

Computer and Information Services Newsletter

This newsletter is an information resource for the University of Minnesota.

Volume 3, Number 10

April 1994

▽ Features

Biomedical Graphics	
Color on the Desktop	238
Central System News:	
EQS Software Removed	241
Engineering Services	241
Get it on Gopher *	
Clearinghouse, Subject-Oriented Guides	232
University Presses	
• University of Chicago Press	234
• University of Minnesota Press	235
Minuet, an improved version: beta 15	237
Network Tools for Microcomputer Users	236
Opportunity: STAR Program	231
Scholarly Electronic Conferences	225
University Libraries	
Getting the Goods on the Federal Government	
— Using Legi-Slate through LUMINA	239

* To see the *Computer Facilities* schedule for *Spring Quarter 1994*, follow this Gopher path: /Computer Information/Computer & Information Services Newsletter/Computer Facilities.

▽ Book Center News

Macintosh Packaging Change	242
New Power Macintoshes	242
• 6100/60MHz • 7100/66MHz • 8100/80MHz	
Apple WorkGroup Servers	246
Books at a 10% Discount	246



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Scholarly Electronic Conferences

8th Revision of Directory

*Donald Riley, Professor, Associate Vice President
and Associate Provost Academic Affairs*

Below is the announcement that I received about the 8th revision to the Directory of Scholarly Electronic Conferences. We first announced this directory a year ago in our newsletter. At that time the directory was in its 6th revision. The project has grown. If you have not acquired any of the files recently, you may want to take another look at what's available. Table 1 compares the groupings in the 8th and 6th revisions.

Try the Index

You may want to begin your exploration by retrieving the index (called ACADLIST INDEX) to get an overview of the electronic resources. Figure 1 shows two excerpts from the index: the first entry is from the education grouping and the second is from the language resources. Figure 2 shows two entries from FILE1.

▼ The Announcement

Contents:

1. How to Retrieve the Directory of Scholarly Electronic Conferences.
2. Scope of the Directory
3. The Directory Team
4. Subscription Instructions
5. Definitions
6. Archives

➔ continued on next page

1. How to retrieve the Directory of Scholarly E-Conferences

ACADLIST README

(explanatory notes for the Directory)

ACADLIST INDEX

(Listname and Keyword Index of the Directory) 96 k

ACADSTAC HQX

(binhexed, self-decompressing, HYPERCARD version of the Directory - Keyword searchable) 587 k (1 meg. decompressed.)

ACADSMAL HQX

(discontinued but the regular stack should work on small screen Macs now.

ACADLIST FILE1

(Education & Library and Information Science) 120 k

ACADLIST FILE2

(Art and Architecture through Linguistics and Text Analysis) 79 k

ACADLIST FILE3

(Literature through Writing) 98 k

ACADLIST FILE4

(Social Sciences) 141 k

ACADLIST FILE5

(Biological Sciences) 63 k

ACADLIST FILE6

(Physical Sciences) 77 k

ACADLIST FILE7

(Business, Economics, Publishing and News) 38 k

ACADLIST FILE8

(Computer Science) 77 k

ACADLIST FILE9

(Social, Cultural, and Political Aspects of Computing; and Academic Computing Support) 96 k

PRINT version is available from the Association for Research Libraries. The print version is combined with the Directory of Electronic Journals and is called The Directory of Electronic Journals Newsletters and Academic Discussion Lists. Contact Ann Okerson - ann@cni.org for more information.

How to retrieve files from the `LISTSERV@KENTVM` or `LISTSERV@KENTVM.KENT.EDU`

1. Send an e-mail message addressed to

`LISTSERV@KENTVM`

or

`LISTSERV@KENTVM.KENT.EDU`

2. Leave the subject and other info lines blank.

3. The message must read:

`GET Filename Filetype f=mail`

(e.g., `ACADLIST FILE1` or `ACADSTAC HQX` or whatever)

4. If you need assistance receiving, etc. contact your local Computer Services people

How to retrieve files via anonymous FTP to `KSUVXA.KENT.EDU`

1. type:

`ftp KSUVXA.KENT.EDU`

at your dollar sign prompt (VAX) your shell prompt (Unix) or ready screen (IBM VM). If you are on another kind of system consult with your computer services people to find out the proper procedure.

2. when prompted for 'USERID,' type

`anonymous`

3. Your password will be your actual userid on your local machine.

4. Type: `cd library`

5. Type: `get Filename.Filetype` (e.g., `ACADLIST.FILE1` or `ACADSTAC.HQX` or whatever)

6. The files will be transferred directly into the directory you ftp'ed from.

GOPHER `gopher.usask.ca` and `gopher.cni.org` (there are several other sites as well)

2. Scope of the Directory

This directory contains descriptions of electronic conferences (e-conferences) on topics of interest to scholars. E-conference is the umbrella term that includes discussion lists, Internet interest groups, e-journals, e-newsletters, Usenet newsgroups, forums, etc. We have used our own judgment in deciding what is of scholarly interest, and accept any advice or argument about our decisions. We have placed the entries into categories by deciding the *dominant* academic subject area of the electronic conference. Usenet Newsgroups have been directly reviewed for inclusion in this version. The Internet and Bitnet addresses are marked with an (I) or a (B) respectively. Earn and Usenet sites are marked with an (E) or a (U) respectively.

Table 1: Comparison of 8th and 6th File Lists

8th Revision		Sizes of Files	6th Revision		Sizes of Files
ACADLIST FILE		(K, kilobytes)	ACADLIST FILE		(K, kilobytes)
1	Education and Library and Information Science	120	1	Anthropology–Education	53
2	Art and Architecture through Linguistics and Text Analysis	79	2	Geography–Library and Information Science	91
3	Literature through Writing	98	3	Linguistics–Political Science	49
4	Social Sciences	141	4	Psychology–Writing	54
5	Biological Sciences	63	5	Biological Sciences	43
6	Physical Sciences	77	6	Physical Sciences	43
7	Business, Economics, Publishing and News	38	7	Business, Academia, News	22
8	Computer Science	77	8	Computer Science, Social, Cultural and Political Aspects of Computers and Academic Computing Support	104
9	Social, Cultural, and Political Aspects of Computing; and Academic Computing Support	96			
Total for 8th Revision		789	Total for 6th Revision		459

Figure 1: Samples from the Index

ADA-LAW
 ADA (Americans with Disabilities Act)
 alt.education.disabled
 Special Education - ADA (Americans with Disabilities Act)
 AUTISM
 Autism - Psychology - Developmental Psychological
 Disabilities - Psychological Disorders
 AXSLIB-L
 ADA (Americans with Disabilities Act) - Library Services
 BRAILLE
 Blindness - Braille
 DEAFBLND
 Blindness - Deafness

...

GAELIC-L
 Gaelic Language - Scottish Language - Irish Language
 GERLINGL
 Germanic Languages - Old German Language
 HELLAS
 Greek Language (Modern)
 IROQUOIS
 Iroquois Language
 JTEM-L
 Japanese Language
 JTIT-L
 Japanese Language - Instructional Technology
 LANGIT
 Italian Language - Italian Linguistics
 LANTRA-L
 Machine Translation - Interpreting - Translation
 LATIN-L
 Latin Language

Figure 2: Sample Entries from FILE1

LN: ADA-LAW
 TI: Discussion of various aspects of the American with Disabilities Act.
 SU: (B) LISTSERV@NDSUVM1 (I) LISTSERV@VM1.NODAK.EDU (U)
 bit.listserv.ada-law
 ED: Yes
 AR:
 MO:
 SU: (B) ADA-LAW@NDSUVM1 (I) ADA-LAW@VM1.NODAK.EDU
 KE: ADA (Americans with Disabilities Act)

LN: alt.education.disabled
 TI: Discussion of education of those with mental and physical disabilities.
 SU: (U) alt.education.disabled
 ED:
 AR:
 MO:
 SA: Local Usenet Newsreader
 KE: Special Education - ADA (Americans with Disabilities Act)

LN: AUTISM
 TI: This list is devoted to issues related to developmental disabilities. It's purpose is to provide a forum for those who are Developmentally Disabled, their teachers, and others interested in this area. All developmental disabilities can be considered, and the aim is to promote understanding as well as to share information concerning succesful interventions and adaptive strategies.
 SU: (B) LISTSERV@SJUVM (I) LISTSERV@SJUVM.STJOHNS.EDU
 ED: Yes
 AR: Yes, Weekly, Private
 MO: Bob Zenhausern (B) drz@sjvm (I) DRZ@SJUVM.STJOHNS.EDU
 SA: (B) AUTISM@SJUVM
 KE: Autism - Psychology - Developmental Psychological Disabilities - Psychological Disorders

Many LISTSERV e-conferences have peer sites, in order to save space we have only listed the main LISTSERV node for these.

Where possible, the information in each record has been checked for currency and accuracy by contacting the moderators or other contact person.

We chose the term "moderator" as the umbrella term to describe: contact person, coordinator, listowner, editor, moderator, etc.; whoever is in charge.

The field labels are as follows:

LN: (e-conference name)
 TI: (topic information)
 SU: (subscription information)
 ED: (edited? Yes or No -
 Private lists were called edited)
 AR: (archived? if Yes, frequency,
 Private=subscribers only)

MO: (moderator, editor, listowner, manager,
 coordinator, etc.)

SA: (submission address(es))

KE: (keywords)

Topic descriptions are taken in whole or part from the descriptions provided by each moderator. Thank you to Marty Hoag, Listowner of New-List for providing the archives of New-List as a clearing house for list information. Special thank you to David Hartland, NISP/Mailbase Project, Computing Service, The University, Newcastle upon Tyne for information on 235 of the United Kingdom MAILBASE e-conferences. Thank you also to Teri Harrison for updating and providing information on the COMSERVE conferences, Pedro Saizar for providing information on Latin American Studies electronic conferences, Joseph Van Zwaren for Israeli electronic conference information, and Joan Korenman for information on Women's Studies conferences, Jean Schneider for confirming European e-conferences and Hunter Monroe for checking on the unannounced and

Tips for Microcomputer Users

The files you retrieve from the Directory of Scholarly Electronic Conferences include references to information that is available from many delivery systems, such as

Gopher and Gopher+
 LISTSERVs

anonymous FTP
 Usenet newsgroups

A quick way to obtain a copy of the scholarly lists featured here is to use anonymous FTP, a process that is very easy if you have the right software — such as Fetch for the Mac and Minuet for IBM-compatibles. Figures 3 and 4 show sample anonymous FTP sessions. To learn more about Fetch, Minuet, and other microcomputer versions of Internet tools, read the *Network Tools for Microcomputer Users* article elsewhere in this newsletter.

Figure 3:
Use Anonymous FTP

In this example we used Fetch.

Enter host name, user name, and password (or choose from the shortcut menu):

Host:

User ID:

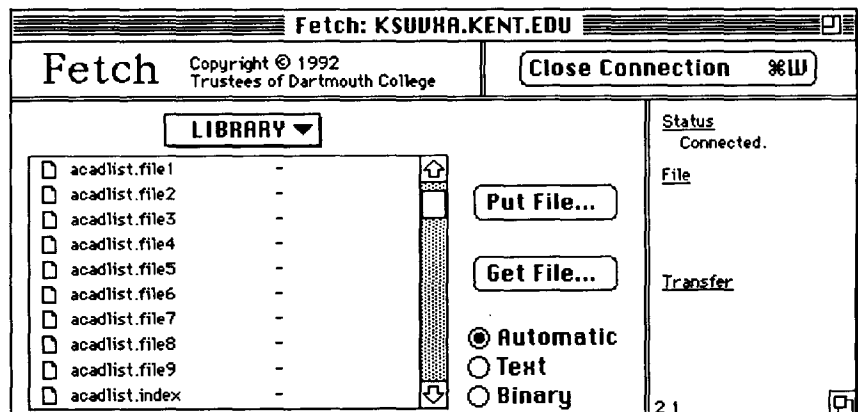
Password:

Directory:

Shortcuts:

Figure 4: Once You're Connected, Select the File You Want.

In this example, use Fetch's Get File button.



relocated e-conferences. Thank you very sincerely to all the individuals who contributed conference names, information and feedback about conference statuses. Any errors are the responsibility of the compilers of each section. If you can provide corrections or additional information about any of these electronic conferences, please contact the Directory Team member responsible for that area or:

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3. The Directory Team:

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Gladys Bell
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 Art - Library and Information Science - Publishing and Related Issues - Music - Theater, Film and Television

4. General Subscription Instructions:

To subscribe to a LISTSERV (both Unix Internet and IBM/VM LISTSERV software is in use). Both Internet and Bitnet addresses are provided where possible, COMSERVE, LISTPROC, MAILBASE, MAILSERV, MAJORDOMO, NEWSERV or SARASERV discussion list send an e-mail message addressed to the Bitnet or Internet address provided in the SU: field. Leave the subject line blank. The text of the message *must* read:

```
SUBSCRIBE LISTNAME Yourfirstname
Yourlastname Your Institution
```

(LISTNAME means the name of the list, e.g. if the LN: field says LIBREF-L@KENTVM.KENT.EDU, the LISTNAME is LIBREF-L)

Bitnet users should use the Bitnet address. Internet users should use the Internet server address. Do not include any other text and *leave the subject line blank* as this is being read by a computer and not a person....the machine just won't understand and will bounce back your command if it is not worded as specified above.

To subscribe to Internet Interest Groups, you send an e-mail message to

list-REQUEST@host

(e.g., SOC-CULTURE-GREEK-REQUEST@CS.WISC.EDU). The -REQUEST address gets you to the Coordinator, rather than to the membership of the entire e-conference. Please look carefully at the entry for each list you are interested in, to see if a -REQUEST address has been provided. Include your name, address, and institutional affiliation in your message.

Usenet Newsgroups are generally accessed by typing "RN" or "NN" at the shell prompt, ready screen or \$ prompt on your e-mail account. Check with your Computer Services People to find out what the local availability and procedures are for access to Usenet Newsgroups.

Subscription directions for other types of discussions are included with individual entries.

5. Definitions

BITNET — Because Its Time Network...BITNET was established as an academic network for scholars from different universities all over the world to communicate with each other. BITNET uses RSCS protocol. This means that messages/commands are "leap-frogged" from one BITNET connected Computer to another (e.g., Kent State University to Ohio State University to University of Houston).

EARN — is the European Academic Research Network and works similarly to (and is directly connected to) the Bitnet.

FTP — File Transfer Protocol, allows moving files from one computer to another using the Internet protocols.

Internet — The international network of networks based on the TCP/IP protocol. That is, to be connected to the Internet, a computer must be running the TCP/IP software, have a registered domain, and a telecommunications connection to other computers running TCP/IP (e.g., connected through OARNET).

Usenet — A worldwide Unix-based network that supports the distribution of messages; e.g., USENET NEWS.

*If you find other terms that you would like to understand please contact us and we'll be glad to help.

6. Archives

Archives are available for many discussions. On LISTSERV, COMSERVE, MAILSERV and MAILBASE to receive a list of files available from a server send the command: INDEX LISTNAME to SERVER@NODEID

You can then send the message:
GET Filename Filetype to the SERVER@NODEID.
(SERVER means LISTSERV or COMSERVE or MAILBASE or MAILSERV or whatever, NODEID means the site of the server which runs the e-conference)

It is also possible to search Bitnet LISTSERV and COMSERVE discussion archives for items of particular interest to you. For details on archives searching:

For LISTSERV send the message

INFO DATABASE

to a LISTSERV of your choice. (e.g. LISTSERV@PSUVM)

For COMSERVE send the message

HELPPFILE

to COMSERVE@RPIECS

Some discussions maintain archives available via anonymous FTP. This is noted where available. In the next revision sites where archives are maintained on other types of Internet server, e.g. GOPHER, WWW.

Copyright 1994 by Diane K. Kovacs, The Directory Team and Kent State University Libraries. Single copies of this directory from its networked sources, or of specific entries from their networked sources, may be made for internal purposes, personal use, or study by an individual, an individual library, or an educational or research institution. The directory or its contents may not be otherwise reproduced or republished in excerpt or entirety, in print or electronic form, without permission from Diane K. Kovacs, Kent State University Libraries. (dkovacs@kentvm.kent.edu).

Diane K. Kovacs, Editor-in-Chief, "Directory of Scholarly E-Conferences" (via anonymous ftp ksuvxa.kent.edu, library directory) dkovacs@kentvm.kent.edu
dkovacs@kentvm (216) 672-3045

Scholarly E-Conferences Available on Gopher

The Directory of Scholarly Electronic Conferences will also show up on several Gopher servers. Currently you can find it on a Gopher in Australia by following this path from the University of Minnesota's Home Gopher:



Other Gopher and Information Servers
Pacific
Austin Hospital, Melbourne, Australia
Research-Related Information
Directory of Scholarly E-conferences

Search of Keywords

This Gopher server lets you browse or search for keywords. The keyword search looks through the E-Conference's descriptions. When we searched on the word "veteran," we were presented with these results: VWAR-L, WWII-L, and OPERA-L. To learn more about one of these lists, just select the list's name. Below are excerpts from the information we found. Note that the word "veteran" is used somewhere in the TI (topic information) section.

LN: VWAR-L

TI: The Vietnam War discussion list is the networking component of the Vietnam Veterans Oral History and Folklore Project and was designed to facilitate communication between scholars, teachers, veterans, and anyone else interested in the Vietnam War. Information available on VIETNET will include: Announcements of meetings, conferences and veterans' activities.

LN: WWII-L

TI: World War II topics such as history, strategy, technology, personalities, political issues, general information, and "trivia" are welcome. Announcements of reunions and other items of interest to World War II veterans (and those who still remember and honor them) will also be posted. The list will be self-moderated by a system of "flags" in the subject line to allow subscribers to skip topics they are not interested in reading.

LN: OPERS-L

TI: This is a discussion group about MAINFRAME Computer Operations for computer operators, lead operators and supervisors, etc. Some of the possible topics (but not limited to): operator training (or lack of - as is too often the case in some installations); tips on operating the various computer systems and I/O gear; those helps and hints that could be shared by veteran operators to aid new operators in their learning process; those hints that are not in the documentation to make an operators job a little easier...

Opportunity

▼ STAR Program

The *Closing the Gap (CTG) Conference* is an international event featuring microcomputer technology in special education and rehabilitation. The 1994 conference will be held in Bloomington, MN

Radison South Hotel and Hotel Sofitel
October 18-22, 1994

The conference will feature hands-on labs and over 175 sessions that describe or demonstrate successful applications of computer technology for persons with disabilities.

Scholarships and Deadlines

The STAR (System of Technology to Achieve Results) Program, a non-profit organization designed to increase awareness and access to assistive technology for people with disabilities, has a limited number of scholarships for the 1994 Closing the Gap Conference. The scholarships are available for individuals with disabilities, family members, and professionals who are residents of the State of Minnesota. Scholarships include the registration fee for the two-day conference and a stipend to help defray expenses. Preference will be given to • users or potential users of assistive technology • persons who have not previously attended a CTG conference • persons who can demonstrate a way to share the information from the conference with others • persons who can apply the content in their own lives, the lives of family members or the people they serve • persons residing outside the seven county metro area

To obtain application materials, contact Linda Koerner at the STAR Program office 612/296-2771 (voice) or 612/296-9962 (TDD). Applications must be returned to the STAR Program by July 1, 1994.

The STAR Program is a non-profit organization designed to increase awareness and access to assistive technology for people with disabilities.

Get it on Gopher: Clearinghouse for Subject-Oriented Guides



In late December the *Clearinghouse for Subject-Oriented Internet Resource Guides* became available via Gopher. This clearinghouse is a joint effort of the University of Michigan's University Library and the School of Information and Library Studies (SILS). Table 1 shows the clearinghouse's current contents.

Table 1: Clearinghouse's Current Contents

About the Clearinghouse (UMich)
? Search full text of these Guides
The Internet Resource Discovery Project (UMich)
Helpful Information on using the Internet
All Guides
Guides on the Humanities
Guides on the Sciences
Guides on the Social Sciences
Guides with coverage of Multiple Subjects
Clearinghouse Updates

Table 2 is a "snapshot" of the guides that were available when this article was written.

Computer Networks and Internet Guides

The clearinghouse's *Helpful Information on using the Internet* section contains guides not listed in Table 2. Look in the *Computer Networks and Internet Guides* section for general purpose Internet guides, such as *Big Dummy's Guide to the Internet*.

Tips for Microcomputer Users

These subject guides include information that is available from many delivery systems, such as

- Gopher and Gopher+
- anonymous FTP
- LISTSERVs
- Usenet newsgroups

If you're an IBM or Macintosh user, you can access many of the delivery systems used on the Internet with tools designed specifically for your machine. Information on these tools is usually not included in general purpose guides, such as the subject oriented guides discussed in this article.

To learn more about microcomputer versions Internet tools read the *Network Tools for Microcomputer Users* article elsewhere in this newsletter.

Table 2: All Subject Guides

Adult/Distance Education	A
Aerospace Engineering	
Agriculture	
Animals	
Anthropology Education	
Archaeology, Historic Preservation	
Architecture, Building	
Archives	
Biological Sciences	B
Bisexual	
Black/African	
Book Discussions and Reviews	
Buddhism	
Business, Economics	
Business, Misc. Academia, News	
Business	
Chemistry	C
Christian Resources	
Computer-Mediated Communication	
Computing	
Conservation	
Diversity	D
Earth Sciences	E
East Europe	
Economics	
Education (volumes 1-4)	
Educators	
Employment Opps & Job Resources	
Film and Video	F
Geography, Library & Info Science	G
German History	
Government Information	
Health Sciences	H
Higher Education	
International Trade & World Commerce	I
Journalism	J
Law	L
Library	
Linguistics	
Magick, Mysticism	M
Math & Science Education	
Medical History	
Networks and Communities	N
Neurosciences	
Personal Finance	P
Philosophy	
Physical Sciences	
Popular Music	
Psychology, Writing	
Public Policy	
Religion	R
Religious Studies	
Social Science	S
Theater, performance	T
Theater	
Tibetan Studies	
US Federal Government	U
US Politics	
West European History & Culture	W
Women's Studies, Feminism	
Writing	

Obtaining the Guides

To obtain the guides you can follow this path from the University's home Gopher server:

```
Other Gopher and Information Servers
  North America
    USA
      Michigan
        Clearinghouse of Subject-Oriented... Guides
```

Figure 1 shows two excerpts from the *Personal Finance* guide from the Social Sciences section.

Read Them At Your Leisure

The guides tend to be large. Microcomputer software such as Minuet and PC Gopher for IBM microcomputers and TurboGopher for Macintoshes make it easy to save your own copy of the documents. Once it's saved to your hard disk you can read it with your favorite word processing software.

Other Access to Clearinghouse

Here are other ways of getting to the Clearinghouse:

anonymous FTP:

```
host: una.hh.lib.umich.edu
path: /innetdirsstacks
```

Uniform Resource Locators (URL):

```
http://http2.sils.umich.edu/~lou/chhome.html
gopher://una.hh.lib.umich.edu/11/inetdirs
```

Gopher .link file:

```
Name=Clearinghouse for Subject-Oriented Internet
Resource Guides (UMich)
```

```
Type=1
Port=70
Path=1/inetdirs
Host=una.hh.lib.umich.edu
```

**Figure 1: Excerpts from the
Personal Finance Guide.**

5.3

TITLE: misc.consumers.house

DESCRIPTION: Usenet newsgroup

ACCESS: Usenet

URL: news:misc.consumers.house

COMMENTS: misc.consumers.house is a heavily trafficked newsgroup, averaging over 50 postings daily. Though the majority of the messages posted deal with home repair, remodeling, and consumer product and service issues, there are frequent discussions of topics relevant to personal finance. These topics include choosing a real estate agent, buying a house, home owner's insurance, and mortgages. Messages posted to the newsgroup are frequently in the form of a person looking for input from newsgroup participants before making a major decision. The group does not have an FAQ, but old messages are archived and available via email searches from Data General
SEE ALSO: For information about the misc.consumers.house archives at Data General, see 5.4.

6.3

TITLE: Credit Use and Rights, Consumer Information and Tips

DESCRIPTION: File from the Denver Freenet

ACCESS: Telnet. To access, use the following steps: telnet freenet.hsc.colorado.edu

Login: guest

Select Business and Industrial Park

Select Better Business Bureau

Select Credit Use and Rights

URL: telnet://freenet.hsc.colorado.edu/

COMMENTS: This file offers brief, basic information on consumer credit rights: the equal credit opportunity act and the fair credit billing act. Also included is information on credit reports and how to insure that your rating remains good.

SEE ALSO: For other Personal Finance resources on the Denver Freenet see: 3.1, Living Trusts: 5.1, So You Want to Finance a Home.

Get it on Gopher — University Presses

University of Chicago Press



The University of Chicago Press recently set up its own Gopher server. You may want to check out two items in the *New Books from Chicago* section.

Excerpt from *The Electronic Word*

We received this announcement electronically from Dean Blobaum, The University of Chicago Press, as part of the February 8, 1994 CRTNET, an electronic publication edited by Tom Benson, Penn State University.

New Book Excerpt Available

The University of Chicago Press is making available on the Internet an excerpt from "The Electronic Word" by Richard Lanham. In "The Electronic Word" Lanham, a professor of English at UCLA, surveys the effects of electronic text on arts and letters, on the academy, and on the future of democratic education. The excerpt includes the book's fourth chapter: "Extraordinary Convergence: Democracy, Technology, Theory, and the University Curriculum."

The excerpt may be retrieved via gopher, anonymous FTP, or by e-mail. The ASCII text file is 64, 545 kB.

View and/or retrieve via gopher: Gopher to: press-gopher.uchicago.edu (port 70) and choose the menu item "New Books from Chicago"

Retrieve the ASCII text file LANHAM.TXT via anonymous FTP: FTP to: press-gopher.uchicago.edu cd pub/excerpts lanham.txt

Retrieve the ASCII text file via e-mail: Send e-mail to etext-request@press.uchicago.edu with the subject field blank and a message consisting of SEND ELECWORD; the request is handled by a human, not a machine.

The Chicago Manual of Style: 14th Edition

Below are excerpts from the section called *What's new in the 14th Edition of the Chicago Manual of Style*:

The University of Chicago Press has just published the new edition, the first in eleven years, of the indispensable tool for writers, editors, proofreaders, and publishers.

Almost 200 pages longer than its predecessor, *THE CHICAGO MANUAL OF STYLE, 14TH EDITION*, has been thoroughly revised and updated. It's richer in illustrative examples, easier to use, and incorporates the latest developments in technology and changes in style and usage in every chapter....

1 Cloth ISBN: 0-226-10389-7
\$40.00

To find out what's new to the 14th edition chapter by chapter, click on the menu items for each chapter.



Legi-Slate

The Legi-Slate database includes:

- Federal Register indexing since 1981; full-text since 1985.
- Verbatim transcripts since October 1985 for selected committee hearings, White House and executive branch news briefings, *Meet the Press* and other news/analysis television shows - and more.
- Almanac of American Politics since 1985.
- Public interest group ratings since 1979.
- Bill status and tracking since 1979.
- Full-text of the Congressional Record since 1987.
- Recorded floor and committee votes since 1979.

Read about Legi-Slate in this month's library column: "Getting the Goods on the Federal Government" on page 239.

University of Minnesota Press



The University of Minnesota Press has also set up a Gopher Server. Currently the server has three entries:

- About the University of Minnesota Press Online Books in Print Catalog
- Books in Print
- Newly Published

Use Search

We used the *Search* option in the *Books in Print* section to find entries on Minnesota and Midwest. You can see the results in Figures 1 and 2. When we searched on North and Northern we found additional regional information.

Locating the Gopher Servers



University of Minnesota Gopher users can find the University of Minnesota Press and the University of Chicago Press Gopher servers by following these paths from the Home Gopher:

- Other Gopher and Information Servers
- North America
- USA
- Illinois
- University of Chicago Press
- New Books from Chicago

- University of Minnesota Campus Information
- Department and College Information
- University of Minnesota Press

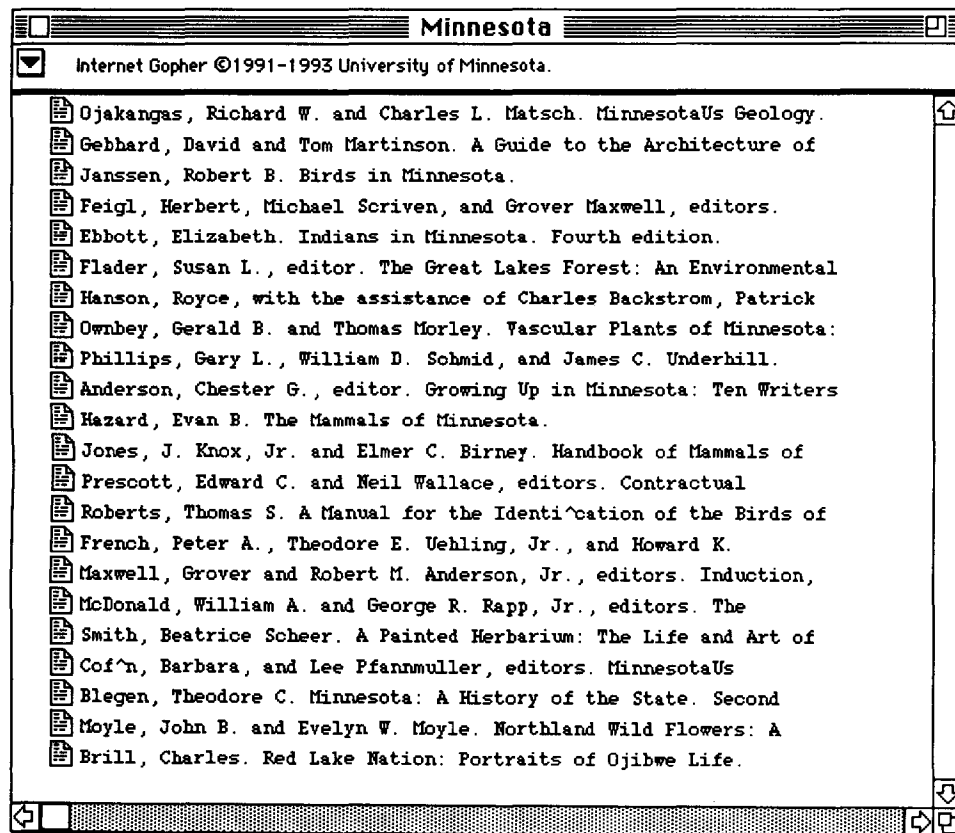


Figure 1: Results of Search on the word "Minnesota"

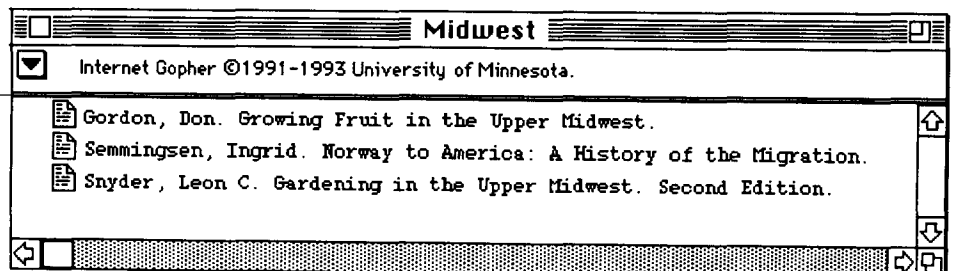


Figure 2: Results of Search on the word "Midwest"

Network Tools for Microcomputer Users

*Featuring Minuet Beta 15,
with improved Gopher handling for very large documents.*



In previous issues of this newsletter we've discussed the IBM and Macintosh software tools you can use to access many of the delivery systems used on the Internet, such as Gopher and anonymous FTP. These software tools are listed in Table 1.

Micro versus Mainframe

Tools such as TurboGopher, Fetch, and Minuet make it much easier to save your own copy of information onto your own hard disk.

General purpose guides written about accessing the Internet — such as the Subject Oriented Guides and Directory of Scholarly E-Journals discussed elsewhere in this issue of the newsletter — often give instructions for using mainframe software or Unix commands. If you use an IBM or a Macintosh personal computer, you may want to use Table 1 to help you find information about using software written specifically for your machine.

Obtaining the IBM Software

The software is available on the IBM Information Server. You can obtain the software in several ways. A common way is to bring floppy disks to any Microcomputer HelpLine and copy the software from the P: (public) drive.

If you plan to use Minuet with a modem, you can use the

```
slipdisk
```

procedure (a batch file) to copy Minuet and SLIP to a floppy disk. If you plan to use Minuet with Ethernet or EtherJack, you can copy it from this directory

```
p:\internet\minuet
```

Table 1: Network Software Tools for "Delivery Systems"

Delivery System	IBM	Mac	Recent Newsletter Articles
Gopher and Gopher+ client software	Minuet/Gopher	TurboGopher	<i>What is Gopher</i> – May 1993 <i>Minuet 1.0, Beyond E-mail</i> – November 1993
FTP and anonymous FTP	Minuet/FTP	Fetch	<i>Tap into Info with Telnet & FTP</i> – April 1993
LISTSERV	Minuet/POPmail	POPmail	LISTSERV articles – February and April 1993 <i>Minuet 1.0, Beyond E-mail</i> – November 1993
Usenet newsgroups	Minuet/News	Nuntius	Minuet's News reader in December 1993 Nuntius for Macs in January 1994
Telnet	Minuet/Telnet	NCSA Telnet	<i>Tap into Info with Telnet & FTP</i> – April 1993

Obtaining the Mac Software

The software is available on the *information* volume of the Mac Information Server. You can access the server from many locations, including the computer on your desk if you can see the *MicroCenter* AppleTalk Zone.

The *information* volume's *Communications* folder has a *Network Software* folder. This folder has a lot of network software, including Fetch, Nuntius, and MacTCP. To use Nuntius you must have System 7 installed on your Mac. (Since you must have MacTCP installed on your machine before you can run any TCP/IP network software, such as POPmail, many people already have MacTCP installed on their machine.)

MacSLIP for Modems

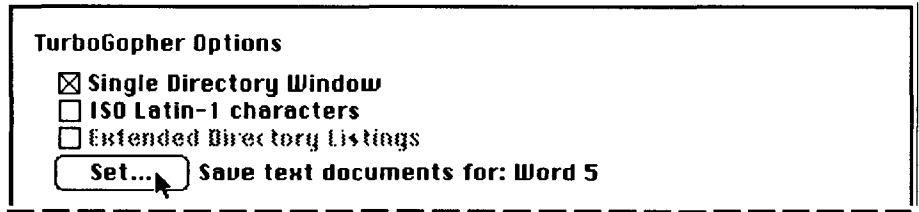
The server does not have MacSLIP, software that lets you establish a network connection with a high speed modem. Members of the University community can get a free copy of MacSLIP after they sign a usage agreement. Talk to a consultant in any Microcomputer HelpLine to obtain this SLIP software.

If you've picked up "SLIP disks" from our HelpLines, you probably already have Gopher, Telnet, and POPmail installed on your computer. Free copies of Fetch and Nuntius are available, as described above.

Saving Text with Gopher

When you use Minuet/Gopher or TurboGopher you sometimes select information that is too large to read on your screen *unless* you save it to your hard disk first. Once the information is saved to your hard disk, you can probably read it with your favorite word processing software.

Figure 1: Customizing TurboGopher



Improved Minuet/Gopher: Beta 15

Older versions of Minuet/Gopher truncated very large documents. By the time you read this, another version of Minuet will be available that fixes this problem. Minuet Beta 15 will be available in the usual locations.

Customizing TurboGopher

You can customize your TurboGopher client software so that it will automatically save text in any Macintosh word processing software's format.

To set this feature, select *Options* from the *Setup* menu. Then click on the *Set* button, as shown in Figure 1. Next you must click on the icon for your word processing software. To do this you will probably have to move through several folders. After you've selected the software, for example Microsoft Word, click on the *Open* button. When you're done, the name of your word processing software will appear next to the *Set* button, as shown in Figure 1.

Minuet Beta 15

Older versions of Minuet truncated very large documents. By the time you read this, another version of Minuet will be available that fixes this problem.

Minuet Beta 15 will be available in the usual locations.

Color on the Desktop

*What you see is not necessarily what you get.
Edwin Beylerian, Biomedical Graphics*



Four years ago when I started exploring the world of digital color on the desktop, the universe was full of promise when I first experienced the joys of a high-resolution display monitor and the wonderful fluidity of navigating through color palettes, image processing programs, paint programs, colored scans and the like.

Things got a little more complex when it came time to leave the cozy and self-contained world of the computer and to translate that vibrant color image issued from imagination and electronic data into the realm of paper and the printing press. The first wax-transfer prints I saw certainly had vivid color and a nice glossy texture, but one had to regard the technology as a child with promise and a lot of homework to do. Seminars on integrating traditional color separation techniques and the emerging world of desktop publishing, seemed at the time to advise caution. The most effective method financially and in terms of a graphic designer's skill level was to create the page layout in your favorite application, order the color separations on a high end laser drum scanner from a color house and have them stripped in manually at the print shop. Perhaps one might want to try the adventure of having for-position-only low resolution files created, which would be linked to the high-resolution file stored on the provider's system, then placed, cropped and re-sized in the layout. The final output would then call on the stored files and seamlessly image them into the layout. This seemed only advisable if a large number of color pictures were used in a document. Otherwise the process was deemed to be

too slow and economical only with large documents with lots of pictures. Imaging slides on computer files on a film recorder did not seem to present quite the same issues of shifting tonal ranges, color cast and overall color fidelity.

Things are different now, and those of us who are control freaks and want to "do it all ourselves" or those of us who want to gain more insight in the process of color imaging and color pre-press can do so and keep the process economical. It was heartwarming last summer to design a full color publication with over 200 color images and find out that the combined pre-press and production charges cost only a fraction of what it might have cost in the past. Some of what made this possible were the development of Kodak's Photo-CD technology, faster processing speeds on desktop systems, better desktop scanners and increasingly sophisticated controls on popular image processing applications such as Adobe's PhotoShop™. Finally training seminars and good literature are an invaluable resource, and are currently available from a variety of sources.

In the printing industry color pre-press is rightfully considered to be an art. A unique combination of highly specialized technical skills, experience and acuity of perception is required. Issues of color perception interface with color theory, awareness of particular color gamut biases of input and output devices and the intricacies of keeping monitors properly calibrated. The keystone of the process is human perception. Imaged colors have to "look right" and match what our own memory tells us. These issues become more critical with higher end publications. The important point is that good color printing is becoming more affordable for smaller budgets thanks to the desktop computer and some innovative small run printing technologies.

In our next columns I intend to review some of the technical aspects of color pre-press on the desktop including scanning, tonal range and color correction, color profiles of output devices, elements of color theory, perceived color and affordable color proofing systems. If you have any questions, comments or suggestions on future articles, please feel free to call me at 6-4984. E-mail: beyle001@maroon.tc.umn.edu

In the printing industry, color pre-press is rightfully considered to be an art. A unique combination of highly specialized technical skills, experience and acuity of perception is required.

Getting the Goods on the Federal Government — Using Legi-Slate through LUMINA

Nancy K. Herther, Manager, Integrated Information Center

Legi-Slate

- ✓ Want to check your legislator's voting record? Need to search Federal Register full-text for research into some hot political issue? Need the full-text of a current bill in Congress? Want to get the low-down on some recent debate through a transcript of a press briefing?

Anyone on campus can now get up-to-the-minute information on federal regulations, bills under consideration and other important political data from an important database, which is accessible through LUMINA terminals.

Legi-Slate is an online computer database covering U.S. Congressional and federal regulatory information. It contains status and text of bills, legislative histories, information on members of Congress, voting analyses, transcripts of news briefings and television programs as well as indexing and full-text of the Federal Register.

Limited Hours for Access

The University has maintained an academic contract with Legi-Slate since 1984. When the service became available over the Internet last year, academic subscribers were given extra accounts to facilitate direct student use during evening and weekend hours (when Legi-Slate computers were less busy). The University Libraries make these extra accounts available through public access terminals in the Libraries. The contract permits access to these accounts only from

5:00 p.m. to 7:00 a.m. weekdays and
all day Saturday and Sunday.

Logging In

Access from library LUMINA terminals is very easy:

From the Public Access screens of LUMINA, type 1 for "University Libraries/LUMINA" and press [Enter].

At the next screen, select "Online Databases".

At the next screen, type the menu number for Legi-Slate.

The next screen describes Legi-Slate and gives you information on availability.

Searching Legi-Slate

You can select help for information and guidance if you need assistance using the database. The help screens have tips and shortcuts for searching the database efficiently, as well as brief descriptions of the Main Menu options. The system is menu-based and should be quite easy to use. To stop your search and return to the main menu at any time, type stop.

If you have problems, be sure to check the help screens or ask at the reference desks in the libraries.

The Government Publications Library, on the fourth floor of Wilson Library on West Bank (624-5073), is a federal depository for federal documents. If you need in-depth assistance with your research, you may wish to begin by stopping in at the Government Publications Library to consult with their staff on your project.

You should note that all searches are run on the current Congress or the current year of the Federal Register unless you select Congress from the menu and specify another congressional year to search. To search an earlier year of the Federal Register, select Federal Register from the menu and make your year or volume choice from option 1.

Contents of Legi-Slate

The database contains a wealth of information vital to anyone needing information on federal laws and regulations, decision-making and trends or information on individual legislators. Here's just a sampling:

Bills and Resolutions

Let's say you need information on some bill or resolution currently under consideration in the Congress. The database not only includes full-text of the bills — which are searchable by keyword — but bills can also be located by sponsor, cosponsor, date of introduction, technical terms or 'buzzwords' in the text, by the public laws they would amend or repeal, etc. You can also get the voting records of individual congressional members as well as voting records by the subject of the bills themselves. Public interest group ratings of various legislators are also included. Full-text of the Almanac of American Politics gives good background information, including biographical information on Congress people, as well as detailed

information on each state, commentary on congressional redistricting and other issues of importance.

Committee Information

The database includes files of committee rosters, with data on membership, chairs and other information, full-text of committee reports as soon as they are made available through the U.S. Government Printing Office; meeting schedules of the various committees, subcommittees, etc.; and gavel-to-gavel coverage of committee and subcommittee actions.

And So Much More

And all this is just a start! Whether you have research interests in this area, writing a class report on current events or looking for trends in government financing of higher education and research — Legi-Slate is too important to overlook.

For more information on searching Legi-Slate contact the Government Publications Library (4th floor of Wilson Library, 624-5073) or stop at a LUMINA terminal for your own free 'test drive'.

For a copy of the Libraries' guide, *How to Search Legi-Slate on LUMINA terminals*, call 624-2020 or send your request — including your campus address — via Internet to: nherther@iic.lib.umn.edu.

Communications to the author should be addressed to: Nancy K. Herther, Manager, Integrated Information Center, 7 Walter Library, East Bank; 624-2020; nherther@iic.lib.umn.edu

Legi-Slate Gopher Server

A prototype of a new, Gopher-based version of Legi-Slate is now available for you to try. Developed here at the University of Minnesota, this new version offers a very different search interface, but the same important data. Give it a try. Figure 1 shows information we retrieved. To access this Gopher you can follow this path:

Other Gopher and Information Servers

North America

America

Washington DC

LEGI-SLATE Gopher Service (Prototype)



[Editor's note: since the Gopher client software does not currently support all of the computer file types available on Legi-Slate, some information is inaccessible.]

Figure 1: From Legi-Slate Gopher

Obtained by following this Legi-Slate Gopher path: /Legislation /103rd Congress - Legislation/Bills by Sponsor/Members by State /Minnesota/Rep Martin Olav Sabo/H.R. 2264/Narrative description

Description and status of H.R. 2264,

Omnibus Budget Reconciliation Act of 1993; Agricultural Reconciliation Act of 1993; Student Loan Reform Act of 1993; Veterans Reconciliation Act of 1993; Revenue Reconciliation Act of 1993; Mickey Leland Childhood Hunger Relief Act (Pub. L. 103-66, approved 8/10/93), as of Wednesday, September 29, 1993

The bill was introduced in the House of Representatives on Tuesday, May 25, 1993 by Rep. Martin Olav Sabo (D-MN). At the present time there are no cosponsors of this bill.

The bill's official title stated its purpose as follows:

"A bill to provide for reconciliation pursuant to Section 7 of the concurrent resolution on the budget for fiscal year 1994."

The bill has not been referred to any committee for consideration.

The most recent action on the bill was on Tuesday, August 10, 1993: Became Public Law No. 103-66 (107 Stat. 312).

There is currently no committee action scheduled on this bill.

Also, one other bill has been located that is identical, similar or closely related to H.R.2264:

S.1134 by SASSER (D-TN) — Omnibus Budget Reconciliation Act of 1993; Agricultural Reconciliation Act of 1993; Emerging Telecommunications Technologies Act of 1993; Revenue Reconciliation Act of 1993; Student Loan Reform Act of 1993; Comprehensive Child Immunization Act of 1993

Engineering Services: 625-1595

Price Lists on Gopher



The Engineering Services department sells, installs, and supports a variety of computer upgrade products. The list of products changes often. Currently it includes the following products:

- Memory upgrades for Macs, PowerBooks, PCs, many printers — just about everything
- Hard disks for Macs, PowerBooks, PCs, and Workstations (Sun, SCI, RS6000)
- Apple CPU and printer upgrades
- CDs, keyboards, mice, trackballs, Ethernet boards, and more

Service contract price lists on popular products from Apple, Hewlett-Packard, IBM, and ZEOS are also posted. To find Engineering Services' price lists on Gopher follow this path

Computer Information
 Engineering Services
 Upgrade Products
 Service Contract Prices

Pay by Cash, Check, or Credit Cards



Individuals may now pay for products and services purchased from Engineering Services by personal check, cash, or Visa, MasterCard, and Discover credit cards.

Beware

Don't Drop Your PowerBook/ThinkPad

The wording of the manufacturer's warranty covering your computer products will vary by manufacturer, but will always include language similar to the following:

This Warranty does not apply if this product has been damaged by accident, abuse, misuse, misapplication, or has been modified by unauthorized...

If the display/LCD of your PowerBook, Duo, or any type of notebook, laptop, or portable computer is broken or cracked, replacement costs will not be covered under warranty — even if your computer is only one day old. This damage is also excluded from coverage by all service contract providers, including Engineering Services. The cost of replacing a broken computer LCD (liquid crystal display) can vary from \$300 to \$1000 to more.

Central System News

EQS Software Removed

On March 20 EQS, a structural equations statistical package, was removed from VMS because it was not being used.

Book Center Computer News: 625-3854

You can charge your purchases on your MasterCard, Visa, and Discover accounts.

▼ 30-Day Money Back Guarantee



The Book Center offers a 30-day money back guarantee on all hardware and on any software whose seal has not been broken.



The offers listed here are made to University departments, employees, and students, and are subject to the eligibility rules of the Computer Discount Program.



During Spring, Winter, and Fall quarters the Computer Store in Williamson Hall on the East Bank campus is open Monday-Saturday for these hours • Monday-Thursday 8:30-6:30 • Friday 8:30-6:00 • Saturday 10-4.

Free E-mail Updates

To get product and price change bulletins for the products sold through the Computer Department sent to you electronically, subscribe to the *Bookstore prices* list by sending E-mail to:

request@boombox.micro.umn.edu

Use Gopher for 24-hours Service

Use Gopher to search the Computer Department's database to find out part numbers, prices, and product availability. "Electronic Ordering" options are available at these two Gopher locations:



- University of Minnesota Campus Information
 - Department and College Information
 - Minnesota BookCenter Electronic Desk
- Computer Information
 - Microcomputer Prices
 - Minnesota BookCenter...Electronic Ordering

▼ Macintosh Packaging Change

Most Apple computers sold through the discount program no longer come with a keyboard. The current keyboard prices are shown in Table 1.

Table 1: Current Mac Keyboard Prices

Part	Description	Price
M1242LL/A	Adjustable	\$125
M0487LL/AS	Keyboard II (standard)	70
M0312S	Extended Keyboard II	150

▼ New Power Macintoshes

Although the Power Macs retain the feel of the rest of the Macintosh product line, they are very different "under the hood." They come with a different microprocessor called a PowerPC. That RISC processor is discussed in more detail below. Table 2 shows the Book Center's current discount prices.

The Power Macintoshes work with your old software because they come with a translator that can emulate the original Macintosh microprocessor; so investments you've made in Macintosh software probably will be OK. (The emulator is in the Power Mac's ROM.) In addition, some Power Macs come with special software — SoftWindows — that lets the Power Mac run DOS and Windows software. With this software the Power Macs emulate an Intel 386/486 microcomputer.

Test Drives

The Microcomputer HelpLine in 152 Shepherd Labs has all three models of the Power Macintosh available for test drives.

Individuals must add 7% sales tax to all prices listed here and on Gopher. Departments do not pay sales tax.

Expansion and Display Features

These Power Macs support 4MB, 8MB, 16MB, or 32MB 80 ns SIMMs, the 72-pin variety. You must install SIMMs in pairs of the same size. (All 8MB configurations come with 8MB soldered onto the logic board.) As the model numbers increase so do the expansion slots.

All three models come with the standard SCSI port and ADB port. They also come with two serial ports that can be used with Apple's GeoPort Telecom Adapter.

All the models also comes with DRAM video support and a 45-pin videoport on the back. (To connect this to compatible 15-pin monitor plugs, you can purchase an adaptor cable; only the 6100/60 comes with this adapter in the box.) The 7100/66 and 8100/66 come with a second monitor port. The 7100/66 also comes with 1MB of VRAM, expandable to 2MB. The 8100/80 comes with 2MB of VRAM, expandable to 4MB. Both these VRAM cards come with a 15-pin connector so you can plug in a monitor.

With DRAM based video the three models support 16-bit on 14-inch monitors and 8-bit on 16-inch monitors. On the 7100/66 and 8100/80 with VRAM based video the support is greater: 1MB, 26-bit on 16-inch monitors and 8-bit on 21-inch monitors; 2MB, 24-bit on 16-inch monitors and 16-bit on 21-inch monitors; 4MB, 24-bit on 21-inch monitors.

All three models comes with a monitor port that supports an Apple AudioVision display. The 7100/66 and 8100/80 models come with dual monitor support; so these Power Macs can also support a standard monitor. Table 3 shows some monitor configurations, although all Apple monitors will work with the Power Mac. While monitors from many other companies will also work with the Power Mac, the monitors may require special software. We expect that some monitors will be incompatible. Be cautious when purchasing peripherals for the Power Macs.

Emulation versus Native

Translating instructions frequently slows down whatever process was begun. Since the Power Macintoshes emulate the original Mac microprocessor, some applications will run slower. The power of the Power Mac is unavailable to those applications. The difference in the Power Macs from previous Macintoshes also means that some software won't work unless it is upgraded. If you must have high performance now across many applications, you may want to stay with high end Quadras.

When an application has been optimized to run on the Power Mac it is called a native application, and it will run much, much faster than older versions of the software.

Table 2: Power Macintoshes
with built-in AppleTalk and Ethernet Connections and stereo sound input/output ports

Part	Model/ Speed	Memory/ Hard Disk	Max RAM/ SIMM Slots	Other Features	Discount Price
M2196LL/A	6100/60MHz	8/160	72MB/2	-	\$1,570
M1878LL/A	"	8/250	"	CD	1,975
M3078LL/A	"	16/250	"	SoftWindows software *	2,170
M2738LL/A	"	8/250	"	CD/AV Video in/out	2,240
M2464LL/A	7100/66MHz	8/250	136MB/4	1MB VRAM	\$2,500
M2465LL/A	"	"	"	" and CD	2,740
M3077LL/A	"	16/250	"	SoftWindows software *	2,910
M2467LL/A	"	8/500	"	CD/AV Video in/out	3,435
M1884LL/A	8100/80MHz	8/250	264MB/8	256K memory cache	\$3,510
M1880LL/A	"	"	"	" and CD	3,735
M3079LL/A	"	16/500	"	" and SoftWindows software	4,390
M2293LL/A	"	"	"	" and CD/AV Video in/out	4,675
M2297LL/A	"	16/1000	"	" and CD	5,090

* SoftWindows users may want to purchase a 256K cache card, PN M2385LL/A for Power Mac, for \$247

Table 3: Power Mac: Sample Monitor Configurations

Monitors/Displays	Part No.	6100/60	7100/66	8100/80
Apple Color Plus 14"	M2346LL/A	32,768	32,768	16.7 million
Apple AudioVision 14"	M5814LL/A	"	"	"
Mac 16" Color	M1044Z/A	256	"	"
" with additional VRAM		na	16.7 million	na

Faster machines are important for people with advanced computing needs and ambitious plans, for example combining sound and moving videos for multimedia applications.

Why RISC?

The Power Macintosh computers are built around the PowerPC, a microprocessor that Apple jointly developed with IBM and Motorola. (Previously Macs used Motorola 68000-series chips.) Here is a statement from Apple about why they are moving from CISC (complex instruction-set computing) to RISC (reduced instruction-set computing) technology.

RISC processors streamline the internal workings of computers. Whereas traditional (complex instruction-set computing, or CISC) processors contain a wide variety of instructions to handle many different tasks, RISC processors contain only those instructions that are used most often. When a complex instruction is needed, a RISC processor builds it from a combination of basic instructions.

RISC processors are designed to execute these basic instructions extremely quickly. The performance gains achieved by speeding up the most-used instructions more than compensate for the time spent creating less-used instructions.

To date, RISC technology has been used only in systems designed for raw computational power. For example, most engineering workstations and commercial database servers use RISC processors. These computers have generally been based on the UNIX operating system and have therefore been more difficult to install, learn, use, and maintain than personal computer users have come to expect.

Apple believes that now is the time to bring RISC technology to personal computing. One important reason is that the performance improvement of successive CISC processors is leveling off, whereas RISC performance is continuing to grow. At the same time, RISC will be manufactured in high enough volumes to make it cost-effective for the personal computer market.

Software Upgrades

Most existing software will work on the Power Macs. However, since optimized software is necessary to realize the power of the PowerPC, some people are concerned about upgrading their old software immediately. In many cases that will not be possible, but companies such as Microsoft, Aldus, Adobe, WordPerfect, and Wolfram have announced that they've rewritten applications to take advantage of the PowerPC.

Ben Waldman, manager of Macintosh technology says: "We're seeing significant speed improvements in the versions of Word and Microsoft Excel for the Power Macintosh." Microsoft is expected to release these optimized versions this summer or fall and to offer free Power Mac upgrades to those who purchased Word, Excel, PowerPoint, and Office after April 1, 1994.

Some speed comparisons and other software news is available in the *UPI News* section of Gopher. For more information on the PowerPC, you can search through March news.

Hardware Upgrades

Upgrades will be available for many Macintoshes, as shown in Table 4. The differences between the processor upgrade card and logic board upgrade are shown in Table 5. Many people who upgrade will want to add more RAM; Apple recommends adding 4MB to your existing configuration.

Table 4: Available Power Mac Upgrades

Macintoshes	\$1630 Logic Board 6100/60* (with Power Mac Display Adapter)	\$2045 Logic Board 7100/66 * (with 1MB VRAM)	\$2965 Logic Board 8100/80 * (with 2MB VRAM)	\$577 Processor Upgrade Card
Quadra 900, 950				Y
Quadra 840AV			Y	
Quadra 800			Y	Y
Quadra 700				Y
Quadra or Centris 660AV	Y			
Quadra or Centris 650		Y		Y
Quadra or Centris 610	Y			Y
Mac IIvx, IIvi, Performa 600		Y		
* AV upgrades	\$2070	\$2315	\$3155	na

Table 5: Differences Between Power Mac Upgrades

Feature	Logic Board Upgrade	Processor Upgrade Card
• a PowerPC 601 microprocessor with FPU and 32K cache	Y	Y
• increased speed	equals corresponding PowerPC model	doubles the speed of the CPU
• RAM	8MB (retains existing RAM)	-
• Other features	PowerPC telephony and speech capabilities	1MB on-board level-2 cache and 4MB Power PC ROM
• installation	by technician	do it yourself in PDS slot

Logic Board Upgrade

The logic board upgrades will provide a complete upgrade to all the Power Mac's features. Apple recommends that you have at least a 160 MB hard disk for the Mac you want to upgrade.

The logic board AV upgrade allows you to add support for video input and output. If you add an internal CD-ROM upgrade, you can add a CD-ROM drive. Different CD-ROM adapter kits are available for: 6100/60 -6100/60AV, 7100/66-7100/66AV, and 8100/80-8100/80AV.

Processor Upgrade Card

The card upgrade option may be popular for people who want to run Power Mac software but be able to switch back to their old processor for that critical software that does not perform adequately on the Power Mac. To switch between the PowerPC 601 and '040 you can use a control panel. However, you must also shut down the Mac and wait ten seconds before you restart the machine. The card is also chunky. The March 14 *MacWeek* reports that its heat sink intrudes on the adjacent slot and the card overhangs the NuBus connector by about 3 inches. The overhang means you cannot use any NuBus slot that's in line with the PDS slot.

▼ Apple WorkGroup Servers

If you purchase an Apple WorkGroup Server 60 or 80 between

March 7 and April 30, 1994

you can qualify for a special \$500 discount on your purchase of a new PowerPC logic board upgrade — when it becomes commercially available. This logic board upgrade must be purchased no later than

October 31, 1994

by the same customer who purchased the qualifying Apple WorkGroup Server 60 and 80 products. All configurations of the Apple WorkGroup Servers 60 and 80 qualify for this special program.

Table 6 has samples of the latest Apple WorkGroup Server price changes.

Table 6: Sample Apple WorkGroup Server Prices

Part	Features	Discount Price
AWS 60		
M1780LL/B	8/230	\$2145
M1781LL/B	8/500CD	2895
B1602LL/A	Lab Bundle	3485
B1604LL/A	InfoRetrieval Bundle	4375
AWS 80		
M1784LL/A	8/500	\$3245
M1677LL/A	8/500DAT	4610
M1681LL/A	16/1000DAT	5480
M1685LL/A	16/1000 DAT/CD	5715
B1603LL/A	Lab Bundle	5205
B1605LL/A	Info Retrieval	6090
<i>The Special Upgrade Program is for AWS 60 and 80</i>		
AWS 95		
M3074LL/A	32/2000 DAT	\$9165
M3075LL/A	48/250/2000DAT	8980

How the Program Works

- Purchase an Apple WorkGroup Server 60 or 80 between March 7 and April 30, 1994.

- Apple generates \$500 Discount Offer Letter for a PowerPC Logic Board Upgrade and sends to customers who purchased an AWS 60 or 80 between March 7 and April 30, 1994.

- Purchase a PowerPC Logic Board Upgrade by October 31, 1994 to take advantage of the \$500 discount.

- Customer takes Discount Offer Letter to campus reseller at time of purchase and receives \$500 discount off purchase of PowerPC logic board upgrade for AWS 60 or AWS 80.

- Although Apple WorkGroup Server PowerPC logic board upgrades are expected to be commercially available in summer 1994, this timing is subject to change.

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 - At 9600 Telecomm supports V.32 and MNP level 5 error correction.
 - On campus ADI-100 and ITE setups use 626-2400.

LUMINA: 300/1200/2400 625-6009
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