note that all .INI files can be found in your *Windows* directory. Ideally, you should back up your entire hard drive in case problems are encountered during the upgrade.

Need Help?

If you're interested in running both *Windows 95* and *Windows 3.11* on the same machine, or if you have any other questions about upgrading, contact Microcomputer Services in Room 202A (e-mail: microhelp@oregon; phone: 346-4412). The consulting office is open weekdays from 9 am to 5 pm.

JANUS, continued...

"Reveal," which enables you to create an electronic profile of selected journal titles or search strategies for a small charge. When new journal articles matching your profile are added to the UnCover database, the citations are automatically mailed to you.

How to Access Janus

Janus is accessible from networked computers or terminals in campus labs, offices, and dorms (see "Other Microcomputer Labs on Campus" on page 5). If you have a modem and appropriate terminal emulation or remote access software, you may

dial in from home. To access Janus, log in on your timesharing account and type **telnet janus** at the operating system's prompt. You may also access Janus from the UO Library's World Wide Web home page at

<http://libweb.uoregon.edu/uo/libhome>

Need Help?

Reference librarians can assist you in establishing remote access to Janus or searching the Janus databases. Contact the Knight Library Reference Desk (phone: 346-1818; e-mail: libref@oregon.uoregon.edu).