

BBS

THE
BULLETIN
BOARD
SERVICES
MAGAZINE

October 1995

US \$3.95
Canada \$4.95
70992-35460

are
you being

Client/Served?

Databasing
WIP Menuing
100% Windows



Worldgroup Internet Server
Galacticomm

IRC
Web BBS
Hypermedia

NEW!
Online
Lexicon

WWW Sharewaring
Telnet BBSs bbs.notebook
100s of BBSs to call



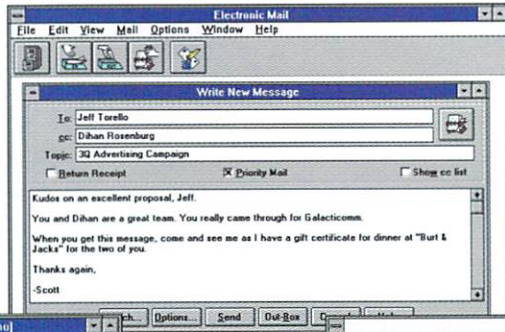
RealAudio
Audio-on-demand for the Int
RealAudio Player and Studio.
Now your web browser can play audio on demand, without waiting for long file transfers. Download Mac or Windows versions for free. Then get the Studio, to create your own RealAudio sounds.

Be heard - 76

abc



Worldgroup Manager: Users access and navigate your system with Worldgroup Manager, a Windows client. With the click of an icon, users are connected and logged in to your system.



E-mail: Users can easily manage their mail with their own in box, out box, multi-folded filing cabinet, address book and more.



► *Main menu: Launch your own online service, right out of the box, with Worldgroup. Offer users e-mail, forums, multi-user teleconference, polls, files, Internet access and more.*

► *Forums: Create up to 10,000 group message areas or Internet newsgroups for users to exchange ideas on a variety of topics. A map even helps users track conversation threads visually.*



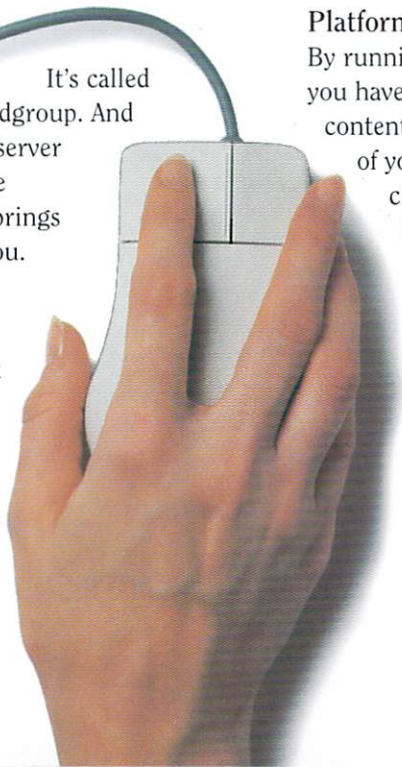
Open Your Windows to the

Worldgroup™. Bring the World a Click Away.

The newest, smartest generation of online software isn't coming from Microsoft. Or CompuServe. Or America Online. It's coming from you — and Galaticomm, the creator of The Major BBS®.

It's called Worldgroup. And it's a client/server online software platform that brings the world to you.

Think of Worldgroup as the bridge that links the people and resources within your company to the world



beyond. With the click of an icon, you can network your entire business world — customers, stockholders, prospects, field staff, distributors, vendors, the press and more — together online!

Worldgroup. The World's Most Powerful Client/Server Online Platform.

By running your own online service, you have 100% control over the content, presentation and revenue of your system. And Worldgroup's client/server approach makes it easy for anyone to use.

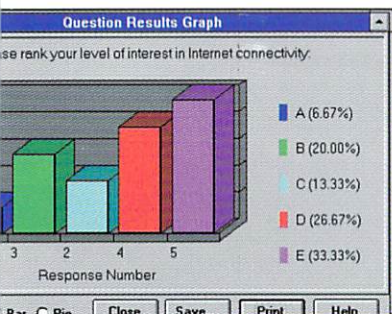
The client runs under Windows on your users' machines. Its multi-threaded architecture lets them do all sorts of cool things simultaneously. Like download files in the background, while reading new mail. Or auto update

new versions of applications transparently. Local caching, "look ahead" and client-driven intelligence maximizes performance at 2,400 or 28,800 bps.

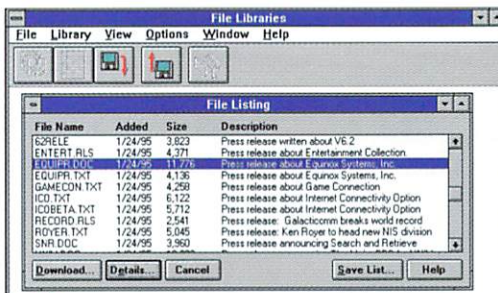
You can customize all the icons and menu pages out of the box. With Worldgroup's multimedia features, you can have a "splash" screen with a BMP image and a WAV or MIDI file, graphic menu backdrops, real-time video and more.

There's even a "launch" client/server utility that downloads and launches files for your users, such as Adobe Acrobat files, Word documents and PowerPoint presentations, in one easy step — while the user is online.

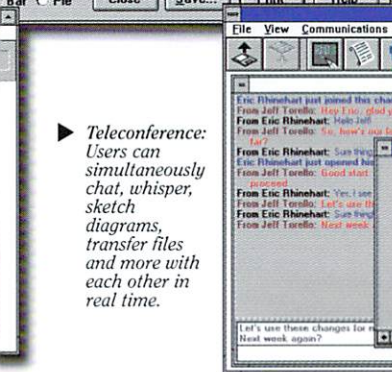
You can use Visual Basic and C to create your own custom client/server applications (we provide source code). Or, just plug and play dozens of add-on applications from our network of Independent Software Vendors.



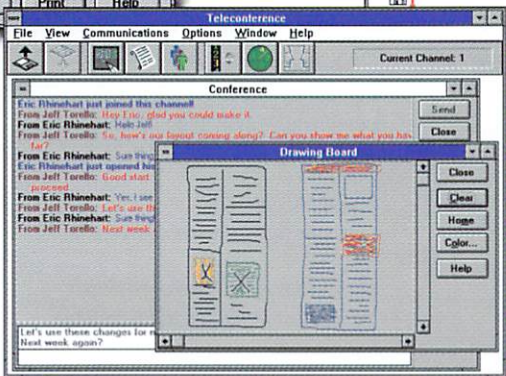
Polls and Questionnaires: Offer marketing surveys, suggestion boxes, applications forms and testing, to name a few. Results are immediately tallied and can be viewed as exportable bar graphs or pie charts.



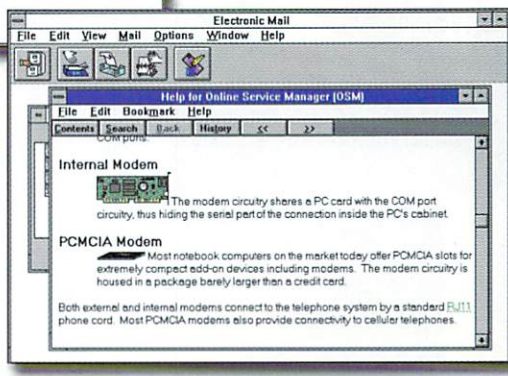
File Libraries: Users simply tag the files they're interested in and select the download icon. Files can be downloaded in the background while users enjoy your other services.



Teleconference: Users can simultaneously chat, whisper, sketch diagrams, transfer files and more with each other in real time.



Help: Users will quickly grasp the advantages of Worldgroup's friendly Windows interface, with hypertext online help at every window.



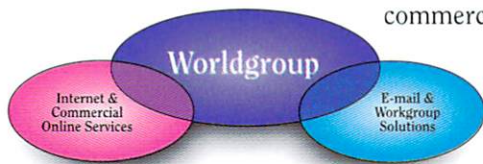
World of Online Computing

The server runs on a single 486 or Pentium DOS machine and can handle up to 256 users online at once. Locks and Keys™ security provides airtight access control.

Full system accounting and reporting is built in. And in addition to client/server users, you can still support ASCII/ANSI/RIP terminals.

Worldgroup. Beyond the World-Wide Web.

Worldgroup's client/server interface works just as well over the Internet as it does with dial-up modems. We're talking full-fledged interactive applications, not just documents. In addition, ftp server and basic WWW server capabilities are also supported.



Worldgroup provides a communication model that brings the inside world and the outside world together in a secure, productive environment.

But it doesn't stop there. You can make your service accessible via modem, serial ports, TCP/IP, Novell LAN, ISDN and X.25 networks such as CompuServe and SprintNet.

Worldgroup. The Best of Both Worlds.

Worldgroup gives you the best of workgroup software and commercial online services.

E-mail, group discussion areas, file libraries, teleconferencing, surveys and more are all built-in. You can gateway to existing message systems via MHS or UUCP. And that's just the beginning.

Worldgroup. A World of Resources... A Phone Call Away. As a Galacticomm customer, you'll also receive excellent documentation

and world-class support. In every way, we will work with you to make your online venture a success.

So open your Windows to the powerful, smart new Worldgroup of online computing today. Call your Galacticomm dealer or call us at 800-328-1128 (or 305-583-5990

outside the U.S. and Canada). You can also send e-mail on the Internet

to sales@gcomm.com and access our home page by pointing your Web browser to <http://www.gcomm.com>.



WORLDGROUP™
Online Interactive Software

GALACTICOMM
Bringing your vision online



WINDOWS 3.1, 3.11, NT & WINDOWS '95

CD-ROM SUPPORT • V.FAST 28.8K MODEM SUPPORT • CALLER-ID CAPABLE • OFF-LINE E-MAIL CREATION • AUTOMATIC FILE RESUME • DRAG & DROP FILE MANAGEMENT • SIMULTANEOUS BI-DIRECTIONAL PROTOCOL • PROPRIETARY ERROR CORRECTION • TRUE PLUG 'N PLAY ABILITIES

Scalable graphics with embedded TrueType Font technology

Instantaneous image previews

Simultaneous uploading and downloading

Powerful plug-in interface allows users to play games, access databases and navigate through Internet gateways

Online WYSIWYG messaging sub-system. Change typefaces, formatting and colors, all within the same message!

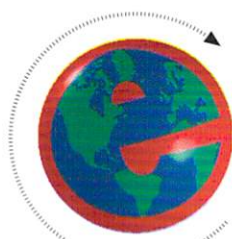
Multitasking allows users to download files, compose and read messages, plus preview images... all while participating in group chat.

Excalibur BBS

Excalibur is the bulletin board system taking the world by storm. It was the first system of its kind to run entirely under Windows™ and continues to set the standard of measure. Because Excalibur is built around an accelerated bi-directional protocol, users can upload and download files, chat with other users, and compose messages ... *all at the same time!* Utilizing our proprietary graphical interface, users are able to design their own menus and screens incorporating object oriented graphics, bitmapped graphics, and TrueType fonts. This means no two Excalibur based systems are the same! Advanced error correction and data compression offer reliability and

convenience to all users, even those without error-correcting modems.

As for expandability, Excalibur offers true Plug 'N Play abilities. Imagine doors that are both hassle free and easy to use. By using Excalibur's *Application Programming Interface (API)*, third party developers have created everything from Internet gateways and databases to shopping malls and interactive games. The possibilities are endless. Modem into Excalibur HQ/USA at **918.496.8113** or call 800.EXCAL.BBS (800.392.2522). In Canada, modem into Excalibur HQ/Canada at 905.508.8872. Find out what users worldwide are heralding as *"the next generation in BBS software"*.



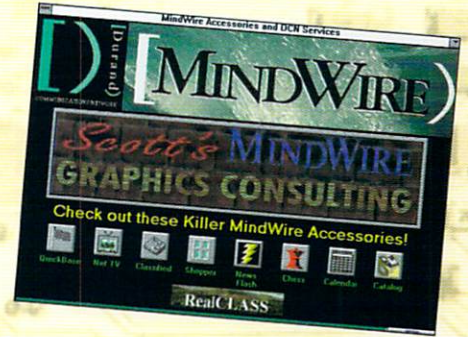
excalibur
COMMUNICATIONS, INC.

BBS MAGAZINE CONTENTS

VOLUME 6, NUMBER 10
OCTOBER 1995

FEATURES

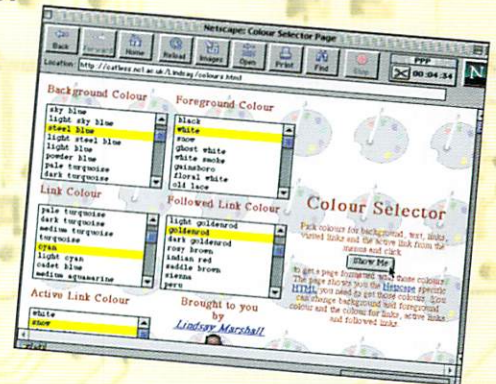
- 10 **Worldgroup Internet Server**
Galacticomm's Internet Solution
- 16 **Wiring Your Mind**
Durand's MindWire: Beyond the BBS



page 16

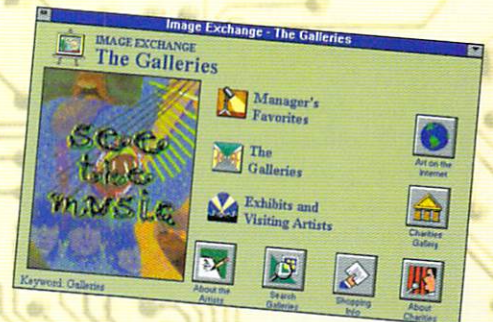
COLUMNS

- 26 **Breaking the HTML Barrier**
Webwise by Dave Kramer
- 30 **Prodigy Unveiling... New Prodigy**
The Big Boards by Terry Rossi
- 34 **The GII In Perspective**
NetLaw by Shari Steele
- 36 **Dear Delilah**
by Deanna Warren
- 40 **bbs.notebook**
by Steve Janas
- 44 **A Modern Proposal**
Technoraves by Lazlow Jones



page 26

- 46 **Sharewaring**
by Maria Langer
- 50 **Hot Files**
by Hank Hurteau
- 52 **Lynx-ing to the Web**
Commodore Connections
by Gaelyne R. Moranec
- 56 **Motorola's LifeStyle 28.8**
Modems by Modem Mage



page 30

DEPARTMENTS

- 4 **readme.txt**
- 6 **Newswire**
- 59 **Ask Tess**
- 60 **The A-List**
- 67 **Netted Boards**
- 72 **Classified Ads**
- 76 **Online Update**



page 10



page 34



readme.txt

Internectivity

In this issue we continue following the progress of two client/server software products: MindWire from Durand Communications, first announced in our July issue, and Galacticcomm's encompassing new Worldgroup Internet Server.

Client/server (where the caller uses the client software and the sysops the server) is unquestionably the rage these days, with many BBS software publishers getting in the game full-on with ringing bells and screaming whistles — and BBSing is all the better for it. From a caller's perspective the graphics are great, the functionality fluid and the fun level has been upgraded to a place it's never been.

And that doesn't even cover Internet "connectivity" — where the big news waits.

BBS publishers who have seen the light are seizing on the opportunity to offer callers simple bridges to what the Internet has to offer, while letting them maintain a footing on their local (or distant), interactive bulletin board. And now things are being attacked from the other side, too, providing Web surfers who've been doomed to bounce from one site to another for years, a place to land and find substance, mobility, other people — a place to find life.

Check out MindWire on page 16 and WIS on page 10.

Are you looking for love online? Ask the person who wrote the book: Deanna Warren (aka Delilah).

After becoming an advisor to numerous followers on America Online and other venues, Delilah wrote *Love On Line* (a humorous guide to chatting online) last year and is scheduled to have another title published by Random House in early '96. Now she's bringing answers to questions like "Can true love be found in cyberspace?" to our pages. Her advice and musings begin on page 36.



Another new entry is a lexicon for newcomers to bulletin boarding. If you've found yourself cursing *BBS Magazine* for using terminology you're just not familiar with, check out Newswire for the

Online Lexicon and fill your head with Baud, Bits and BPS.

Still perplexed? My address is right there below.

Next Time: You might have seen author John Hedtke's story in our September issue where he offered loads of tips on how to best get your BBS up and running. Now comes the juicy part: making it profitable. In November Hedtke will be back with scores of solid ideas and road-tested examples on how to 'open your BBS for business' successfully.

Also next month, look for a report on what might be the largest BBS service bureau in operation. If you need a BBS but don't want the maintenance, pick us up again in about 30 days.

Rick Robinson
editor@bbsmagazine.com

BBS

THE BULLETIN BOARD SERVICES MAGAZINE

PUBLISHER

Richard Paquette
publisher@bbscd.com

ASSOCIATE PUBLISHER

John P. Carcione
carcione@bbsmagazine.com

EDITOR-IN-CHIEF

Richard W. Robinson Jr.
editor@bbsmagazine.com

WEST COAST ADVERTISING SALES

Wayne J. Fields, 714.770.2955
advertis@bbsmagazine.com

DESIGN AND ILLUSTRATION

Terry Wilson

ART DIRECTOR

Jeanne Lorenzo

CONTRIBUTING WRITERS

Tess Heder, Hank Hurteau, Steve Janas, Lazlow Jones, Dave Kramer, Jacqui Kramer, Michael A. Kuykendall, Maria Langer, Modem Mage, Gaelyne R. Moranec, Mike Robinson, Terry Rossi, Shari Steele, and Deanna Warren.

PRE-PRESS PRODUCTION

Beth Tomasello

NEWSSTAND CIRCULATION DIRECTOR

William A. Townsend

EDITORIAL/ADVERTISING OFFICES

BBS Magazine
Callers Digest Inc.
701 Stokes Road
Medford, NJ 08055
609.953.9110 Main Office
609.953.9110 Advertising
609.953.7961 Fax
609.235.5297 BBS

Advertising: advertis@bbsmagazine.com
Subscriptions: subscribe@bbsmagazine.com

SUBSCRIPTIONS	USA	CAN/MEX	OVERSEAS
1 Yr. (12 issues)	\$36	\$60	\$120
2 Yrs. (24 issues)	\$60	\$100	\$220

All subscriptions prices are US Dollars only.

SINGLE COPY DISTRIBUTION

Warner Publisher Services, Inc., NY, NY

Call our order HOTLINE at 1-800-822-0437 8am-4pm EST, Mon-Fri, and charge your subscription to your Visa or MasterCard, or send check or money order, in US dollars, payable to Callers Digest, Inc.

Entire contents copyright ©1995 Callers Digest, Inc., all rights reserved. Material in this publication MAY NOT be reproduced in any form without written permission from the publisher of BBS Magazine.

BBS Magazine (ISSN #1055-2812) is published monthly by Callers Digest, Inc., 701 Stokes Rd., Medford, NJ 08055. Callers Digest, Inc. is not responsible for the opinions expressed by contributors. Questions and comments are welcomed. Unless otherwise instructed, we assume all rights to letters, articles, or other communications sent to Callers Digest, Inc. as unconditionally assigned for publication. Material not accompanied by a stamped, self-addressed envelope will not be returned. Uploads are accepted only in ZIP format at "The Livewire BBS," 609.235.5297 (All V. Everything modems).

POSTMASTER: Please send all change of address (with old label and new address) to: Callers Digest, Inc., 701 Stokes Rd., Medford, NJ 08055.

PRINTED IN UNITED STATES

REALTIME SPORTS



Now Planet Connect brings realtime data within the reach of every BBS. Our sports data is delivered to your BBS via satellite as the news is created, so its always the latest most current information. Your users can learn about important sports events and news hours before they appear on TV or make the newspapers.

No other sports information source can match the completeness of Sports Connect. Players, teams, leagues, and more are completely covered with over 4 megs of data daily. Scores are reported as the games and events are in progress.

A variety of doors are available for most brands of BBS software and the system is designed to be fully automated.



Our satellite data systems also provide the latest files and nets plus Internet Usenet Newsgroups. Our 19,200 baud system can deliver 150 megs of compressed files daily. If you already own a satellite dish you can get started for only \$299.00..



Weather and sports are now available, Stocks and News are coming soon.

We're changing the way Sysops think.



Instead of thinking of their BBS as a place to store and distribute information that may be hours or days old, the progressive Sysops that have Planet Connect can now deliver data in real time. Highly desirable data such as Sports, Weather, News, Stock Quotes, and more can be obtained from Planet Connect via satellite.

These Sysops are finding many new users who want to obtain information as soon as it happens. People that need time sensitive data will come to you, since you'll be hours ahead of newspapers, and other media. Whether at work, school, or at play your users needs only a modem and computer to quickly locate the exact data they want.

With satellite delivery, your BBS can be almost completely automated to provide services that only the big on line services have traditionally provided. Planet Connect negotiates with quality data providers to obtain data at excellent prices, and passes these savings on to you. You'll be amazed at how inexpensive a satellite real time feed can be.

Contact Planet Connect Today.



Winner of the Dvorak "Best Product of the Year Award"

Contact: Planet Systems, Inc.
1065 Cosby Highway
Newport, Tennessee 37821
Voice: 615-623-8300
Fax: 615-623-8751
Info@NS1. Planetc.Com
BBS: 615-623-8111
FIDO: 1:3615/50



New PCBoard Capitalizes On 32-Bit OS/2

Clark Development Company, Inc. has released its PCBoard v15.22, the first 32-bit, multi-threaded, native OS/2 BBS software package to hit the shelves.

The OS/2 version of PCBoard's popular software exploits the multi-threaded architecture of OS/2 to increase performance, while using fewer system resources than the DOS version. Both platforms are identical in functionality and features, allowing them to co-exist on the same network as part of the same BBS system. (Clark has also released a DOS version of 15.22.)

Its built-in features like Automatic Installation, Shared Secret Logons, PCBMail, and an easy upgrading process puts a good deal of power on the sysop's desktop.

"PCBoard has a long-standing reputation for being extremely fast and stable software," said Steve Klingler, vice president of Clark Development Company, "but even we were surprised at how much faster the native OS/2 version runs."

The OS/2 version includes all of the functionality PCBoard for DOS is known for, plus several advantages not found in the DOS version, including:

- Less memory usage, as all nodes share the same executable code.
- Ability to run more nodes on a single PC than with the DOS version.

NEWS

- Support for Doors and file transfer protocols in both DOS and OS/2.
- Easy configuration of multiple nodes on a single PC.
- Choice of which nodes to run on-screen and which to "hide."
- All new PCBoard Control Panel for OS/2.
- Native OS/2 Presentation Manager application.
- Launch Pad to start all nodes at boot-up or when selected.
- A "Run on Connect" feature that creates nodes on-the-fly to handle higher than normal traffic over the Internet (requires VModem v1.50).

- Node Monitor to view the current status of all or a group of nodes and bring any node to the foreground by simply clicking it.
- Watchdog to automatically recover if a node goes down (even in a Door) by terminating that process and restarting it.
- Page Notification if any user attempts to page the sysop, even from a node running on another computer.
- CDC's automatic installation capability that allows a new sysop to select from predefined system configurations for corporate, sales, tech support, and special interest/hobby definitions.
- The Shared Secret Logons function ensures that PCBoard logins are

Net 'Yellow Pages' on Disk

Looking for an updated and fairly lengthy list of Internet addresses — offline? Take a look at what Microforum's got.

Dubbed the Internet Connection, it's software that pairs a friendly menu system (sounds, AVI movies) with "the most comprehensive list of Internet addresses available today," so say its makers. Yes, there are loads of Web, Gopher, FTP and Usenet addresses packed inside, but when we're talking about the ever-expanding Internet, any

land-locked directory is sure to be lacking.

The menu system lets users search for any Internet

address, and then subsequently access the information via a single-step connection. Then they can send

the address right to clipboard in Windows for pasting into an appropriate client.

"In addition to creating a menu system with unparalleled easy-of-use, our expert software development team spent long hours researching and compiling this exhaustive list ["thousands"] of Internet addresses," said an enthusiastic Aldo Baiocchi, producer of Internet Connection.

"We are positive that the Internet Connection is one of the most valuable resources ever created for users of the

Net, and are very confident that a broad range of users will find the program to be an indispensable tool for their Internet activities."

Available on 3.5 floppy disk and CD-ROM, the Internet Connection requires two megs of RAM and Windows 3.1.

Find it at CompUSA, Computer City, Software Etc. and other stores, or directly from the company at 416.656.6406 or 800.465.2323. Retail price: \$19.95 (U.S.), \$27.95 (Canada).



WWW

absolutely secure by preventing crackers equipped with a TCP/IP packet "sniffer" to look for password information. The MD5 Shared Secret algorithm allows callers to log into the system using a code which cannot be decrypted, but can only be used to confirm a "shared secret," such as the password.

Also included with PCBoard for OS/2 is PCBMail, Clark's simple version of Microsoft Windows' email package. In addition to support for Internet email and Usenet newsgroup conferences, PCBMail includes Hot Keys, a new mail notification prompt, automatic login, and a user-friendly message editor.

CDC has packaged numerous special sale configurations for the new release, which became available at the end of August.

For more information on 15.22 or CDC's other add-ons, including the PPL Compiler and the PCBoard C/C++ Door Developers ToolKit, call Clark Development Company at 801.261.1686 or 800. 356.1686. For a free copy of the fully operational two-line demo version of PCBoard, log into Clark's Salt Air BBS, at 801.261.8976. Telnet 199.67.41.2.

Internetting Excalibur

Excalibur Communications, Inc., makers of the Windows-based Excalibur BBS, has announced three new Internet gateways. With the creation of Mortimer Online!'s "FlipSock," J.M.P. Programming's

"Portico," and Excalibur's own TCP/IP connection, Excalibur sysops will finally be able to plug their users directly into the Net.

As Excalibur puts it "Excalibur systems have been used for some time as on-ramps to the information highway. Now, with Excalibur's TCP/IP server software, they are places to visit."

With Excalibur's reasonably simple set-up and rather easy use, the addition of Internet connectivity essentially places the world in your desk. On the user's side, logging in just means using a domain name or IP number instead of a phone number.

The Internet connectivity eliminates the awkward Windows limitation of eight connections per computer, as some channels can now be dedicated to conventional communications ports and the rest can come through the Internet. User nodes can be



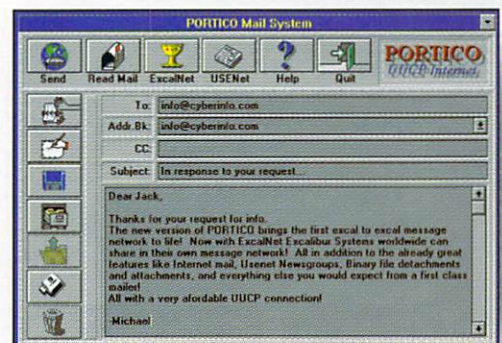
FlipSock: Using free Excalibur Client access software, a user without Internet access can call an Excalibur BBS and by pressing a button gain Internet access.

designated dial-up, Internet, or both.

All of Excalibur's features (including information, graphics and games) are available via the Internet access. For callers lacking their own Internet service provider, Excalibur can also be used as the basic TCP/IP connection to the Internet.

A call to a local (Netted) Excalibur BBS using FlipSock (a Winsock 1.1 compliant interface that allows callers to connect directly to the Internet while still in Excalibur) can be a bridge to all other Excalibur systems worldwide, the company points out.

After a user activates FlipSock, any Winsock 1.1 compliant Internet tool may be used. World Wide Web browsers, like Netscape or Mosaic, can be run side-by-side with Excalibur's media. Mail and news readers (Eudora, Pegasus, Free Agent, News Express) as well as IRC, Telnet, Gopher or any other Winsock Internet application may be used.



Portico: The users command center for Portico, allowing quick email or news posting.

Portico, distributed by CyberSpace HQ, is quickly becoming their most popular Internet solution for Excalibur sysops. With Portico, sysops can offer users Internet email and newsgroups within the standard Excalibur interface.

CyberSpace's own worldwide conference system, ExcalNet, is also provided.

Portico offers an interface where users can utilize a variety of email options: Email viewing (both online and off), file attachments, printing, quoting, and use of advanced indexing for easy manipulation. Other features include carbon copy, auto UU-decode,

CONTINUES...

address book, signature files and full mailing list support.

For the FlipSock, Portico or Excalibur's TCP/IP connection, sysops need a dedicated Internet connection that, for performance reasons, should be an ISDN or a T1 connection. And Excalibur assures "there should be no problems with compatibility by using a dialup PPP or SLIP connection."

Ideally, sysops will run all common Internet daemons and servers (mail, WWW, FTP, Finger, etc.) on a separate server with the Excalibur host computer(s) networked to this server. A domain name registered with Internic is also recommended.

For more information about FlipSock, Portico, Excalibur's TCP/IP connection, and the Independent Software Vendors listed above, contact

Excalibur Headquarters at 800.EXCAL.BBS, or dial the demo system at (V.34): 918.496-8113. Email: excalibur@excalbbs.com.

Web: <http://www.excalbbs.com>

Telecomm Vet to Lead Concentric

Concentric Research Corporation, the self-proclaimed "fast-track technology provider," has appointed Henry R. Nothhaft as its new president and CEO.

The 25-year telecommunications veteran previously held the position of president and CEO of David Systems, as well as executive positions at DSC Communications and GTE Telnet. Nothhaft specializes in designing and implementing high growth marketing strategies for leading-edge technology

and technology service companies.

Concentric, now four years old, recently received a \$10 million infusion of venture capital from Kleiner Perkins Caufield & Byers and Goldman, Sachs & Co. and is relocating its headquarters



from Michigan to Cupertino, CA, "to be close to technology leaders, technical talent and financing sources."

"Concentric is doing for electronic bulletin boards and other online content providers what the big broadcasting companies did for TV at its infancy, only we are going one better," said Nothhaft. "The broadcasting companies linked local stations and provided them with programs to show. At first the programming was fairly limited. We provide low-cost access — for as little as \$7.95 a month. But in our case, right from the start, we offered subscribers a selection, choice and level of convenience that didn't become available until the advent of cable television."

Concentric does this through BBS Direct, which offers callers direct network access to over 30 of the biggest boards around, and dial-out access to 200 smaller boards. Members also have access to the Internet and Web.

Concentric offers 100 dial-in points-of-presence (POPs) and 26,000 local exchanges.

For more information on the Concentric Network call 800.745.2747.

Online Services: There They Grow Again

Here we go again.

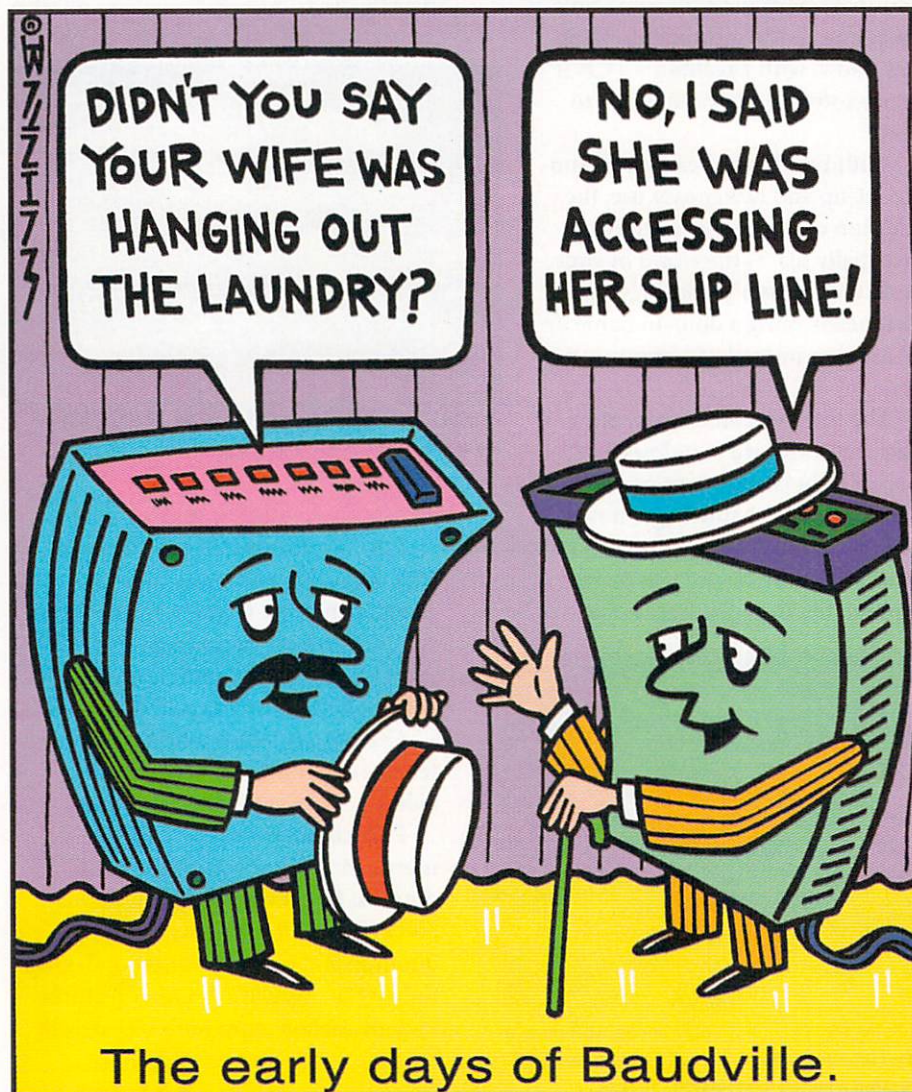
According to Information & Interactive Service Report (IISR) consumer-oriented online services showed tremendous growth (again) in the second quarter of this year, jumping to 8,556,800 subscribers in June from 7,303,300 at the close of March — a 17 percent increase.

To put it in another perspective,

CONTINUED ON PAGE 70

Offline

by John Baynham



The Pier

TM

THE HOTTEST CD-ROMS ON THE MARKET!



SHAREWARE

Catch The Waves

of The HOTTEST CD-ROMs

The Pier Exchange CD-ROM Publishing Inc. is proud to present the HOTTEST and most CURRENT dated shareware CD-ROM's ever released. The Pier Shareware CD-ROM's are a series of sequential updated disks containing the latest Shareware programs. All files on the discs are TRULY the most CURRENT files available on the market at the time of their release. To top it off there are NO duplications of files between discs!

We have set the standards for Shareware CD-ROM's in regards to the quality of files one comes to expect on CD-ROM's, but now we are going to raise the standards for CD-ROM access software. Introducing for the first time on The Pier Shareware CD-ROM, ThePier v3.0 High Performance CD-ROM Access Program. This is not just another retrieval program, it's in fact the WORLDS FASTEST CD-ROM retrieval software!

"NEW" The Pier Shareware #5 - \$29.95 "NEW"

650+ Megs of Shareware files
<ASP> directory
100% files dated 1994 S.D.C.!(
Smart Date Checking in place)
ThePier v3.0 The Worlds FASTEST
Retrieval Software!!!
Database is ACCESSIBLE from the CD-ROM.
Minimum HD requirement ONLY 600K.
All files have been scanned for
viruses with the latest McAfee SCAN.
Full GAP, PCBoard, Spitfire, Wildcat, TBBS!
Remote Access FILES.BBS Support.
Less then 1% duplication between
The Pier Shareware 1, 2, 3, & 4.

Windows Applications
Windows Games
Programming Languages
Programming Tools
SVGA GIF Pictures
Educational Programs
Games / Entertainment
Sound Blaster / MIDI
DTP / Clipart
Bible
Medical / Health
Word Processing
Laser/Printer Utilities
BBS Programs / Doors
Communications
Legal
OS/2 Programs/Utilities
And Much, Much, More!

GUI Graphical Interface - EGA VGA
Full Mouse Support
Pull-down Menus
File Comment Field Entries
Worlds FASTEST Retrieval Software
Multiple File Viewer Configuration
Will Not Modify AUTOEXEC.BAT
Keywords Search
File Name Search
File Name Within Archive Search
Copy / Extract Files "On-The-Fly"
Built-in Default Text File Viewer
Can Run In Text Mode
Blows Competitors Out of The Water

Discs Sold Separately:

The Pier Shareware #2 \$15

The Pier Shareware #3 \$20

The Pier Shareware #4 \$25

Judged #1 Shareware CD-ROM

Buy All Four For Only

\$ 69.95

Please add \$6 for S&H (\$9 for overseas orders). Check and Money order must be in US funds and drawn on US bank. Make check payable to: THE PIER EXCHANGE INC., 80 W. HAZELTINE, KENMORE, NY 14217

International Orders, FAX, or Information 716-875-4931 BBS 716-875-3130



ORDRES ONLY
1-800-438-9734

30 Day "MONEY" Back Guarantee!!!

WORLD INTERNET

Hot on the heels of last spring's Worldgroup from Galacticomm, the client/server reformation of the company's popular The Major BBS software, comes the Worldgroup Internet Server. It's Galacticomm's effort to fit all the elements needed for a successful online/Internet system onto one PC.

As Galacticomm sees it, currently all the pieces just don't fit together in a seamless fashion: "You need one solution to let people in your company get out to the Internet; you need another solution to put up your own Web site; you need another to deal with messaging (both within and without your company); and, you need still another solution for remote client/server applications for dial-up and ISDN users."

Now, with the Worldgroup Internet Server (WIS), all these applications are packaged for out-of-the-box setup — an answer to Worldgroup sysops who have been toiling with complex and expensive configurations, and those experiencing limitations with the first version of the company's Internet Connectivity Option (ICO).

"We've been working on Internet development for nearly two years now and have built up a lot of experience," said Scott Brinker, Galacticomm CEO. "The Worldgroup Internet Server is very much the culmination of thousands of man hours of Internet-related work here."

With the WIS, sysops who fork over the \$1,995 can offer callers access to everything they want: email, newsgroups, home pages, and secure client/server connections.

Sysops can even "mirror" their services through the Web, making for what's as close to a "Web BBS" as has been developed.

The WIS is actually new technology embedded with the existing Worldgroup, and offered in the form of Galacticomm's next generation of the ICO: version 2.0.

According to Galacticomm, the new setup has been vigorously tested, beginning with code reviews and redundancy

checks between three different programming groups inside the company.

"This careful approach from the design phase onward is what made the

one from novices to UNIX gurus to make certain that the software is both easy to use and technically accurate to RFC and real-world specifications."

Galacticomm has also run WIS through the "Megapus Test Lab" — a 256-line system used to benchmark performance of software, simulating multiple T-1's worth of data communications activity. This offers a comprehensive test track for the system and, says Galacticomm, WIS has passed the tests without difficulties.

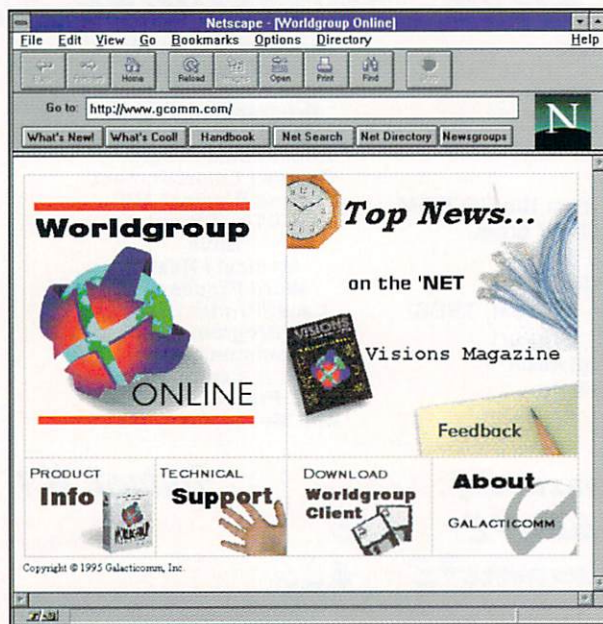
"And as the new components have become available over the past months, such as SMTP, NNTP, rlogin, etc., we have gone ahead and released them for free to all of

our Internet Connectivity Option customers. The reports from the field have been nothing but excellent," Brinker said.

Together

As stated, all the elements of the WIS

Galacticomm puts the



initial Worldgroup release so stable, and we have applied those solid engineering practices to the Worldgroup Internet Server as well," Brinker said. "All of the components are tested on our own Demo System and made available to wide beta. We work with every-

GROUP SERVER

Net on your desktop

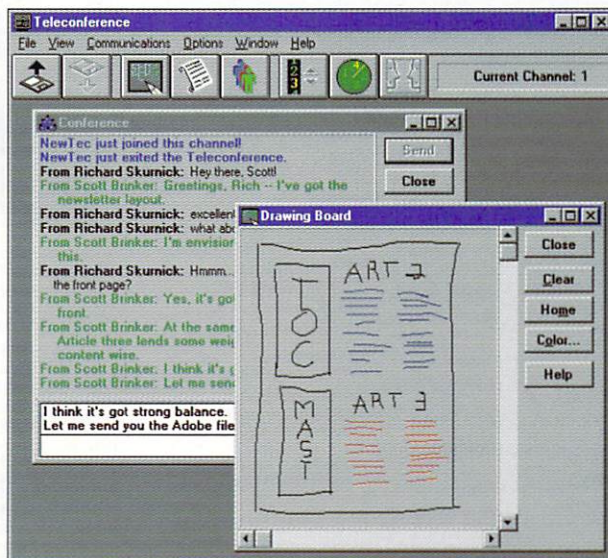
are meant to work in harmony. The following are members of the WIS chorus:

- **Internet Access Server:** Dedicated, Dynamic and Proxy SLIP/CSLIP/PPP accounts.

- **Internet Messaging:** Full SMTP email, NNTP newsgroups and POP3 — a la Windows 95 Universal Mailbox — mail delivery, with Worldgroup client or an all-platform mail package like Eudora. This gives everyone with an account on the WIS access to email and newsgroups, given the sysop grants that access. And a charge can be assessed on a per-message or per-attachment basis for outgoing messages and files. With the Worldgroup client for Windows, a user can manage all mail through an address book, whether online or off.

- **Web Server:** Forms and image-map support, as well as VRML and Java; a CGI-like gateway for a virtual “Web BBS” — See below.

- **Client/Server Applications:** Email, Forums, File Libraries, Teleconference (private and public) with a graphical real-time “drawing board,” and Polls



The Worldgroup Teleconference as it appears in Windows 95.

and Questionnaires, Menu Tree Hierarchy — see March '95 *BBS Magazine* for full review.

- **Internet Applications:** Telnet, rlogin, FTP, Finger, and IRC clients and servers.

The harmony comes in examples like WIS's ability to route Net news-

groups right into the client/server discussion area.

Some of this might seem a little overwhelming to sysops, especially the new ones. But Galacticomm appears to have addressed this by crafting the software for a cross-market audience (consumer services to electronic commerce for business organizations) with the intention of giving them the ability to go online the same day they buy the software.

“The beauty of this solution is that it doesn't require a network engineer or a staff of maintenance personnel to run it,” assures Brinker. “You don't have to hassle with four different computers for four different components of your Internet presence. You don't have to learn strange new operating systems.”

But what about those individuals who want to capture a market as an “Internet provider” and just offer an on-ramp? WIS provides pass-through SLIP/CSLIP/PPP (dedicated and dynamic) and handles all user tracking and accounting for the services.

“It's very easy to offer monthly or yearly Internet accounts to people, to restrict the amount of time they can use per day, to analyze system usage, etc.,” Brinker said, “and at the same time, you're very much able to provide local content and true client/server capabilities to your users. We call this a ‘value added’ Internet provider because you go beyond the passing of raw TCP/IP data into the role of addressing customer needs and applications.”

Web BBS

The WIS Web server carries inherent API “hooks” that permit the server applications to catch incoming HTTP requests. They are then scanned for URLs and used to launch Web agent code on the server, automatically generating HTML pages in response.

What this means is now Worldgroup client/server apps are accessible to the vast Web surfing public.

Look for file listings, databases and document searches to be available over

CONTINUES...

the Web, as they are likely the best suited. Someone using a Web browser could search through a Worldgroup file library and, through Hypertext links, switch to other libraries and download (FTP) files.

Group that with SMTP, POP3 and NNTP, says Galacticomm, and you've got a bulletin board system on the Web.

"Adding support for Web browsers to access the server is just the next logical extension. We call this "universal access," and Worldgroup is the only product of its kind to support it," said Brinker.

The WIS Web BBS includes a set of HTML forms and server-side Web agents that prompt the Web user to enter a User-ID and password, and essentially log on to the server (though he will actually be recognized by the system as a "virtual" user marked online and updated with each hit, until a pre-set amount of time passes).

MD5 authentication is used during the log-on procedure for verification and security, and then continues to verify through subsequent hits during the session. Locks & Keys comes into play here as well, as the WIS utilizes the authentication process to reference a user's status for restricted access to pages within the Web BBS.

Galacticomm is including sample Web BBS applications for log on, sign-up, file libraries and teleconference chat. That last one is rather interesting, for with the recently developed Java language, the Web BBS will be offering real-time messaging between Web BBS users. Furthermore, notes Brinker, through the fall of this year the company will take further advantage of the CGI API and Web BBS by opening it up to independent software vendors (ISVs), or third-parties, who are

charged with taking Web-enabled Worldgroup applications to a higher level.

"As far as the future of the Web BBS... the power of things like Java dovetail particularly well with our architecture," Brinker said. "There's going to be a convergence of a lot of this technology over the next six to 12 months, and Worldgroup applications are going to be particularly well-suited to this future environment."

At presstime, Galacticomm said the design of the Web BBS was still in flux, due to ongoing development, and sub-

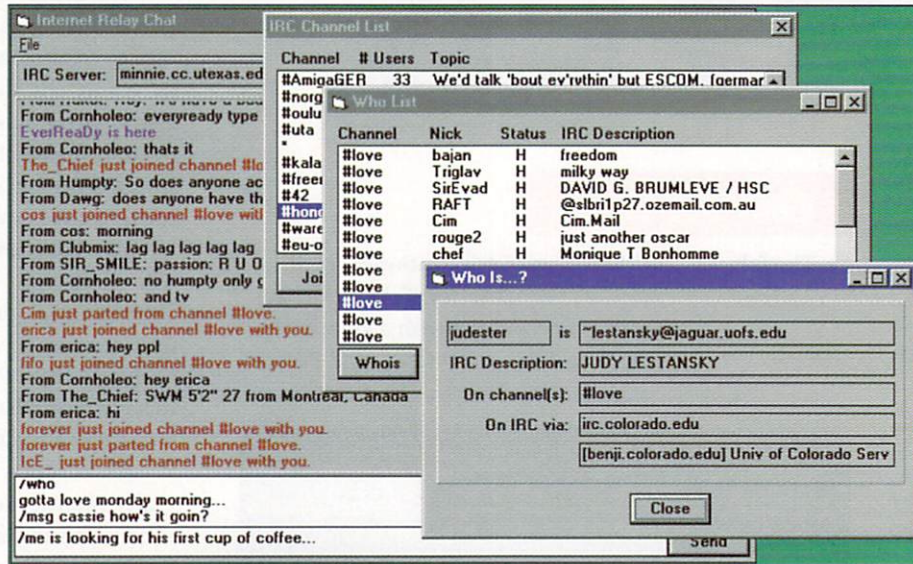
tion. If they aren't smoothly connected — or ideally one and the same — then you're just not going to be effective in your electronic ventures," Brinker said. "Electronic commerce is... about people communicating together in an open, yet secure environment. It's about linking customers with support personnel, prospects with sales people, engineers with field testers, production managers with distributors."

IRC

Built in to WIS is IRC (Internet Relay Chat), the method users around the

world communicate in a real-time environment within subject-oriented groups of a varied nature. Galacticomm integrated this facility in order to "keep it simple and easy for regular users."

The idea is to allow callers to connect to one system that pops up a friendly menu from which they can activate email, files libraries and Internet apps such as IRC —



Galacticomm has integrated IRC support right into Worldgroup.

ject to some modification.

Brinker emphasizes the new WIS is also a nice fit for application in the business world (a hefty chunk of Galacticomm's clients).

Since WIS is an enabling technology, it has the potential for quickly bringing companies on to the Internet, while adequately providing the necessities of functionality (like teleconferencing) within a graphical, multi-user environment.

Obviously Brinker supports this, saying he feels WIS will be especially effective in electronic commerce because it "successfully bridges the gap between the internal world of a company and the outside world at large.

"It's not enough to have your workgroup solution be something separate from your electronic commerce solu-

nearly simultaneously.

"These can be running in parallel, using our multi-threaded communications engine, and it is all presented seamlessly to the end user," said Brinker. "The user doesn't have to learn a whole new program for using IRC... it just works off the menu like his other client/server apps."

Brinker continued, saying, "it's unfortunate that most other vendors are taking an 'oh, NT supports it' or 'just get RAS (Remote Access Server) going in parallel' position because that just doesn't tie the pieces together. And it's going to leave a lot of sysops spending a lot of late nights hassling with low-level networking issues — and even then it's still not going to hang together cohesively, for them or their users."

Architecture: Open

Galacticomm often speaks highly of "open architecture," and the company's position on this has certainly not changed with WIS.

Sysops can plug in a great deal of add-on applications from its ISVs, which usually involve a server-side agent that plugs in as a DLL and a Windows executable written for the Worldgroup engine that gets automatically distributed to users upon connection. Existing apps include online shopping, multimedia databases, document searching and multiplayer games.

And Galacticomm supplies a Client/Server Developer's Kit that works with Visual Basic and Borland C++. Sysops are also provided with the source code for modification so new applications can be developed.

As for the Windows 95 development, the forthcoming Visual Basic 4 and OCX extensions will aid in creation of native 32-bit applications, and the Galacticomm Custom Device Interface (GCDI) API allows developers to utilize third-party hardware and connectivity solutions.

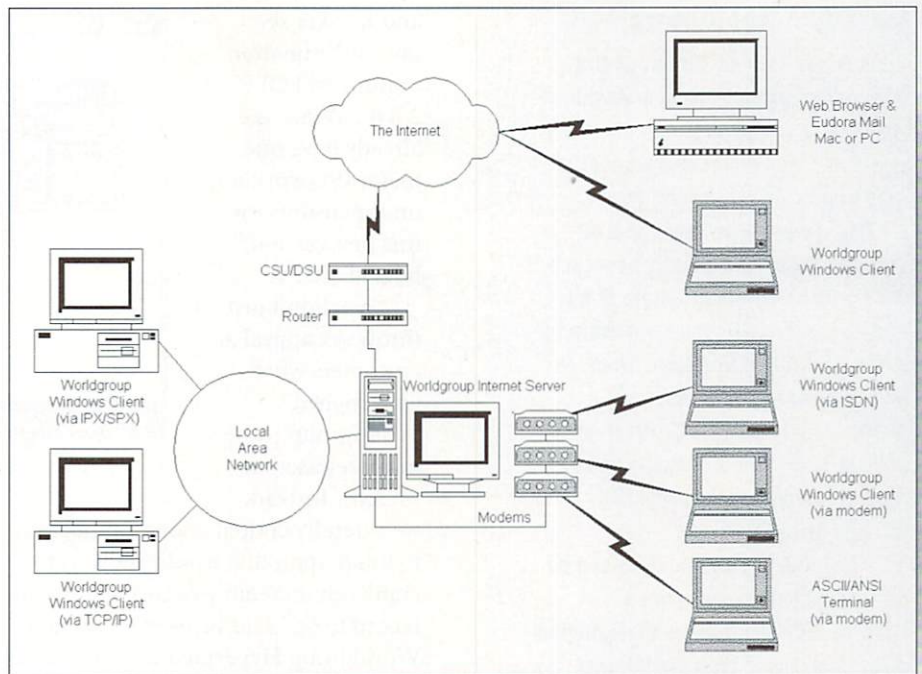
Workgrouping

Obviously the best way to operate an open online platform is to offer as many methods of access as possible. Some workgroup environments limit the means of access to, say, local area networks or simple dial-up. With WIS, almost all existing methods are supported: dial-up, LAN, ISDN, Internet and X.25. And each offers the same graphical interface.

The hardware involved in wiring all this together is standard (Ethernet cards, Digiboards, ISDN terminal adapters) and recognized by the software.

Hypermedia

At presstime, Brinker said the Galacticomm team was working 16-hour days to unveil at BBSCON (in late



A sample diagram of a Worldgroup Internet Server shows how the system interacts with dial-up modem, ISDN, LAN and Internet users using the Worldgroup Manager client, a Web browser or regular terminal programs.

August) what they referred to as the new "Worldgroup Hypermedia Environment."

The so-called WHE essentially consists of two components: a Windows design tool and a new run-time client/server menuing application.

Brinker said the design tool will let a sysop create any arbitrary 'hypermedia page', with background images, icons, buttons, buttons with images, clickable

hot regions, scrolling text boxes, real-time announcement tickers, and list boxes.

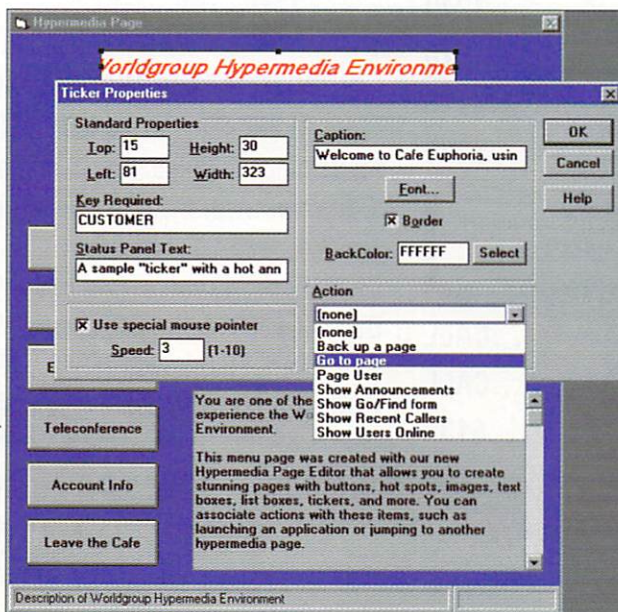
"All of these items can in turn be associated with 'actions', such as launching an application, displaying a file, or jumping to another hypermedia page," said Brinker. "We're talking about a really cool object-oriented design tool here. You can use just about any image format you want, including JPEG, so the resulting pages can really scream down thin pipe bandwidth."

On the client side, the new menuing application replaces the old icon-only menu system (something many have called for) with hypermedia pages.

"You can replace the toolbar with your own, or hyperlink to toolbar-type actions. As hypermedia components are delivered from the server, a progress bar tracks your progress at the bottom of the screen, while the items are displayed upon receipt," said Brinker. "This gives you a 'progressive' display feel, akin to the Web, but for true client/server media technologies."

Galacticomm plans to give Hypermedia away for free, beginning at BBSCON.

The whole thing is expandable as well, so down the road Galacticomm



Welcome Net Surfers

What would I say to numerous Net newcomers using Netscape/Mosaic who only know the realm of the Web?

I'd say that you have a wonderful road of discovery ahead of you.

That's why we've taken this all-encompassing connectivity approach. It's a very powerful paradigm to let people explore with their browsers in a non-committed first look. Then, as they want to advance into more dedicated and potent client/server applications, they can easily do so through the Net as the need and interest arises.

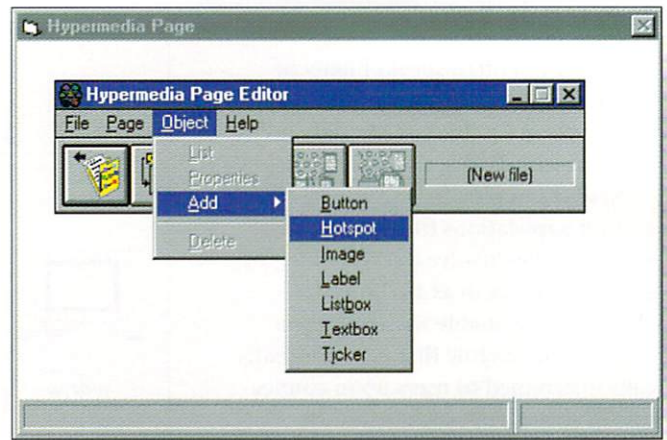
The bottom line is that you can do really cool stuff over an open client/server architecture that you just can't do over the Web. As Internet technology continues to rapidly advance, you're going to see more and more programs taking advantage of the Internet as a global TCP/IP network.

Scott Brinker, Galacticomm

and Brinker see plug-in animation options and OLE 2.0 for WIS. "We already have one major ISV working on expansions for this first version," he said.

"We didn't just throw sex appeal at customers when we designed Worldgroup [originally released in March]. Instead, we carefully crafted a solid foundation to build upon that would allow us to crank out incredibly robust features in record time," said Brinker. "This new Worldgroup Hypermedia System is just the first of many awesome things to come."

The Worldgroup Internet Server comes as a special bundled package from Galacticomm, and includes Worldgroup with a 20-user license, ICO 2.0, and the Dial-Out add-on



option for \$1,995. Additional User Six-Packs can be bought to increase the license count to 256 simultaneous users on a single machine.

Existing Worldgroup sysops just need the ICO 2.0 and Dial-Out to be upgraded to the WIS. Existing ICO 1.0 owners can receive a free upgrade to 2.0.

For more information, contact Galacticomm at 800.328.1128. Call the demo system at 305.583.7808, or Telnet to gcomm.com. ■■■■

BBS Software & Hardware

This Month's Specials

MajorBBS, 6.2, 2-line	\$155
We Carry MajorBBS Add-on Modules	CALL
TBBS 2.3m, 2-line w/irh QSO	\$249
QSO	\$79
Interchange	\$116
GTEK BBS 550 w/cables	\$395

Call our BBS 209-498-6533 for product information and to download our complete catalog!

Digiboards, GTEK, CD Disks	CALL
Digiboard PC/8 with 16550's	CALL
RIPaint from TeleGrafix	\$139
Q-Modem Pro for Windows	\$69

Visa, MasterCard & AmericanExpress Accepted
P.O.'s Accepted - C.O.D.



Wildcat! ♦ "The World's Most Popular BBS"

Wildcat! BBS Single Line NEW VERSION 4.1x	\$78
All Versions of Wildcat! 4.1x in Stock	Call
Wildware! wwBirthday, wwVerify, wwNewUser	Call
wcCODE, wcGATE, wcPRO	Call
Game Pack \$49 value, (ordered w/Wildcat!)	\$10
DesqView386 Multi-tasking w/QEMM	Call
4 Port Serial Card, with 16550 UARTs	Call
Digiboard PC/8e, w/cable (use w/Wildcat! IM)	Call

BBS Technologies

209-498-0200

P.O. Box 4290 ♦ Fresno, CA 93744 ♦ Fax 209-237-0206

ACCEPT THE INEVITABLE, SWITCH TO SYNCHRONET.

Communications Experts Agree:

**Supra Corp., Connect Magazine, OfficeMate Software, Trans-Med Corp., United States Air Force
ZyXEL Communications Corp., Memorex Telex, Electronic Frontier Foundation, ViewSonic Corp.**

Experienced and first-time BBS operators around the world are discovering Synchronet multinode BBS software and how it can make their job easier and more enjoyable. We know you don't want to be left out, so we're inviting you to take a personal firsthand look at the best BBS software in the industry.

Message network connectivity, user interactivity, file transfers, CD-ROMs, and doors are all seamlessly integrated into Synchronet without requiring expensive add-ons, custom programming, or additional hardware. Multiport intelligent and non-intelligent boards, as well as FOSSIL and generic int 14h drivers, are supported at no additional cost.

Options and features that you would normally expect to pay extra for, like multinode chat, split-screen private node chat, caller ID security, fax-receive support, RIP menus, module/shell compiler, PostLink, FidoNet, and QWK networking - are all included free with Synchronet. Internet, order processing, fax-on-demand, and match making options are also available.



You can even retain the user information, message areas, file areas, menus, and the look-and-feel of your old BBS software.



Whether you're running a single-line hobby BBS or a colossal multi-line entertainment system, Synchronet will meet or exceed your expectations. But don't take our word for it. Download the free 20-user demo version today!

Synchronet® BBS

Multinode Bulletin Board System Software

Undeniable Value

1 Node License	\$ 99
2 Node License	\$ 149
4 Node License	\$ 199
8 Node License	\$ 299
16 Node License	\$ 399
250 Node License	\$ 499
Baja™ Compiler	FREE
Add'l Local Node	FREE
Technical Support	FREE
C/C++ XSDK	FREE

Node license upgrades are available for the difference plus 10%.
Minor revision upgrades can be downloaded free of charge.



Technical innovations such as real-time LZH message base compression, routed point-to-point QWK NetMail, ARS™ Security, HyperAllocated message bases, hierarchical message, file, and program areas, as well as 32-bit DOS and OS/2 utilities are simply not available - at any price - with other packages.

Digital Dynamics®

P.O. Box 501 Yorba Linda, CA 92686
(714) 529-6328 Voice
(714) 529-9721 fax

Download the free demo version:

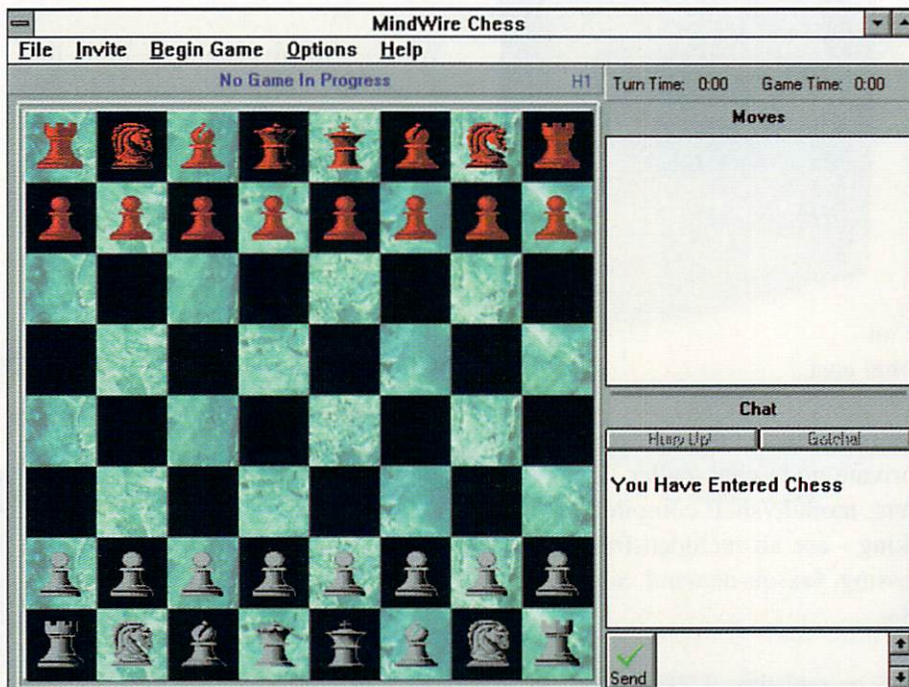
14.4k BBS (714) 529-9525 FidoNet 1:103/705
28.8k BBS (714) 529-9547 FidoNet 1:103/706
ftp.netcom.com (/pub/sb/sbbs)



DCN Support System main menu. MindWire WIP menus do not have to be bland icon-only screens. All forms of hot areas, scrollable text windows, and picture icons can be aspects of a menu.



by David Wolfe



Chess for MindWire. The Chess game for MindWire allows two online players to go at it head to head. If the users have pictures attached to their user files, the pictures are displayed in moveable dialog boxes. Players can chat with each other via the lower right chat area.

In the very near future, telecommunications as many in the BBS market know it will change immensely, from the familiar paradigm it once was into a sleeker, much more versatile and friendly environment. Many newcomers are making advances into the online world, driving this movement forward. And one of those at the front lines is the young Durand Communications Network.

ring Your Mind

Durand
Communications
pushes
the
client/server
paradigm

The company recently followed its line of communications and online database products with MindWire: the culmination of all of its past effort and its hoped-for launchpad to across-the-board communication in the future.

The latest trend in telecommunications is the migration from terminal/host (the old paradigm) to client/server. If you're not familiar with this concept, it's rather simple to understand: *c/s* software design leverages the power of BOTH the host and the client, thus minimizing the data which must be transferred between two computers. Client/server online packages require that the end user have special client software to connect to the service in question. America Online and Prodigy are two examples of commercial online systems that are client/server in nature. The end user must have the AOL or Prodigy client application to connect to the service. Traditional telecommunication packages like Procomm, Telix and Qmodem will not work with these systems.

These days, several BBS vendors are working hard to produce *c/s* versions of their software. Some are going at it half baked, creating pseudo "clients" which

users can use to call in and get client-side looking graphics, while other vendors are going at it full force and forsaking the old fashioned text-based side of telecommunications altogether. Those going the pseudo client route are doing so because of the huge effort involved in completely rewriting their existing BBS software to be truly *c/s* in nature.

MindWire is one of the few online packages that has tackled the issue of *c/s* from the ground up. I hesitate to refer to MindWire as a BBS package because it really isn't. It has BBS features, true, but was designed to go well beyond the traditional BBS limitations of DOS and terminal/host software design. MindWire opens up an entirely new arena for online interaction. On the other hand, if I simply compare MindWire to existing BBS packages, I'm not necessarily overwhelmed by its BBS functionality.

At presstime (in late July) MindWire was a version 1.x package. And though most experienced buyers of software are leery about version 1 releases, for a first version (soon to be updated, BTW), MindWire is surprisingly powerful and versatile for what it

is and does. Basically a Windows-based package, both the client and the server software run under Windows or Windows NT (unlike Worldgroup by Galaticomm, for instance, where the server is a DOS-based application and only the client is Windows based.) This complete Windows environment is both positive and negative depending on where you stand, and what sort of online system you wish to run with MindWire.

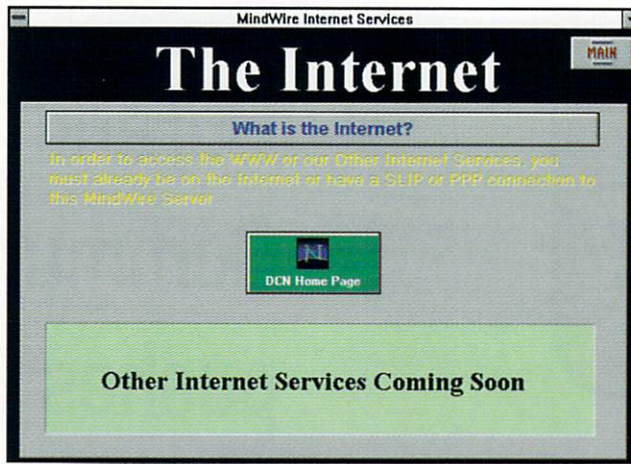
The ultimate goal of DCN is to develop the premiere MindWire server operating on Windows NT for Pentiums (or Windows NT operating on the DEC Alpha). Currently the MindWire Server operates on Windows 3.1, 3.11 and Windows NT. Version 1.5 of the server will have two flavors, a 16-bit and native 32-bit NT specific version. DCN is operating an alpha version of MindWire NT now, but this is not anticipated to be released until Fall. The obvious advantage of this platform is MindWire's inherent ability to utilize all of Windows' existing features like OLE (Object Linking and Embedding) and ODBC (Open

CONTINUES...

Database Connectivity) to provide true client-end Windows operation and interaction with the server side. MindWire's major strength is its leverage of Windows NT, and its tight integration with large-scale databases.

If the focus of your online system is or will be providing online multimedia database access to users, customers or business clients, MindWire is the clear choice above all other systems.

Another of MindWire's strengths is its ability to leverage the Windows NT Internet connectivity features. Indeed, MindWire is primarily designed to be used as an Internet server package, although it still has the ability to provide dial-in access on two levels. MindWire allows modem dialup via SLIP or PPP to an NT Server or to DCN's FILEX Server. While FILEX modem access is recommended when you operate the MindWire Server on standard Windows 3.1 or Workgroups, DCN recommends the RAS (Remote Access Service) built into NT Server for SLIP or PPP dialup, for more than eight modem connections per PC.



The MindWire Internet on ramp menu. Users can 'Web out' to the World Wide Web from a MindWire server if they are currently connected via a SLIP connection. Future versions of MindWire will permit pass-through SLIP to standard dial in users as well.

A negative aspect of being an exclusive Windows application comes in the loss of all DOS-level accessibility. Being from the old school of telecommunications as I am, I hate to lose DOS-level access to any online system I run. No DOS Doors can be used under MindWire, for instance, and DCN has no plans to incorporate them.

Still, I can't really blame the company, as I have said the world seems to be going to true c/s systems. It's just a hard pill to swallow, but one I think all of us sysops will have to take with a spoonful of sugar.

Beyond the BBS

Even though MindWire cannot truly be called a BBS package, it does support many traditional BBS features like Messaging, File Areas, Email, Chat, etc. MindWire's implementation of these features is very good. However, you may not find some of the advanced features in MindWire that lie in the long-established BBS packages. Features like transferring individual files out of archive files, adding external transfer protocols (not needed with true client/server packages), QWK offline mail features, questionnaires, flexible security, and so on. However, MindWire is strong in Internet and database features. The ancillary things will be added later, as

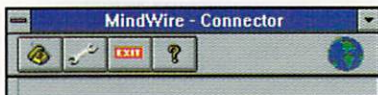
the core MindWire system is perfected.

MindWire is extremely flexible in its menuing approach since it uses a menu scripting language called WIP — the Window's Interface Protocol. Like its DOS "counterpart" RIP (Remote Imaging Protocol), WIP is a compact script language that sends instructions on menu generation to the remote side for menu building, and not the actual menu itself, as you find with ASCII and ANSI.

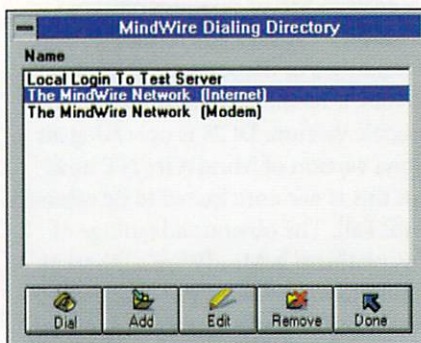
WIP is a great menuing protocol and comes with an easy Windows design utility called the WIP Builder. WIP can have imbedded 24-bit graphics, mouse fields, sound bytes, jumps to other WIP menus, API calls, scrolling text boxes, and so on. RIP 2.0 also has most these features, but will require a good deal of adaptation by existing DOS-based BBSs to utilize them.

It is important to note that several BBS vendors are working to build in Enhanced WIP support such as Powerboard 2.0 and eSoft's tbbs. Since the MindWire client runs under Windows, the graphical and sound abilities are already there.

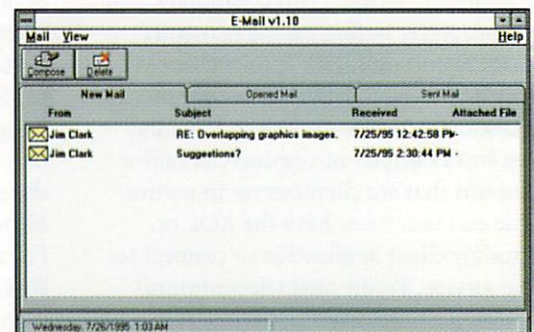
MindWire is comprised of menus and applications, and as discussed above, menus are created through WIP. Applications are created using any OLE 2.0 compliant Windows toolkit. When a user is presented with a WIP menu, he can do one of two things, 1) go to another menu or 2) launch a client application. When a user wishes to start an application, MindWire automatically detects whether he has the required application and component files. If a



The MindWire Connector bar. This is the main interface for the MindWire client. Clicking the left most icon (the phone) will pull up the dial out dialog box.



The MindWire Connector can dial out via a modem or utilize a current WinSock connection to connect to a MindWire server.



The main MindWire Email application, showing I have two new messages waiting for me. MindWire users can attach small pictures of themselves to their user files. These pictures in turn are attached to messages, are shown during chat, and used in many other MindWire applications.

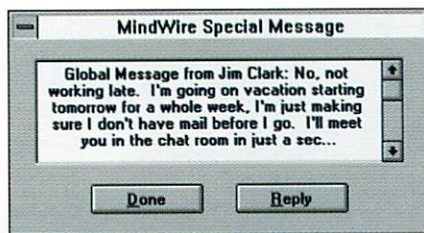
user does not have the required files, MindWire will automatically transfer the files, install and run them. For example, if you enter the Public Messaging area, MSMSG.EXE is executed on the client side. The server side only relays data to the client as requested. This shared processing of tasks is intended to increase overall performance of the system, thus making the MindWire server a true data server.

Since MindWire was developed to make use of ODBC (Open Data Base Connectivity), any ODBC compliant database engine can be utilized by MindWire to serve data to a client. These engines include Oracle7, MS SQL, Sybase SQL, MS Access, dBase, Paradox, Fox Pro, etc. To make the link even easier, DCN has created the MindWire Database API which allows anyone to develop client side applications using any development tool they wish, and these client applications will link to any ODBC compliant SQL engine seamlessly. The magnitude of database access harnessed by MindWire makes the platform a very open ended system.

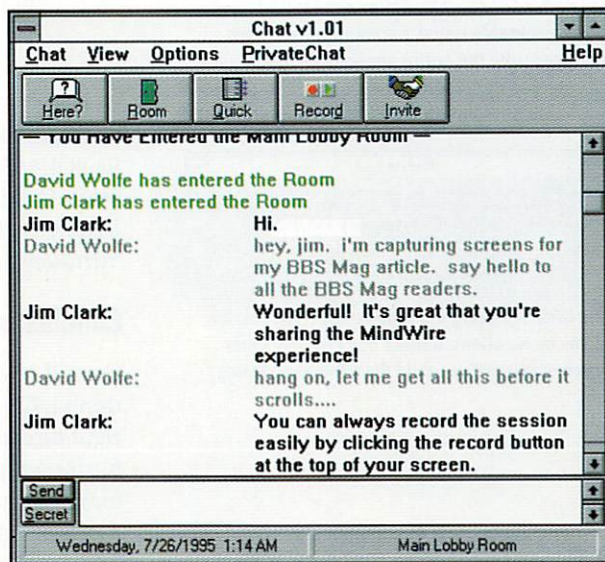
Currently only a handful of third-party vendors are actually producing MindWire compliant applications, although more appear to be flocking daily due to the power of the underlying architecture and the leveraging of Windows NT and SQL databases.

According to DCN's CEO Andre Durand, eSoft (makers of the IPAD and tbbbs) has partnered with his company and was scheduled to showcase the alliance in August at the convention BBSCON. The relationship is sure to bring some long-term players to the eSoft/Durand team, and further bolsters my contention that MindWire is no flash in the pan.

(It may be a slow starter, but this is likely due to so many in the BBS world having grown complacent with what they now run.)



When users get page requests or someone sends them mail while they're online, MindWire notifies them with a Special Message dialog box. This is accompanied by a sound byte notification as well.



Chatting with Jim Clark of DCN.

A Look Inside

MindWire was designed using Visual C++ and Visual Basic. Currently, the MindWire Server and the MindWire Connector (two of the basic, underlying components of MindWire) were programmed in Visual C++. Client side applications and server side administration utilities were created with Visual Basic — not the fastest language on the

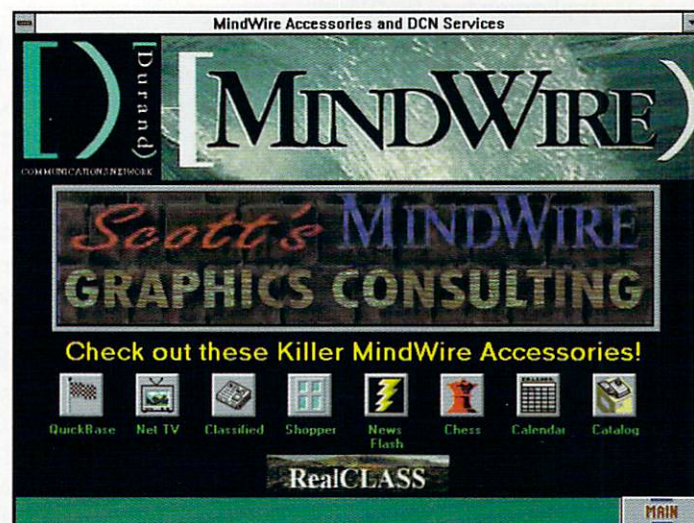
market, but very flexible. DCN knows this and is taking steps to completely rewrite all MindWire code to Visual C++.

The time frame for the code conversion is not yet known, which might be a good thing because MindWire seems to lag in some areas: dialog box refreshing, file searches, and application load-time are occasionally slow, especially if you're using a computer below the suggested requirements on the client side. (DCN suggests a 486/50 with at least eight megs of RAM for the client — a recommendation I second.)

The MindWire Server should operate under nothing less than a 486/66 with at least 16 megs of RAM. The architecture of the system is open and very scale-able, and since the entire principle of MindWire is shared data, a central database server can be used with connected MindWire servers referencing that single database source on an NT or Novell network. On a strong Pentium or DEC Alpha, a MindWire server should be able to support between 50 and 75 concurrent callers via either network, direct Internet or SLIP/PPP dialup. Currently there are some limitations with multiple MindWire servers referencing a single database source. Features like Chat and seeing who is online will not cross over to other MindWire servers. DCN will be addressing this in future releases.

CONTINUES . . .

The MindWire Accessories Menu. This image shows just some of the accessories now available for MindWire.



Other features like Email, Messaging, and File Libraries operate without a hitch on a multiple MindWire server arrangement.

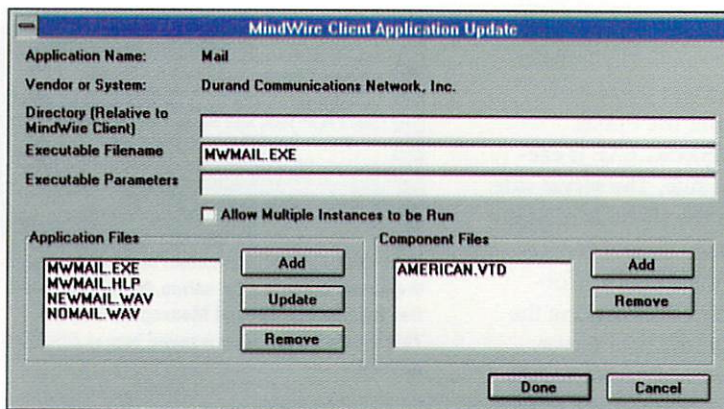
CAM

One of the core elements of the MindWire system is the CAM or the Client Application Manager. This is responsible for ensuring that the client has updated files from the server. When a user logs in, the CAM checks the client to make sure it has the correct menu resources (graphics files, icons, sound bytes, etc.). The CAM also makes certain that the end user has all the necessary executable files. This allows MindWire to continually update its own program units and the end user never needs to upgrade his or her client software again.

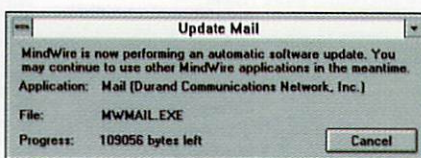
The CAM is very configurable, too. Currently it transmits the entire application when updates need to be performed. However, QuickCAM (an add-on available now) only sends the binary updates to executables, VBX's or DLLs, thus making the update process extremely quick. This will dramatically cut down update times.

CAM is also responsible for starting client applications when ordered to do so by the server. When installing external software for MindWire, CAM must be configured for the new software. The operator of the system indicates which files are needed for the application (executables, data, ini) and CAM is informed which executable is the one to be started when told by the server.

To demonstrate this, DCN created a freeware application for MindWire called News Flash, a simple marquee-style news display application. But let's say you're running a service that gives each customer on your system a news flash button for their own use. A separate News Flash CAM entry must be made for each customer, as the current (July) version of WIP does not have the ability to pass parameters to the application being started when a button is clicked. Therefore, separate CAM entries must be made that reference different news text files for News Flash. It's a lot of leg work if you have to replicate an application to do different things for different users.



Updating a CAM entry. This image shows what is involved with a MindWire application. Items like executable name, parameters, and files involved with the entire application are all part of configuring a CAM entry.



The CAM updating the Mail (email) application on my home client. Callers can still use other areas of MindWire while the CAM is updating.

DCN Family of Applications

As I said, DCN has been around for a couple of years, and in that time they've been hard at work creating distinct elements of online software. One in particular addresses transfer time.

As with any client/server system that sends graphics to the remote end, data compression is an absolute requirement to cut down the online time callers spend just sitting and waiting for graphics to transfer.

DCN has created DC Compress, a compression application for both Windows and DOS, that can compress most graphics formats (GIF, BMP, JPG, TIF, etc.). DC Compress can cut a graphics image down 90 percent with only a 10 to 15 percent loss of quality. If you've been on some other systems, you know that most images sent to the remote user are uncompressed BMP files that can top 200k in size. You will never find that with a MindWire system, thanks to DC Compress and the fact that MindWire prefers to use JPG images — a much more compact graphics format to begin with.

Other add-on applications and packages like QuickBase, Catalogs Plus, RealCLASS MLS, the Publisher, Live Stock Quotes and more are being finalized by DCN to service the bulk of the 'turn-key' needs.

Conclusion

Overall I like MindWire, and must say I think DCN has itself pointed in the right direction at the right time. But future sysops are going to have to pay for all the goodies, as MindWire is a bit more expensive than non-client/server packages like PCBoard, Wildcat!, GAP, and the others. However MindWire's abilities (and future abilities) will likely justify this cost.

Durand Communications Network, Inc. is also a great company behind the scenes, staffed with extremely enthusiastic and helpful people.

Andre can talk forever (and very rapidly) when he gets going about MindWire and plans for the future — no one can say that he doesn't feel for what he is doing.

And whenever I needed tech support from DCN, it was also quick, even when conducted via email. One thing I really like about the company is they're honest when talking about what their software can and cannot do. That's a true sign of a quality team. ■■■■

David Wolfe is a Telecommunications Developer for Core Technology in Indianapolis. He is also a freelance writer and author of The BBS Construction Kit and Expanding Your BBS. He can be contacted via email at sysop@pandy.com.

APDI – The Nation's Largest Service Bureau

With over 500 simultaneous connect lines (and growing fast!) APDI is the nation's premier Service Bureau providing customized on-line systems for corporate and professional organizations nationwide.

APDI will work with you to design your on-line system and then implement and operate it at our state-of-the-art Service Center located just outside of Washington, D.C. We provide all hardware, software and communication facilities required to make your system a success. We also provide a professional Help Desk to assist your users in connecting. You are free to concentrate on the data, APDI takes care of all technical details!

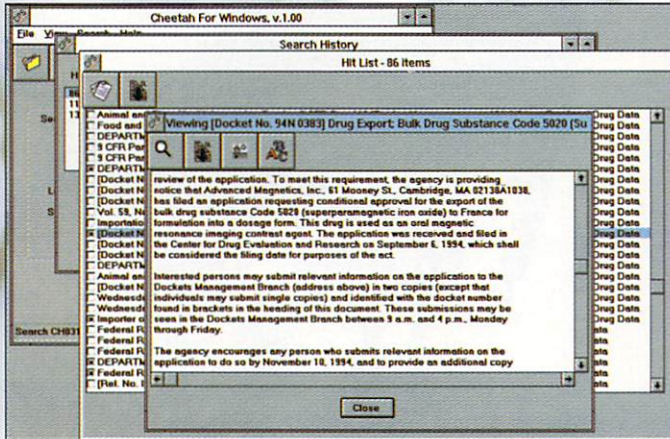
Your Choices

APDI offers you a wide range of options for your on-line system including:

- **User Interface:** MS Windows Client, RIP, ANSI, Terminal
- **Connect Method:** Toll Call, 800 Number, Local Call Nationwide, ISDN
- **Internet Access:** Telnet, World Wide Web, E-Mail
- **System Design:** Customized to present your unique image

On-Line Applications

APDI has implemented systems for some of the nation's largest organizations. We have developed service bureau applications for **publishing, associations, university courses, customer support, software distribution, CD-ROM order processing**, and more! If your project doesn't fit a standard application, we can develop a custom on-line system to fit your needs.



Screen shot from APDI's new Cheetah for Worldgroup Product

APDI's Cheetah product is the on-line industry's fastest and most powerful full text search and retrieval program. Search one or multiple databases using Boolean and proximity search phrases. Megabytes of data can be searched in fractions of seconds. You can take advantage of Cheetah on your system running at APDI's Service Center or you can buy the package to run on your in-house system. Cheetah is compatible with virtually all popular BBS programs including a new version for Galaticomm's Worldgroup!



President Mark Burnett in one of APDI's Computer Rooms

What Makes APDI Number One?

Our State-of-the-Art Service Center and Secure Environment

- USRobotics 33.6Kbps modems on all phone lines
- ISDN, Packet Switching, Frame Relay
- Fully redundant hardware systems
- Independent backup power facility
- Automated data backups daily
- Complete virus scanning
- 7 by 24 system monitoring
- Continuous technology refreshment

Our User Support

- Professionally staffed Help Desk for your users from 9 a.m. to 12 midnight EST

Our Customers and Alliances

Some of the largest and most progressive corporations, associations and even major online services have selected APDI to implement and operate on-line systems for them. Additionally, many manufacturers and service providers have chosen APDI as a business partner. Among these are:

- Galaticomm, Inc. • Mustang Software, Inc. • CompuServe Network Systems

Our Reputation and Demand for Excellence

...having worked with APDI in setting up the PTO's on-line information system we continue to be impressed with their high quality of service and professionalism.

Jim Moriarty, United States Patent and Trademark Office

...we are very impressed with APDI's excellent support and operation of mission critical Worldgroup based on-line systems.

Scott Brinker, President, Galaticomm, Inc.

...CompuServe is excited about the benefits that APDI can bring to our existing and future client base.

Jeff Kiely, CompuServe Network Systems



APDI™

Application Programming & Development, Inc.
6805 Coolridge Drive, Camp Springs, MD 20748

Ph: 1-800-785-APDI Fax: 301-449-1224 INFO@APDI.NET
Worldgroup BBS: 301-449-1835 APDI Wildcat BBS: 301-449-6100

PCBoard® Bulletin Board Software

For more than a decade Clark Development has worked hard to make PCBoard the most stable, feature-rich, user-friendly and configurable BBS software on the market today. As a result PCBoard continues to be the most widely used BBS software worldwide. We are proud of our software and want to take a moment to share with you some of the awards we have won over the last few years. If you already use PCBoard, congratulations. Because when we win, you win. If you haven't yet tried PCBoard, call us and get connected with the most powerful name in BBS software

... PCBoard for DOS and OS/2

THE WORLD IS READY TO CONNECT WITH YOU!



August 1995
PCBoard v15.21

PCBoard is the only commercial BBS software to ever win the prestigious PC Magazine Editors' Choice Award

1991 - In the first full blown comparison of BBS software ever conducted, PCBoard emerged as the only commercial BBS Software package to receive the prestigious PC Magazine Editors' Choice Award.

1995 - After extensive review and testing, PC Magazine once again selected PCBoard as their Editors' Choice, thus continuing our reign as the only commercial BBS Software company to ever win the PC Magazine Editors' Choice award!



...the #1 BBS Software World-Wide

1994 - **Clark Development** received the Dvorak Award for outstanding PC Telecommunications Technology for their PCBoard Programming Language marking the first and only time a commercial BBS software package has been honored with this prestigious award.

**DVORAK PC
Telecommunications
Excellence Awards**

and we are especially proud of our customers who also won the Dvorak Award:

1994 - **DSC BBS / VoiceNet**, for Outstanding BBS and BBS Internet Connectivity

1994 - **ExecNet**, for Outstanding BBS and BBS File Software Bank

1994 - **Sparkware**, for Outstanding Email Standard / Technology

1993 - **DNIS**, for Outstanding BBS Gateway to Multiple Information Services

1993 - **Aquila BBS**, for Outstanding BBS Organization, Features, and Design

1995 - **Best Buy** Awarded by Sysop News to PCBoard for its superior value, functionality and low price.

1995 - **Outstanding Customer Service and Support** Awarded by Technical News Service to Clark Development for providing the best customer support in the industry.



BOARDWATCH

TOP 100

For the three years the "Top 100" contest ran, PCBoard dominated the contest every year with the #1 BBS and more award winning BBS's than anyone else.

1992- 22 winners

#1 Canada Remote Systems
PC-Ohio
Stanford Palo Alto Comp Exch
HH Infonet
Aquila BBS
Channel 1
Atlanta Mac Users Group
Windows Online
Radio Wave BBS
Higher Powered BBS
City Lites
Data World BBS
Ask Fred's BBS
Rusty & Edies BBS
Godfather
Casino PCBoard
Eagle's Nest Communications
Data-Base BBS
Network East
Cajun Clickers BBS
Advanced Data Services
Round Table BBS

1993- 26 winners

#1 Software Creations
deltaComm BBS
PC-Ohio
Plains Bulletin Service
Windows On Line
Godfather
Datamas / Satellite
HH Infonet
Radio Wave BBS
Executive Network
Invention Factory
Legend of Roseville BBS
Rusty and Edies BBS
Space BBS
Cajun Clickers BBS
Channel 1
Eagles Nest Communications
TCSNet
Infoquest
One Stop PCBoard BBS
Kandy Shack
Higher Powered BBS
Computers & Dreamers
Mercury Opus
CRS
Collector's Edition

1994- 23 winners

#1 Software Creations
DSC BBS / Voicenet
Aquila BBS
deltaComm Online
PC-Ohio
ExecNet Information Systems
Network East
Atlanta Windows
Synergy Online
Midwest BBS
Mercury Opus
YEBS
Pegasus Project
Eagles Nest Communications
Radio Wave BBS
TSCNet
Windows Online
West Coast Connection
Channel 1
The Godfather
Rose and Crown
MPCUG
Kandy Shack

Why has PCBoard won more awards than any other BBS software package?

PCBOARD FOR DOS AND OS/2

PCBoard is the most comprehensive, flexible, powerful, affordable solution for your BBS needs. At Clark Development we designed PCBoard with an open architecture so your needs will never outgrow your system's capabilities. PCBoard with PPLC comes standard with all of the following features:

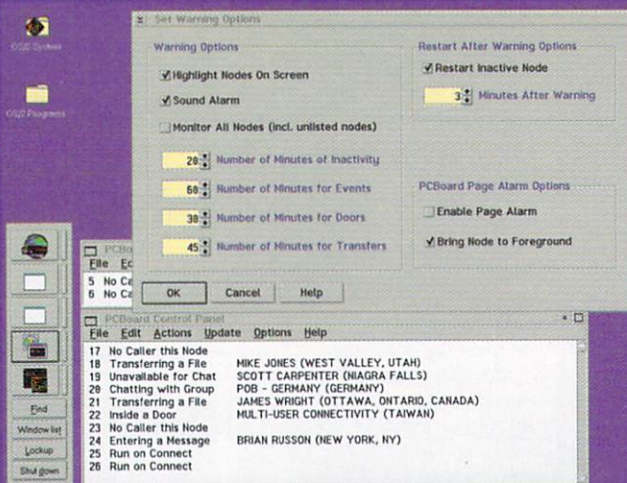
PCBoard for DOS has been fine tuned to run great under DOS, Windows (3.1, NT and '95), OS/2 and DESQview. Or satisfy your need for speed with our new native 32-bit, multi-threaded PCBoard for OS/2. You can even mix and match both versions on the same BBS - now that's powerful!



PCBoard for OS/2 is the first full-featured native OS/2 BBS software on the market, complete with all the features of our DOS version plus a few advantages available only under OS/2. Features like our new Control Panel that functions as both a launch pad and node monitor. It can even dynamically create more nodes when needed and automatically recover if a node ever goes down.

You get all of the following for one low price!

- PCBoard Bulletin Board Software
- Internet Email and Usenet News Gateway
- PCBoard Programming Language Compiler
- dBasIII+ File Access (database & index files)
- Local/LAN and Remote/Modem Access
- Fido Technology Mailer & Tosser
- PCBMail for Microsoft Windows
- Credit Accounting System
- System management programs & utilities
- Free software upgrades for a full year
- Unlimited voice technical support for a full year



How about a few words from some of our happy award winning users?

SOFTWARE CREATIONS - #1 BBS 1993 and 1994

"We have tried many software packages over the years, but nothing has come close to our needs like PCBoard from Clark Development. Clark Development is one of the best partners we have ever had!"

Dan Linton Jr.

SPARKWARE - 1994 Dvorak Award Winner

"Sparky's Machine has been running PCBoard software since 1988 and it works great for our customer's support needs. Our 1stReader QWK offline mail system works hand-in-hand with PCBoard to provide seamless offline mail support for both novices and power users."

Mark "Sparky" Herring

DSC BBS - 1994 Dvorak Award Winner

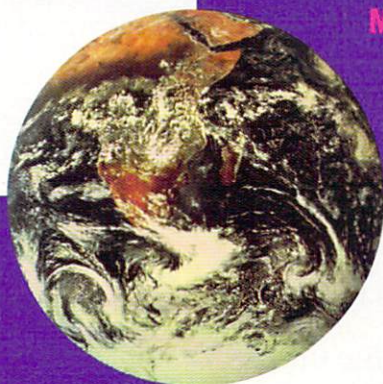
"In the BBS business the user interface is everything. PCBoard has always led the pack on easy to use commands and simplistic user concepts. From the technical end PCBoard is a pleasure to operate. PCBoard continues to dazzle us with the best in BBS software and support!"

Ron Brandt

DNIS - 1993 Dvorak Award Winner

"All of DNIS's information gateways, connectivity gateway systems and success could not be achieved without the help and power of our host software package, PCBoard Bulletin Board Software."

Michael A. Simmons



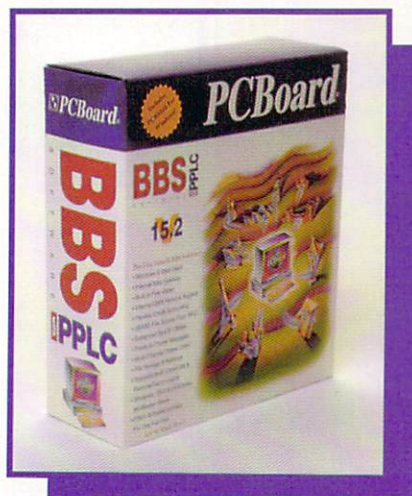
PCBoard®

Clark Development Company, Inc.

to order call 1-800-356-1686

Call our BBS at 801-261-8976
or Telnet to 199.67.41.2

Clark Development Company, Inc.
3950 South 700 East, Suite 303, Murray, Utah 84107-2173
TEL 801-261-1686 FAX 801-261-8987
EMAIL sales@saltair.com

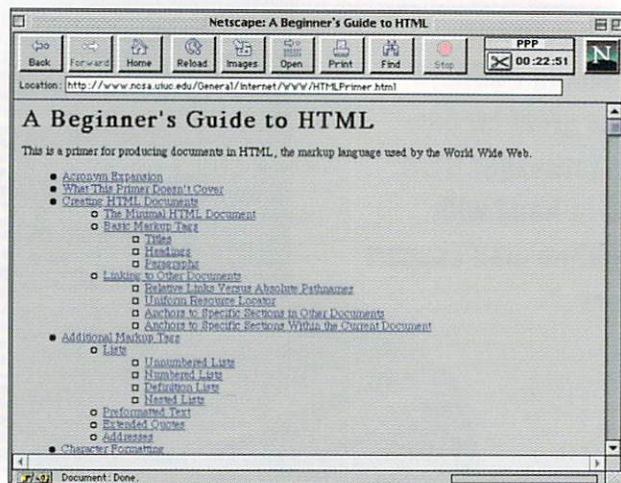


PCBoard for DOS

PCBoard for OS/2

Breaking the HTML Barrier

Web authoring is easier than it looks, once you know the code



There comes a point when simply browsing the World Wide Web isn't enough to fulfill you. You want to be a part of the action. Some people go about this the wrong way, taking it out on Usenet or some unsuspecting mailing list by launching a destructive flame war. "Your computer's operating system wears combat boots," or some such drivel.

Why not build something instead? Then you can watch and wait as the world beats a vapor trail to your virtual doorstep.

Creating a home page on the Web only looks difficult. It's actually quite simple, once you learn to mark your text with funny looking codes enclosed in greater than (">") and less than

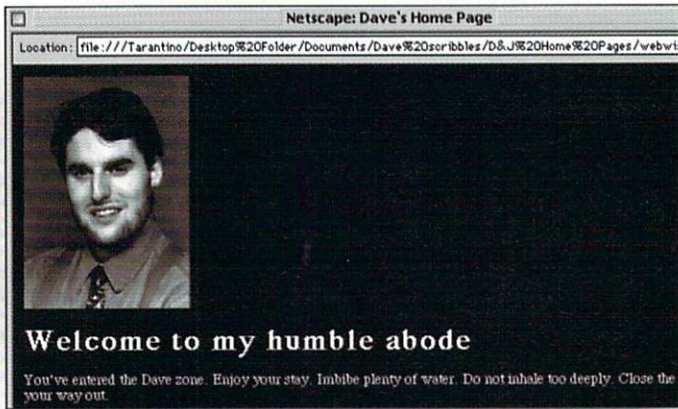
("<") symbols. Yes, drafting a Web page is easy. The hard part can be getting the files onto a Web server where they can be shared with the world (a combination of careful FTP and Telnet mixed with the occasional voodoo UNIX commands). First, check with your Internet provider; you may be entitled to a free or low-cost Web page if it's designed for non-commercial use.

For best compatibility, I recommend working in a text editor that supports saving in UNIX text if the final destination is a UNIX server. For Macintosh, this means using BBEdit Lite and the plug-in HTML extensions (<http://www.york.ac.uk/~ld11/BBEditTools.html>). For Windows, use Kris Nosack's fine HTML Writer (<http://lal.cs.byu.edu:80/people/nosack/>). If neither of these suit your fancy, look for more options at <http://www.ziff.com/~pcweek/navigator/htmlled.html>.

Tag 'em

Basically, an HTML file is really just a plain ol' ASCII text file with special tags designating links, inline graphics, and special effects that you control. A basic home page looks like this:

```
<HTML>
<HEAD>
<TITLE>Dave's Home Page</TITLE>
</HEAD>
<BODY>
<H1>Welcome to my humble abode</H1>
```

```
<P>You've entered the Dave zone. Enjoy your stay. Imbibe plenty of water. Do not inhale too deeply. Close the door on your way out.</P>
</BODY>
</HTML>
```

In the above example, the case of the tags does not matter. `<HTML>` = `<html>`. There are no links or graphics in this page, just plain text with a few special modifiers. `<H1>` indicates a top level (largest) headline. There are smaller ones (`<H2>` to `<H6>`) that you can use further down in your creation, as needed. Tags are paired, generally, to turn an effect on, and then turn it off. Thus, the `</H1>` tag turns off the headline rendering effect and returns you to standard size body text.

Some tags are crucial and must be included in every HTML document. The `<HTML>` tag must begin every Web page, and the `</HTML>` tag must end it. The `<HEAD>` `</HEAD>` tags indicate text that is NOT rendered; only use these mandatory tags to enclose items like the `<TITLE>`, which indicates text to be displayed in the browser window's Title Bar (and not in the body of your document). The `<BODY>` `</BODY>` tags are required to indicate what text is to be displayed in the browser window to the person viewing your page: This is where your content goes.

Image is everything

OK, now plain text is not what the Web is about. Let's add these lines to the body of my example page, in order to spice it up a little with an inline image and some hypertext:

At the top, just before the `<H1>` headline:

```
<IMG SRC="dave.gif">
```

And below the introductory message, we'll create a new section with some links to other sites:

```
<HR>
<H2>Some of my favorite destinations on the 'Net</H2>
<UL>
<LI><A
  HREF="http://www.webcrawler.com/">Webcrawler</A> is a
  great search engine.<P>
<LI><A HREF="http://www.yahoo.com/">Yahoo</A> is a
  great index site.<P>
</UL>
```

Now, the `` tag, as you may have guessed, adds a

picture of me at the top of my page. Note that the GIF image format, supported by the majority of Web browsers, is indicated by ".gif" in lower case. Some browsers are case sensitive about filename extensions, so keep it lower case at all times, just to be safe. Since the image will be stored in the same directory as my Web pages, I do not need to give a full URL for the image's location. If the picture was stored at a remote Web site, I might use `` to indicate its remote location.

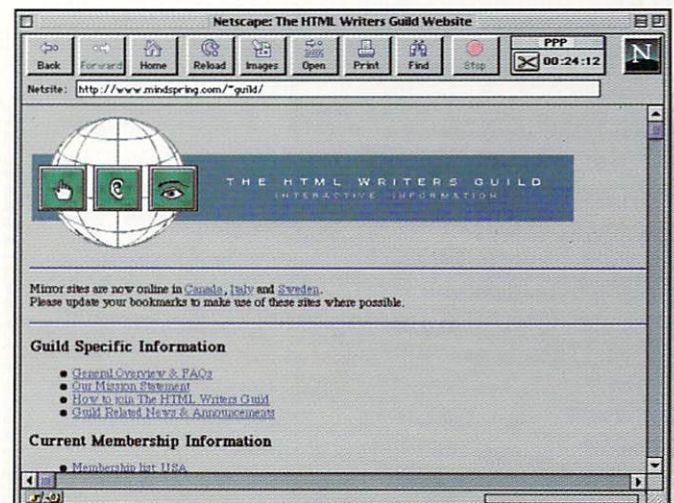
But local files (including other Web pages) stored in the same directory can be addressed using relative URLs, which is useful should you ever need to transplant your site to another Web site! Use relative URLs whenever possible. They will let you test your pages and links in a directory or folder on your hard drive before you upload them to a Web server.

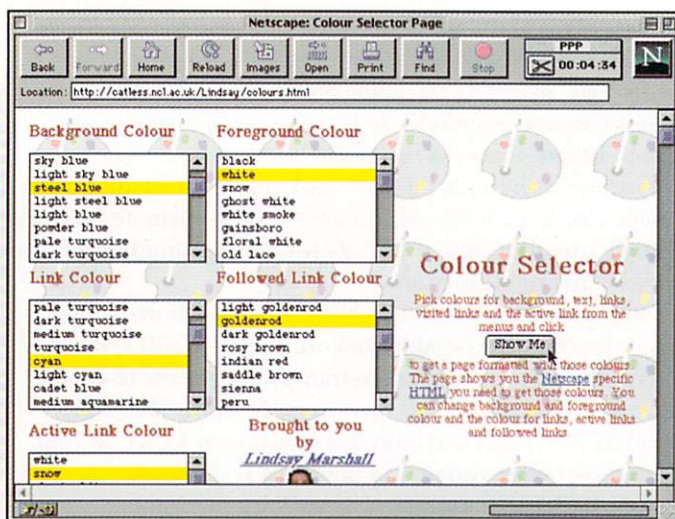
OK, back to the example. I actually left out some extensions to the image tag that should have been included. Whenever you put an inline image in your Web page, you should include some text for users of text-only browsers and those people (like me) who frequently turn image loading off to save time. You do this by adding an ALT attribute, as in: ``. (This is especially important if you have graphical buttons on your pages for navigation.) At the very least, include `ALT=""` with every image tag; this eliminates any reference to the image, rendering it invisible to users of the text-only Lynx browser (popular with UNIX shell users), who would normally see the generic [IMAGE] wording in place of your picture.

Netscape offers an additional set of attributes for images that you should include: WIDTH and HEIGHT markers. Include these measurements in pixels (most graphics programs will give you this information) to speed image loading for those browsers that support them (those that don't understand the attributes will simply ignore them). There are a ton of nifty Netscape-specific codes you can use to play with things like font size and other special effects; get the full picture at http://www.netscape.com/assist/net_sites/html_extensions.html.

My revised image tag looks like this: ``. Your mileage may vary, but for best results you should include the

CONTINUES...





same basic information for every picture.

If you need more information, there's a fantastic FAQ on the subject at <http://www.uwtc.washington.edu/Computing/WWW/InlinedImagesFAQ0.8.1b.html>. But let's move on down to the next section of HTML codes that we added. I started it with `<HR>` in order to insert a dividing line or horizontal rule, which separates sections of my document neatly. The `` and `` tags indicate the start and end of an unordered list. The `` tags indicate placement of bullets. This easily could be made into an ordered list (``, ``), which is numbered, and the `` tags represent numbered items instead of bulleted ones.

'A' is for Anchor

Hypertext coding is the key to the Web. Understand this, and you can safely call yourself the "Master of your Domain." The tag `` indicates the start of a hypertext link where "my.url" is the Uniform Resource Locator (URL) for the Web page or site that you want people to visit when they click the link. Any text and/or inline image(s) that follow the tag but precede the `` tag appear as the link. In the above example, the words "Yahoo" and "Webcrawler" appear as links. Click on them in a Web browser and you're there!

That's it. Well, there's a twist for local links, if you want to get fancy. Local anchors can be coded as `` where "name" is a code word used to access the spot on the page. Then a link that appears like `jump to name` can be used to access that spot on your page. This is handy for indexing a lengthy Web page by category.

A word about marking up paragraphs of text. The HTML specification calls for pairs of tags (`<P>`, `</P>`) to enclose logical paragraphs. You can usually get away with just the `<P>` tag, either before or after each paragraph (be consistent). Paragraphs marked with `<P>` will skip a line before the next paragraph. If you want a line break with no skip, use `
` instead. (There is no `</BR>` tag,

There are lots of things you can do to spice up your body text, too. The basic tags are `` `` for strong or bold text, and `` `` for emphasis, generally in the form of italicized text. There are plenty more, and they

basically work by enclosing the text that is to be modified. You can find out more about HTML text styles and other tags that I've skipped past by reading A Beginner's Guide to HTML at <http://www.ncsa.uiuc.edu/demoweb/html-primer.html> and, my favorite, Composing Good HTML at <http://www.cs.cmu.edu/~tilt/cgh/strict-html.html>.

Yeah, I can hear you say, "Oh, I'll read 'em later." Not so fast. While viewing source (an easy task with most Web browsers) is a good way to get ideas and learn fancy tricks and effects, there's no substitute for learning the rules the right way. By copying other people's code, you also steal their errors. Do one better: Improve on what you find on the Web by coding it correctly, and you'll find your site suits a wide range of visitors. It's a good way to become popular on the Web. Do it right, and you'll earn the respect of your peers.

Patterns and color

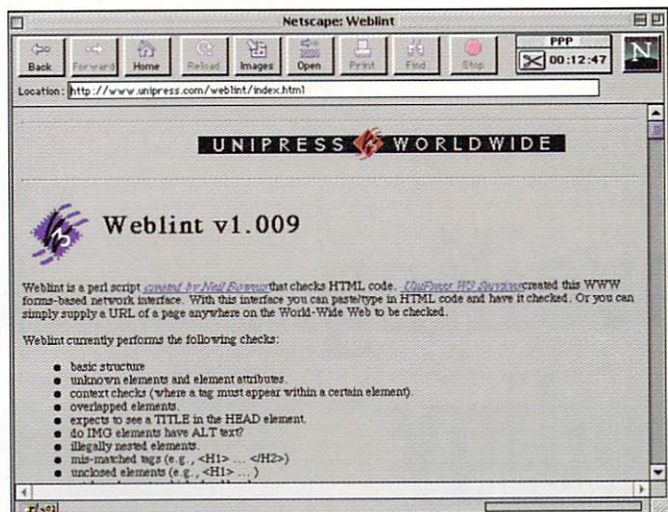
Fancy features like forms and search engines and image maps are a bit beyond the scope of an article geared toward beginning HTMLers. Why? Because they require Perl or C programming to create what's known as Common Gateway Interface (or CGI) scripts. Designing forms is actually pretty easy, but getting the information to you via e-mail is a little more tricky. Doug Stevenson's "mailto" Perl script is one of the best available, although implementing it can be a task. Fortunately, Doug lets people link to it remotely. Take a peek at http://www-bprc.mps.ohio-state.edu/mailto/mailto_info.html.

A good place to find more information about CGI is the HTML Writers Guild, which supports a mailing list loaded with beginner and advanced CGI script writers who share their code and help each other learn this complex but increasingly profitable profession. A script library exists, and you may be able to find a ready-made bit of CGI that you can plug into or modify for your page. Prepare for some heavy debugging. The guild's home page is at <http://www.mindspring.com/~guild/>.

Now that I've told you what I can't teach you, let me add one great page-spicing technique to your repertoire. As users of Netscape 1.1 and later know (as well as readers of my June Webwise column), the Web these days is full of patterns and color. All it takes is a dose of hexadecimal coding to make your home page a feast for the eyes. Actually, you don't even need a Base 10 to hex calculator; just surf on over to <http://www.infi.net/wwwimages/colorindex.html> for a palette of pre-coded colors. Or try the cool tool at <http://catless.ncl.ac.uk/Lindsay/colours.html>.

Be sure to stick to basic colors: PCs and some UNIX workstations can't see all of the different shades that Macintosh users enjoy. Basic black and white, and other standards like red, blue, yellow, and green make for the best starter shades. Choose too fancy, and many of your visitors may miss the subtle effect. Pink, for instance, may appear almost white to PC viewers.

The codes used to add color and patterns are variations on the `<BODY>` tag used in every HTML document. Only use one per document; color fades with multiple `<BODY>` tags are possible, but some browsers don't support them and can crash. (And word on the 'Net is that Netscape will stop supporting them in later versions of their Navigator).



Try `<BODY BGCOLOR="#000000" TEXT="#FFFFFF" LINK="#0000FF" VLINK="#FF0000">`. What this does is make the window background black ("000000"), the text becomes white ("FFFFFF"), links are initially blue ("0000FF") and turn red ("FF0000") once clicked or visited. Since most users are accustomed to black text on a white or gray background, this effect is quite dramatic.

Patterns are fun, too, but they come with a price: load time. Since they are GIF images that must be pre-loaded before your page can be displayed, patterns can add several seconds to your page's load time. Your GIF image should be tiled (which

means it matches up on all four sides to create a smooth repeating texture), have limited color variation (so text printed on top of it can be read), and be at least 64 by 64 pixels. A sample implementation with the same color scheme as the BGCOLOR example above would look like this: `<BODY BACKGROUND="pattern.gif" TEXT="#FFFFFF" LINK="#0000FF" VLINK="#FF0000">`. If you need some good patterns to get you started, you'll find some to download and use at <http://the-tech.mit.edu/KPT/>.

Once you're done coding your masterpiece, you'll want to check it for errors. One method for doing this is to simply view it with your browser and see how it looks. But many browsers (like Netscape) are forgiving of errors and you may overlook some subtle coding errors that can only be seen with browsers that take HTML at face value. Try Weblint, a script that parses your HTML on the Internet and gives you a full report. It will let you know if you forgot to include ALT text for any of your images, and points out any stray tags that may give some browsers the fits. Check your work at <http://www.unipress.com/weblint/index.html>.

Enough reading. Get coding. And, once you have a unique new site on the Web that's ready to be shared with the world, let me know. Maybe it'll earn a mention in a future installment of Webwise.

Overheard on the 'Net

"My opinions are shared by my employer. I think. Okay, they're not." ■■■■■

Dave Kramer can be reached at reeltime@omni.voicenet.com.

Galacticomm Software!

The Major BBS v6.25 \$155.00
WorldGroup by Galacticomm CALL!

Place your Major BBS on the Internet with Major TCP/IP! Add Incoming and Outgoing Telnet & Rlogin, FTP, Finger, a Telnet Dialer, and a WWW Server right on your BBS!

We sell the entire line of Galacticomm Hardware & Software. In addition, we also sell addons from such Quality TPD's as: DataSafe, High Velocity, Sirius, East Side Computing, ProDesign, HumanWare, HighWaterMark, MajorWare, Logicom, and Vircom.

GTEK BBS-550 w/Cables - \$395.00

GTEK Blackboard-4 - \$225.00

We Also Do Turnkey Systems... Call For Details!

Digital Consulting Services, Inc.

Call for a Free Catalog!

800-899-2002 Sales

VISA, MasterCard, and American Express

212-697-7340 Support

Prodigy Unveiling... New Prodigy

Prodigy

I have known about it for the last nine months and now can finally talk about it.

The code name back then was "P2", and Prodigy has now taken the project out of its top secret state and started to let its members experience the New Prodigy (as it is now called).

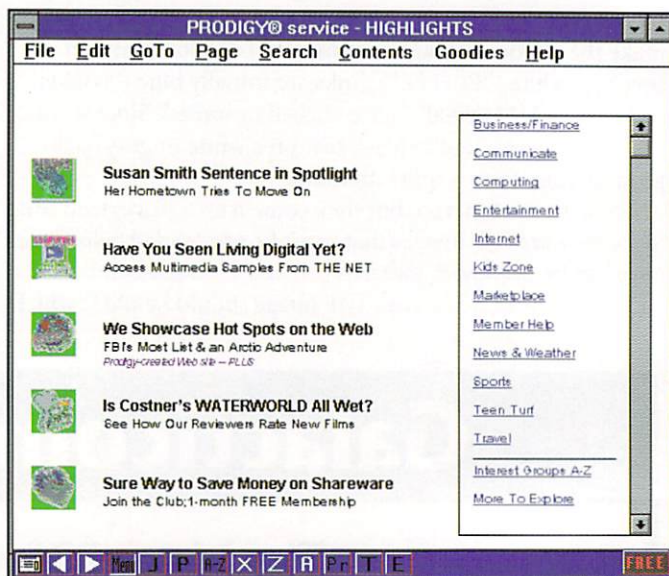
Through the end of 1995, Prodigy will be implementing its new user interface. In fact by last month all Prodigy members were scheduled to have the first phase of New Prodigy installed when they log onto the service. The upgrade takes about 10 minutes at 9600 baud and is worth every minute of it.

The New Prodigy offers members many enhancements to the current service. For email users there's scrolling text and list boxes, a built-in spell checker, selectable fonts and a seven times improvement in the length of messages are just some of the enhancements.

- **Interest Groups:** Meet people from around the world who share interests as vast and varied as the Internet itself! Interest Groups offer easy access to information on Prodigy and the best, most reliable sites on the Internet. Nearly 50 groups including Movies, Collecting, Health, Parenting, Baseball, Auto Racing, Investing and Chocolate are now up and running, with hundreds more to follow. Each is maintained by an expert moderator with links to related Chat areas, Bulletin Boards and Internet newsgroups.

Soon you'll also be able to share files you've created in Interest Group Software Libraries. Get connected to the info and people you care most about. Whatever you're into there's probably an Interest Group for you.

- **Commercial Mail Option:** Prodigy advertisers offer some incredible deals. But if you'd rather not receive commercial and Prodigy email about new features and services, just let them know. (You will, however, continue to receive official, legally required information from Prodigy, such as pricing info, etc.).



- **Real-Time Games:** Play chess and checkers with other members as if you were sitting across from them (something available on BBSs for years). Board games will include instant messaging so you can "talk" to and psych-out opponents as you play.

- **Software libraries:** If you have shareware files you've created, share them with nearly 2 million Prodigy members. Upload your files to Software Libraries for your fellow members to download, use and enjoy.

- **Living Digital:** Prodigy's new computer area on the Web focuses on the culture of computing. Features include insightful columns like "Think Digital," "CyberWordz," and "Hot Spots."

The New Prodigy user-friendly design and simple navigation is geared to what Prodigy is calling a "Webcentric" interface which provides smoother integration with the Internet. It uses familiar Hypertext links so you can click on any word that's blue and underlined, and you're there. The use of Scrolling text eliminates NEXTing through screens.

The new "More About" Navigator is a new window con-



taining a navigable list of online features related to your area of interest. All your options are at your fingertips, from Internet newsgroups to Web sites to your favorite Prodigy features.

New Prodigy's simpler navigation and smoother integration with the Internet is apparent from the moment you sign on. Type in your destination or choose from the Sign-On Screen's scrolling list of sites.

The new GO TO Window takes the place of and functions just like the old JUMP window — but now expands your options, letting you travel to virtually any site in cyberspace. Want to access a World Wide Web site? Just type in the URL. Have an FTP site, Gopher site, or Usenet newsgroup in mind? The GO TO window takes you there as well. Prodigy JumpWords are accepted and the hotlist feature is now integrated with the Internet as well.

As you move from the New Highlights Screen (designed to be clean and crisp) you will see the addition of hypertext links and scrolling text that eliminate extra steps and keystrokes resulting in decreased "productive" time. You may, however, experience a slight increase in display time during this initial release.

The only other problem I have found with the new interface is that your existing macros are incompatible with the new interface. Additionally, some of the keystroke recording mechanisms used to create macros do not appear to be working correctly.

CompuServe

Apparently the Church and the Government have realized that they can no longer neglect the commercial online community, as both the FCC and the Catholic Church have recently made appearances on CompuServe's Information System.

Catholic OnLine brings CIS members everything from ancient church documents, networking with Catholics worldwide and discussions of modern-day issues affecting the Catholic faith. The new forum on CIS (GO CATHOLIC) is dedicated to bringing information, assistance and an online community to the worldwide membership of the Roman Catholic Church. While the area is in no way sanctioned by the Catholic Church, it is the largest and most extensive resource of its kind available to today's online user.

"Our success the first month has been phenomenal," said Michael Galloway, Catholic Online's founder. We have enrolled thousands of subscribers from more than 100 countries, including presidents of several Latin American nations. Catholic OnLine not only tells members about current topics facing the American and international church, but also catalogs the resources that address these issues."

Address these issues it does, with thousands of downloadable files on subjects including Church history, John Paul II (and other Popes), Bible studies, Church Documents, Pro-Life, religion, education, and graphics related to religion.

"The wealth of information available on our service comes from libraries of religious information from around the world," Galloway explained. "We have documents that have never been widely available, and in many cases, the information that Catholic OnLine provides will be new to even the most devout students of the Church."

It is hoped that Catholic schools will take advantage of this new learning service. Message centers, Libraries and Conference Rooms are topic separated as are most of the CIS forums, so educators can direct students into appropriate areas for lesson plans. Cardinal Roger M. Mahony of the Los Angeles Archdiocese said, "There is so much out there that could be placed at the disposal of our people [children], and they are so hungry for Catholic teachings and information."

If you don't have a CIS account, the Catholic OnLine Web page can be reached at <http://www.catholic.org/catholic/index.html>.

The FCC's appearance on CIS was a one time event, but the big cheese was present. Reed Hundt, Chairman of the Federal Communications Commission fielded questions on a variety of issues in a late July live conference open to members of the media.

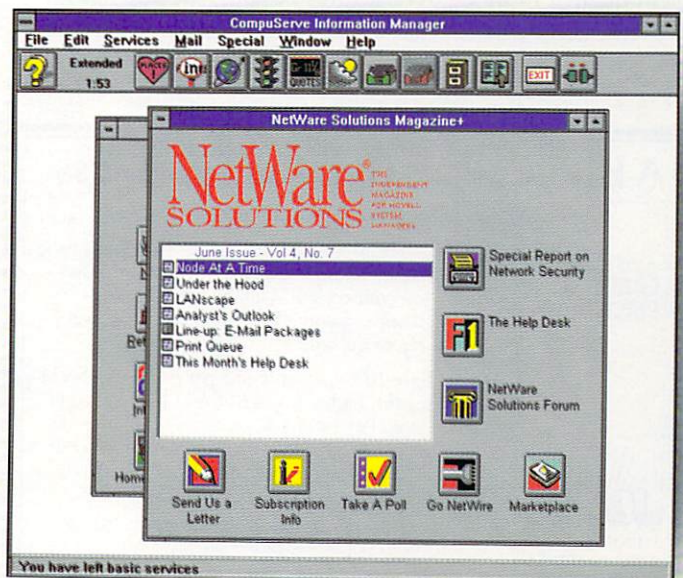
Topics including censorship of cyberspace, cable television rates, the Clipper Chip, PGP and other privacy issues, wireless communications and indecency in broadcasting were all on the Chairman's plate.

Reporters without CIS accounts were kindly offered a free temporary password to join in on the event, hosted by US News and World Report.

NetWare Solutions magazine, a monthly publication for NetWare systems managers and administrators, is now on CompuServe in NetWare Solutions Online. (GO NWSOLUTIONS)

The magazine, distributed to over 40,000 readers, offers the latest hands-on tips, tutorials, technical articles, and questions and answers on NetWare topics. The on-line edition not only features articles from the magazine, but also a help desk, subscription information, and a way to send a letter to the editor. Be sure to check June's issue for a special report on network

CONTINUES ...



security — a good piece.

The new NetWare Solutions Forum is an electronic complement to the publication, featuring message section topics that include network management, security, storage and backup, hardware and cabling, multimedia, and more. The libraries offer files and utilities on TCP/IP connectivity, printing and fax, group applications, email and more. Previous issues of the magazine are also archived in the Library 2, "Back Issues."

BTW: The magazine and the online service are independent and not affiliated with Novell Inc.

AOL

America Online members can now access the *Mac Home Journal* (MAC HOME) online magazine. Mac Home Journal is a great resource for Mac users, and is organized in a way I found very easy to use. The download section is neatly divided into three simple areas: Work, Home and Education. The information sections are in an easy-to-use magazine format with all the sections you would expect to find, including Letters to the Editors, Features, New Products, and Home Computing.

If you are looking for Images, the Image Exchange is the place to go. The founders of this new area on the service have spent the last year collecting and archiving images from all over the world. The collection includes categories like: Rock-n-Roll Album Art, Rockwell's, Impressionism, Animals and Wildlife, Animation, Cityscapes and other selections. There are also featured exhibits and visiting artists, links to Art on the Web and a special charities gallery. The charities gallery features images from many charities and non-profit institutions, and The Image Exchange donates a portion of sales back to the participating organizations, allowing them a highly efficient manner in which to raise funds, inform the public, and generate new members. Use the keyword IMAGE to visit the Image Exchange.

If movies are more your cup of tea, check out the new Movie Review Database before plopping down your six bucks at the local cinema. The Database contains reviews of movies from the 1920s to this week. Use the keyword "Movie Review DB" to check out your next film choice.

Delphi

The World of Wheels SIG on Delphi is the place to find the latest information on all aspects of wheeled transportation. Automobiles, Motorcycles, Trains and Alternative Energy Vehicles are a few of the topics discussed here. Go HOB WORLD to enter the WoW's SIG.

WoW is hosted by Delphi member Hank Hagquist (hank545), who said, "What may be the best part of the WoW SIG is the INTERNET NAVIGATOR (type INT from the WoW main menu). Over 300 sites on the Internet are now available for you to easily find your area of interest.

"All sites are grouped together to make it much easier for you," Hank continued. "If you were interested in Ford Mustangs you would first type INT to enter the Internet

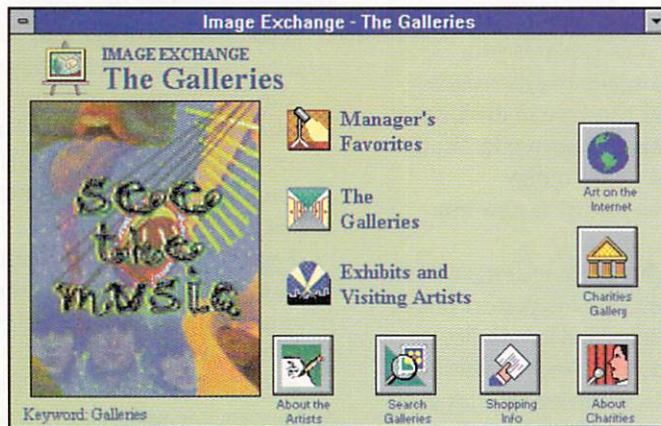
Navigator, you would then find and enter the menu item for AUTOMOTIVE RELATED SUBJECTS (item 2) and then enter the item number for FORD MOTOR COMPANY (item 2) menu item number. Look down the list of Internet sites and you will find all of the Mustang related sites together. Just type in the number of the menu item of your choice and you will be 'transported' to that site."

The SIG also offers a message forum, and several database file collections including sections for General Information, American, Japanese and European Manufacturer News, Fixes and Repairs, Government Regulations, New Technologies, Trucks, Alternative Fuels, Railroading, Motorcycling, and Hot Rods.

Delphi has also started announcing some things about its new Web-based service slated for debut this fall. They've mentioned that the Web and text-based services will continue to operate through the year's end when Delphi will reevaluate the market. They have also stated that a Mac-based browser will be available in or before December.

Delphi also had this to say about the content on the new service: "We will offer discussion areas, chat, news and games as well as the definitive Internet guide which will provide a complete guide to all Web sites on the Internet," a Delphi spokesperson said. "Also, look for lots of exciting and unique content developed in conjunction with our News Corporation sister companies such as Fox Broadcasting, Twentieth Century Fox and HarperCollins Publishing."

Delphi also stated that they are working on access for the visually impaired, parental control and pricing, although no further information is available at this time. ■■■■■



A BBS Caller's Guide to FirstClass®

by Paolo G. Cordone

Learn how to make the most of every session you spend on a FirstClass system, whether you connect via Macintosh or Windows Client software. This book takes you every step of the way!

Save 20%: pay only \$12 per book + \$3 S&H for the 1st book and \$1 S&H for each add'l book. Pay by check, money order, or credit card. (In NJ, add sales tax.) Mail or fax orders to Giles Road Press, P.O. Box 212, Harrington Park, NJ 07640. Fax: 201/767-7457.

For more information, call 201/767-7001 or e-mail gilesrdprs@eworld.com.

ISBN 1-886637-00-8
210 pgs • \$14.95 US

Distributor of Online Services and Products!



FREE 900 SERVICE

INTERNET



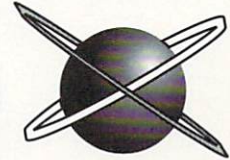
56K - \$535*



WORLDGROUP
Online Interactive Software

8 User
Only
\$389

X.25 NETWORK



56K - \$585*

900 Service Package.....	FREE	Equinox 115K - 96 Line.....	\$ 5375.00	Major TCP/IP - Incoming	\$ 500.00	BBS Lister.....	\$ 69.00
Professional Backgammon C/S.....	\$ 159.95	Equinox 115K - 128 Line.....	\$ 6775.00	Major TCP/IP Unlimited Sessions.....	\$ 1200.00	FOURmation.....	\$ 49.00
Tournament Checkers C/S.....	\$ 149.95	Equinox 230K - 16 Line.....	\$ 1695.00	*Upgrade from Outgoing to Combo.....	\$ 300.00	Global Power™.....	\$ 49.00
Tournament Chess C/S.....	\$ 159.95	Equinox 230K - 32 Line.....	\$ 2545.00	*Upgrade from Incoming to Combo.....	\$ 300.00	HelpMan.....	\$ 49.00
Tournament Othello C/S.....	\$ 149.95	Doorway by TriMark Engineering.....	\$ 49.95	*Within 30 days of original purchase.....	\$ 200.00	Marketplace C/S.....	\$ 299.00
Board Package (4 Games Above).....	\$ 499.95	GalactiBoard (8 Port External).....	\$ 449.95	Auto Validator.....	\$ 80.00	Multi Media Registry C/S.....	\$ 199.00
BBS Listing.....	\$ 39.95	GalactiBox (16 Port Internal).....	\$ 1289.00	Console Lock (download only).....	\$ 30.00	NovaTrek™.....	\$ 99.00
BBSopoly RIP.....	\$ 139.95	PC Xnet Card (X.25).....	\$ 999.95	Crossroads.....	\$ 250.00	Omni-Mall™ C/S.....	\$ 499.00
Card Sharks.....	\$ 69.95	Client/Server Developer's Kit.....	\$ 279.95	Cyberwumpus 2010 WG.....	\$ 99.00	Omni-Mall™ MBBS.....	\$ 299.00
Charge Card Manager.....	\$ 69.95	Internet Connectivity Option.....	\$ 750.00	Form Editor.....	\$ 75.00	POS Dial Module.....	\$ 250.00
Cross-Wordz C/S.....	\$ 239.95	X.25 Software Option.....	\$ 699.95	Global Destruction.....	\$ 125.00	Super Hangman.....	\$ 49.00
Global Actions.....	\$ 39.95	Dial-Out Add-on Option.....	\$ 132.50	HV Utilities WG.....	\$ 100.00	VisaMan™ C/S.....	\$ 199.00
Hearts.....	\$ 39.95	Search and Retrieve Add-on Option.....	\$ 132.50	Major Goose.....	\$ 100.00	VisaMan™ MBBS.....	\$ 149.00
Horse Track RIP.....	\$ 129.95	Fax/Online Add-on Option.....	\$ 164.95	Menu Magician.....	\$ 100.00	AMS DOS Shell.....	\$ 99.00
Instant Lotto.....	\$ 29.95	Major Gateway/Internet.....	\$ 164.95	Menu Magician C/S.....	\$ 150.00	Chat-on-Demand.....	\$ 99.00
Jumble Madness.....	\$ 89.95	Shopping Mall Add-on Option.....	\$ 164.95	Metakeys.....	\$ 50.00	City Search.....	\$ 39.00
Liar.....	\$ 39.95	The Major Database Add-on Option.....	\$ 382.95	Newsroom C/S.....	\$ 80.00	Game Connection.....	\$ 249.00
Log Master.....	\$ 39.95	Entertainment Collection.....	\$ 164.95	Online Checks Direct.....	\$ 100.00	Gate Keeper.....	\$ 39.00
MicroMind.....	\$ 39.95	<i>All C source code listed below requires the Client/Server Developer's Kit and registered copies of any add-on option for which you purchase C source code.</i>		Scribe WG.....	\$ 49.00	Happy Birthday.....	\$ 49.00
Mouse Trap - Maze Game.....	\$ 39.95	Fax/Online Developer's Kit.....	\$ 99.00	Spot C/S (download only).....	\$ 60.00	Line Monitor.....	\$ 49.00
Oltima 2000.....	\$ 249.00	Extended C Source Developer's Kit.....	\$ 329.95	Trade Wars 2002.....	\$ 400.00	Mail Link.....	\$ 149.00
Pig.....	\$ 39.95	Dial-Out C Source Code.....	\$ 259.00	EZ-Fax C/S.....	\$ 59.00	Mail Link Plus.....	\$ 179.00
Roulette C/S.....	\$ 129.95	Search and Retrieve C Source Code.....	\$ 259.00	Fax Importer C/S.....	\$ 119.00	MajorNet Registry.....	\$ 89.00
Tic-Tac-Toe.....	\$ 19.95	Entertainment Collection C Source.....	\$ 319.00	FT-Fax Protocol.....	\$ 149.00	Match Maker.....	\$ 179.00
Trivia Forum C/S.....	\$ 149.95	Shopping Mall C Source Code.....	\$ 319.00	Major Agenda.....	\$ 149.00	Mega Madness.....	\$ 49.00
Video Blackjack C/S.....	\$ 99.95	The Major Database C Source Code.....	\$ 649.00	M.I.D.A.S. C/S.....	\$ 179.00	Mine Field II.....	\$ 59.00
Video Poker C/S.....	\$ 99.95	CD Express.....	\$ 49.95	Multi-Vue C/S.....	\$ 149.00	Online Employment.....	\$ 119.00
WorldLink Cross-Wordz.....	\$ 49.95	File Library Extension C/S.....	\$ 149.00	Vue-It C/S.....	\$ 99.00	Pulse.....	\$ 69.00
WorldLink Jumble Madness.....	\$ 29.95	Major CD C/S.....	\$ 129.00	Linux Developers 4 CD Rom Set.....	\$ 29.95	Remote Console.....	\$ 99.00
WorldLink Package RIP.....	\$ 99.95	Major CD LAN Option.....	\$ 89.00	Linux Getting Started Book.....	\$ 24.95	UserBase.....	\$ 99.00
Yahtzee.....	\$ 19.95	Major CD & LAN Combo C/S.....	\$ 199.00	Linux Combo.....	\$ 49.95	User Referral.....	\$ 49.00
Worldgroup™ Version 1.0, 8-User.....	\$ 389.00	Mountain Mail C/S.....	\$ 189.00	Dr. Linux Book over 1100 pages.....	\$ 39.95	Major Pro.....	\$ 199.00
Worldgroup Version 1.0, 20-User.....	\$ 689.00	Worldgroup Client Companion C/S.....	\$ 149.00	56K DSU DIM.....	\$ 250.00	Major Pro for Worldgroup.....	\$ 249.00
User Six-Pack, each.....	\$ 189.00	Major TCP/IP - Combo (64 Sessions).....	\$ 700.00	Power 28.8 V.34 Modems.....	\$ 239.95	Major Pro Lite.....	\$ 119.00
RIPaint Add-on Option.....	\$ 154.95	Major TCP/IP - Outgoing & FTP.....	\$ 500.00	T1 DSU/CSU.....	\$ 1495.00		
Equinox 115K - 16 Line.....	\$ 1795.00			Vanguard 300 Router.....	\$ 2000.00		
Equinox 115K - 32 Line.....	\$ 2495.00			ADP PhoneLister.....	\$ 99.00		
Equinox 115K - 64 Line.....	\$ 3895.00			AutoRate™.....	\$ 99.00		

Prices subject to change without notice.

All products are trademarks or registered trademarks of their respective companies.

To Order or for a Free Color Catalog Call

1-800-473-3177



TESSIER TECHNOLOGIES, INC.



1876 N. University Drive, Suite 200, Plantation, Florida 33322

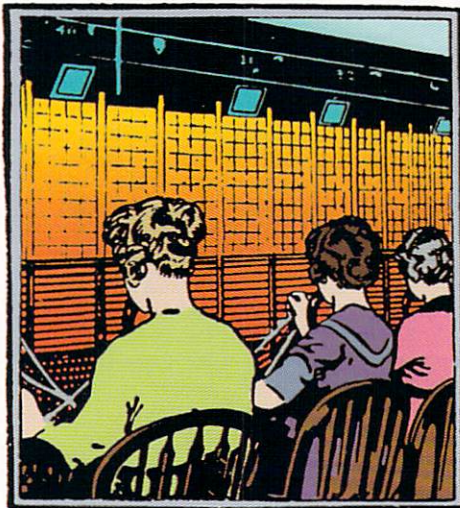
Voice: 305-473-5525 Fax: 305-473-2122 BBS: 305-473-2000

TELNET/WWW: HS.WISENET.COM

The GII In Perspective

Embracing the future of communication

I have had a lot of phone calls lately from individuals and reporters following up on a study recently released by the Annenberg Washington Program. This report, which is actually nicely done, talks about the potential dangers of communicating on the Global Information Infrastructure, or GII.



One of the problems with the report, however, is the role the GII is represented to play in the future. There seems to be this recurring assumption that electronic communication is going to take the place of other social norms, such as going downtown to go shopping or sharing an evening talking with our children. But thinking of the GII as a replacement for current interactions is not being very realistic about the way this technology will be deployed. Just as telephones and televisions haven't replaced face-to-face communications, the GII will further enhance our social interactions by providing new methods of communicating and more information than most Americans have ever had available for their use.

Could this pose problems such as information overload? Sure it could. But market forces are already providing tools to help manage this onslaught of information. Could the gap between information haves and have-nots grow

greater? Sure it could. That's why it's so critical that we make sure that access is provided at low rates and without discrimination as the network is being developed and rules are being defined. Could individuals get caught up in the non-reality of it all and lose sight of the importance of friends and family? Sure they could. Any new medium can be overdone, hence the advent of the term "couch potato."

But the promise of the GII is bigger than my words can express. And, while I believe there's much to be done to get us from here to there, my vision of the GII is a web of networks where the freedom of speech is more protected than it is in the real world, where communities are self-selecting collections of individuals sharing commonalities more important to our individuality than mere location, and democracy is strengthened by grassroots activism on major issues.

This may seem as utopian as a world without war, but consider these examples of things that have already been enhanced by electronic communications:

- Individuals each can share their opinions about everything from apple pie to Johnny Appleseed.
- The First Amendment principles of free speech can be given the greatest protection online.

• Through passwords and filtering software, individuals can avoid any speech they find offensive.

• There is no longer a need to prohibit such speech altogether; electronic communications provide new tools to ensure that all speech can be given a forum.

While it might not look like it to the casual observer, online communities offer tremendously tight bonds for individuals who might be feeling otherwise disenfranchised by our fast-moving society. Much has been written about the transformation of community as society has moved from our urban centers into suburban locales. Much will be written about electronic communities — places where friends can read about the daily triumphs and tribulations of one couple among them who actually quit the rat race and took up farming; where friends can send books to another friend who has lost all of his treasured belongings in a fire; where friends can share information about cancer with one another as they

watch people they love in the real world become more symptomatic.

These are real communities, and while they don't replace the physical communities in which we all live, they offer a tremendous amount of value to our lives.

Everyone online has a voice, and grassroots activism has once again become a major tool for social change. The Clinton Administration's Clipper Chip proposal of 1993 is a perfect example of how well this activism can work.

The proposal would have required individuals to give the government keys to the privacy of their electronic messages. Many online opposed this measure, and an electronic petition circulated over the Internet brought in over 100,000 signatures showing the opposition. The Clipper Chip initiative was derailed, and the Administration learned a quick lesson in the power of Net activism.

I don't mean to say that the future is guaranteed to be rosy and that there are no problems with communicating

online. But the good this technology has to offer society far outweighs the disadvantages.

It is important that we keep focused on the potential benefits as the development of the GII proceeds. By keeping our eye on the prize, we can ensure that the GII is developed with its full potential.

For free copies of the Annenberg Washington Program's report, contact:

Annenberg Washington Program
1455 Pennsylvania Ave., NW
Washington, DC 20004
202/393-7100
<http://www.annenberg.nwu.edu>

Shari Steele is Director of Legal Services of the Electronic Frontier Foundation (EFF), a nonprofit organization based in Washington, DC, dedicated to advancing freedom and openness in computer-based communications. Send your legal questions to Shari at ssteele@eff.org (Internet) or c/o BBS Magazine.

Compubase BBS

*24 High Speed 28.8 bps V.34 Lines (1200-28,800 bps support)
Live Online Chat – Multiline and Sexy Adult Chat!
14 CD-ROMs Online – Hot Adult Graphics and Shareware
The Latest and Most Exciting in Online Games
Internet Usenet and Personal E-Mail Accounts
Online Shopping and Product Catalog
Unlimited Downloads – Large Adult File Area*

305-748-0004

8,N,I

18 or older to access adult areas. Visa/MC. Voice Support (305) 748-0015

Who is Delilah? She is an anachronism in cyberspace — a middle-aged lady who, like millions of others, enjoys communicating with people all over the world on her computer.

Georgia Tech has recently done a WWW user survey and found that the mean age of Web browsers is 35 years, and that 80 percent are male. This doesn't bother Delilah in the slightest, as she logs on every day in her home office to dispense advice and counsel to the many newbies and addicted onliners seeking her help with cyber-relationships.

"I think my age gives me a bit of perspective on life and love — and cyberspace is where people are meeting each other these days," says Delilah. "In this uninhibited setting people feel free to ask me all sorts of questions. I answer as best I can and enjoy hearing about people who have found wonderful caring relationships here."

Delilah, who has written for magazines and newspapers, will soon publish her second book under the Random House imprint, called *Dear Delilah... What is Cyberlove?*

She believes that people meeting on their computers get to know each other in a deeper way than those meeting through singles clubs or bars, and sometimes these individuals never need to meet each other in person to maintain real sharing and caring friendships. Sometimes people talk to each other on their computers for years, sort of like the pen-pals of old.

There really isn't a name yet for this kind of relationship. People become "mind-mates" or 'puter-pals. It is wonderful to share a funny story or joke with your new friends — jobs have been found, illness discussed, family problems shared... all in a very private, yet open atmosphere.

And sometimes people fall in love in cyberspace. This can pose difficulties and problems of course — especially if one or both are already married, or involved with another in real life.

If you'd like to send a question to Delilah, email it to AskDelilah@aol.com.

The following questions and answers are from onliners all over. Don't worry, Delilah always changes names to protect the guilty. :-)

Dear Delilah,
I would like to find true love on the computer. I know many have "connected" with a special someone... can you help me?
—Red

Dear Red,
In all modesty, I have helped several find friendship here, and we all know that is the first step to a love relationship. But take your time. Ask lots of questions and keep an open mind.

Sometimes people are not exactly the way they portray themselves. A deep relationship needs to be nurtured. Make a friend first, and good luck! —Delilah

Dear D,
What are your credentials, if I may ask? —Frankie in VT

Dear Frankie,
Hours spent talking to hundreds of people on the computer has provided me with a certain insight to this type of communication. I researched my book, *Love On Line*, on America Online and Prodigy, and have felt the power. It is great fun to make new friends on the computer, but always keep it in perspective. —D

Dear D,
I think most people online only want to talk about sex. I think it is disgusting and potentially harmful — especially to those in a shaky marital situation. What do you think about that?
—JetPilot

Dear Pilot,
Yep — there is lots of sexchat online. But onliners tell me that it is helpful to share feelings and often improves a marriage by awakening an interest in the physical part of a relationship. If you think talking about sex is disgusting, don't do it. —D

Dear D,
Please HELP. My online love has disappeared. I haven't had email for weeks and am afraid something terrible has happened. How can I locate him? —Angela in Arkansas

Dear Angela,
It is nearly impossible to find someone in cyberspace who doesn't want to be found. Perhaps he was married? —D

Dear D,
Please enlighten me. I am new to the Internet, and want to know about "cybersex." What exactly is it, and how does it work? —TallnHansom in OH

Dear Tall,
Cybersex is the 2D or computer equivalent to 3D or real life sex. It happens when two adults consensually decide to engage in an amorous and erotic adventure, typing as imaginatively and cleverly as possible onto their individual screens. It gives "computer dating" a new dimension. —D

Dear D,
While I type to my friends on AOL, my dog, Snickers, lays



here beside me grinding her teeth. Do you think she is getting messages from the other side? Is this possible while connected to AOL?

—Linda, KO

Dear Linda,
Anything is possible... but I think the side affecting AOLers is the FAR side. Perhaps you should turn off your computer and take Snickers for a walk.

—D

Dear D,
Have you found love on line?

—John Jumper

Dear John,
Sure, lots of times. —D

Dear D,
My wife is jealous of the time I spend on the computer with my online "girl-friend." She insists I stop — cold turkey. How can I convince her it is just harmless flirting? —Steve in TX

Dear Steve,
Is it? —D

Dear D,
How can I impress my online girl-friend? I know she talks to lots of other guys, and I really like her.

—Tampa Tom

Dear Tom,
Why not send her a dozen cyber roses?
12 X -----{---{@ —D

Dear D,
I am gay. And I have met some wonderful online friends. I have never met any of them in real life, but they are having a get-together in Baltimore and want me to attend. Should I go?

—Harold in Chicago

Dear Harold,
Be very careful. Whether you are gay or straight, you should always meet others in a public place the first time. There is so much missing in an online relationship — body language, eye contact, and facial expression — that give us clues to another's character. However, it is may be a safer way to get to know someone than the bar scene... so I think you should go, cautiously. —D



Rusty

Edie

Call a different kind of BBS. "We are the Friendliest BBS in the World." Our name says it all. Edie and I are a couple of burnouts from the 60s. We didn't like rules then and we don't now. Come on in and relax; you will be among friends. We have a huge adult section, including over three gigs of adult graphics, as well as a fine selection of public domain and shareware programs, including over a gig of family-type graphics. But that's not what sets us apart. When you call the first time, you'll know what no amount of words can tell you, you are Home. That's right, put up your feet and enjoy yourself.

We live by three no's: "No Censorship, No Rules, No Hassle."

You'll find us like no other BBS:

- We answer your messages and comments.
- We answer your on-line pages.
- We post our address.
- We post our voice phone number.

Rusty n Edie's BBS
7393 California Ave.
Youngstown, OH 44512

Voice216-726-4217
HST only216-726-1804
Compucom216-726-3584
Hayes V-Series216-726-3619
All (V32 etc.)216-726-2620
Fax216-726-3595

EROTIC Online

The Box Of Love

HOT LIVE CHAT

1-900-344-0014 1-800-220-1170

2.99 per min. Visa/MasterCard. Must Be 18 to access call from home or office via Modem 8-N-1 Up to 28.8 Bps
24 Hours a Day

We Can't Keep The Future Technology Under Wraps

Become one of a few select SYSOPS to experience a preview release of the first true 32-bit client/server BBS

The seal on Mustang Software's top secret project Wildcat! BBS re-write, code-named *Annihilator*, has been broken to allow 5000 "leading-edge" SYSOPS a glimpse of this breakthrough 32-bit client/server BBS technology. Your reward, when you purchase one of the limited Pre-Release *Annihilator* CDs for only \$49 and learn the inside story, is a 75% discount off the purchase price when *Annihilator* is released later this year.

Learn How Interactive Multimedia Can Expand Your On-line Experience

Annihilator takes full advantage of the new multitasking in Windows 95 or the robust server operations in Windows NT to provide a solution that brings full on-line multimedia to every caller. See how you can use *Annihilator's* built-in remote graphics to provide an exciting multimedia greeting, using familiar JPEG and GIF graphic editors to customize the caller interface.

See How You Can Deliver More Information At Greater Speed

Annihilator's Preview CD will demonstrate how the true power of client/server functionality can be unleashed to provide a broad, BBS-based solution. Learn how to implement a BBS with a core information server, and route that information using a number of application clients at the Sysop's location. You'll be able to establish a true distributed processing system that delivers more information at greater speed, now *even* on a single PC.

The Client/Server Model Provides A Number of Advantages

The *Annihilator* Preview CD will show you how a SYSOP can offer a BBS on a desktop platform with the expansion capability to run any size on-line service.

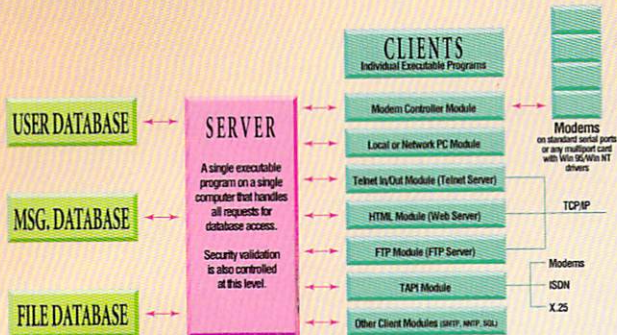
- 32-bit Windows multitasking means no additional multitasking software is needed and 16-32 lines can be run easily without loading multiple copies of the BBS.
- The server controls all access to messages, files and other system information, isolating the core of the host activities to provide secure, private system access even to local users.
- Under *Annihilator*, the entire BBS configuration can be modified even while in full operation, but only by authorized personnel.

Project
ANNIHILATOR
The First True Client/Server BBS

TOP SECRET

Of 32-bit BBS Much Longer

Single PC Running Windows 95 or Windows NT



The client/server model of Annihilator can be easily installed with the server and all clients running on a single PC. The computer can operate under Windows 95 or Windows NT Workstation or Server. This configuration offers the most compact system and allows for total management from the single BBS computer.

Build A Powerful New BBS With Annihilator Server And Client Modules

Standard Annihilator modules included with every BBS create a foundation for the new client/server BBS:

Server Module – functionality for processing all database and configuration requests and operational characteristics of the BBS.

Local Client – a fully graphical connection for anyone connecting at the host PC or over a LAN.

Modem Client – answers the phone for all dial-in lines and presents the BBS in ANSI, ASCII or in full graphics.

QWK Client – handles QWK mail exchange between the host and other BBSs.

TAPI Client – provides a link to the Windows Telephony Application Program Interface and a mechanism for ISDN, X.25 and other connectivity.

Graphical Remote Client – a set of freely-distributed Windows programs for callers to experience full multimedia when connected. This 16-bit program suite operates on Windows 3.1, Windows 95, Windows NT and any OS/2 release with Windows support.

Optional Annihilator modules increase the power of a client/server BBS:

UUCP Client – handles dial-up Internet e-mail and news-group support.

Internet Package – accessories to handle TCP/IP support: Telnet Module, FTP Module, WWW Module, IRC Module, SMTP Module and NNTP Module.

MAPI Client – a mechanism to exchange messages between applications such as Microsoft Mail, cc:Mail, Lotus Notes, etc.

wcCODE Package – a new high speed, 32-bit development language so powerful that all standard BBS functions are written in it.

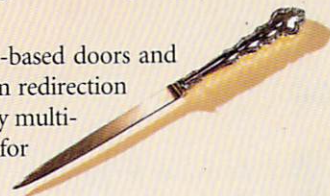
Source Code – for total customization of online activity, the wcCODE source for the BBS is also available for purchase (requires wcCODE).

SQL Database Client – provides full remote connectivity to distributed database processing using the SQL language.

Reports Client – reports BBS usage and statistics, and provides a means for manipulation, export and selection of database records using match criteria.

Billing Client – bill callers for any action performed on the BBS, includes report and invoice generation, pre-pay and post-pay models.

Annihilator fully supports all DOS-based doors and includes a program for DOS program redirection to any line. It can be connected to any multi-port serial card that includes drivers for Windows 95 or Windows NT.



**Buy The Pre-Release
Annihilator CD For \$49*
And Save Up To 75% Off
The Purchase Price**

Instructions and information on the Pre-Release Annihilator CD provides SYSOPS with an inside look into the future of BBS technology.

Purchase of the Pre-Release Annihilator CD establishes eligibility for a 75% discount off the manufacturers suggested retail price when Annihilator is released later this year.

Only 5000 Copies Of The Pre-Release Annihilator CD Will Be Mastered. Get The Inside Track And Stay On The Leading Edge Of BBS Technology By Getting Your Copy.

**Call Today To Reserve A Copy
1-800-208-0616**

*Add \$10 for shipping and handling

Product	MSRP*	75% off*	66.6% off*	Availability
Annihilator M2 (two node + local)	\$149	\$37	\$49	4th qtr. '95
Annihilator M16 (16 node)	\$349	\$87	\$115	4th qtr. '95
Annihilator M32 (32 node)	\$699	\$174	\$230	4th qtr. '95
8 Pack Node Increase	\$199	\$49	\$65	4th qtr. '95
UUCP Client (dial-up)	\$149	\$37	\$49	4th qtr. '95
Internet Clients (Telnet, FTP, WWW, UUCP, IRC)	\$799	\$199	\$265	4th qtr. '95
MAPI Client	\$799	\$199	\$265	Early '96
SQL Database Client	\$799	\$199	\$265	Early '96
Reports Client	\$149	\$37	\$49	Early '96
Billing Client	\$149	\$37	\$49	Early '96
CODE Development Language & IDE	\$149	\$37	\$49	4th qtr. '95
BBS Source Code	\$799	\$199	\$265	4th qtr. '95

MSRP (manufacturers suggested retail price), 75% off to purchasers of the special Pre-Release Annihilator CD, 66.6% off to Wildcat! SYSOPS with valid registration number.



Connecting The World

Mustang Software, Inc. • 6200 Lake Ming Road • Bakersfield, CA 93306

805-873-2500 • FAX 805-873-2599 • BBS 805-873-2400 • Internet: <http://www.mustang.com>

Although the BBS on the CD will be operational, it is not intended to be used as a commercial BBS because it will not have completed testing nor will it include full printed documentation. Each CD contains Annihilator M16 plus all modules available in 1995. Some modules, including the Graphical Remote Client are not yet completed, but will be made available electronically to Preview purchasers as they are completed. This Preview CD requires either Windows 95 or Windows NT v3.51 for operation. © 1995 Mustang Software, Inc. All names are trademarks of their respective companies.

bbs .notebook

BY STEVE JANAS

To qualify for possible review in BBS Notebook, call The Livewire BBS at 609.235.5297. From the main menu, type ADBBS and follow the prompts.

The Institute for Global Communications

PeaceNet, LaborNet, EcoNet, WomensNet, ConflictNet

Location: San Francisco, CA
Voice #: 415.452.0220

The Internet seems a good fit for the world of grassroots activism, if for no other reason than the fact that one is an analog of the other. Small collectives built around shared interests, interconnected in expanding rings of complexity that cover the whole world with a dynamic, vital web of discourse: that could be a description of either the Net or of any one of the coalitions and federations committed to promoting the world's seemingly endless supply of political and social agendas.

Not all of those groups have plugged into the organizational power of online services though, and that's where IGC comes in. The group has introduced the technology to dozens of non-profit organizations, many of whose members are strangers to anything from the realm of computers. Of course, not every-

body qualifies for the IGC's help — the group has an agenda of its own, articulated in its mission statement:

"To serve, expand, and inspire movements for peace, economic and social justice, human rights and environmental sustainability around the world by providing and developing accessible computer networking tools."

The group formed out of an alliance made seven years ago between PeaceNet and EcoNet, according to Program Director Michael Stein. At the time, he says, PeaceNet was "living off a corporate computer at a military industrial firm" that was nonetheless sympathetic to the cause, and EcoNet, which was formed by veterans of the original Earth Day, was struggling to survive on an ancient Apple II.

The roster of groups one is likely to encounter on the boards reflects that diversity.

"A typical EcoNet member would be something like the Rainforest Action Network," Michael says. "They have dozens of accounts, and they use them to plan actions against companies like Mitsubishi and Texaco that destroy rain forests."

Other groups include the Indigenous Environmental Network, which rallies tribes of native Americans around environmental causes, or labor organizations, or anti-nuclear groups.

The IGC's politics are left-leaning, Michael says, which is fine, considering how much mileage the conservatives have gotten out of their bulletin boards, mailing lists and news groups over the past couple of years. The IGC would like the Net to be just as potent a tool for the left, not just in this country, but around the world.

To promote its causes, the non-profit organization, which is affiliated for tax purposes with the Tide Foundation, runs five bulletin boards, the oldest of which is PeaceNet and the newest is WomensNet.

The boards have a subscriber base whose combined total equals about 13,000 members, Michael says. About 60 percent of the members are organizations, while the remainder are individuals.

Mostly, they come for the Internet access, which is provided via a high-speed T1 phone line. IGC's basic service is offering SLIP/PPP accounts, Michael says, which open up a full range of Internet services: Gopher, Telnet, the Web and mailing lists.

And there are Usenet news groups as well. The IGC offers all the .soc and about half the .alt groups, plus a smattering of technical and business groups.

The group also provides consulting services to non-profit organizations looking to go online, and conducts conferences and discussion

groups around the world via a network of like-minded organizations called the Association for Progressive Communications (APC).

The APC has 18 full-member organizations and 44 associate members, Michael says. To qualify as a full member, a group must have one permanent staff member dedicated to operating a BBS.

In addition to communicating with each other, APC members collaborate on projects, including a face-to-face conference on women's issues that was held in Beijing, China this summer. It was during preparation for that conference that WomensNet was born, Michael says.

Users can connect to the IGC's boards through modem banks the group maintains in San Francisco, Washington, D.C. and Menlo Park, CA. A New York bank is on the way, Michael says. Another option is to Telnet, to telnet.igc.apc.org, or to connect via Gopher at gopher.igc.apc.org. The group also maintains a home Web page, accessible at the address <http://www.igc.apc.org>.

In addition, IGC offers local dialups through SprintNet, but that route has its pitfalls. One is the added cost, which can amount to \$2 per call during peak hours. Another is the series of awkward commands users have to type to get from the connect message to the log-in prompt.

The cost of a membership is \$12.50 per month, on top of a one-time \$15 sign-up fee. For their money, users get a copy of the group's custom-designed client software and a manual. The first six hours each month are free; after that it will cost you \$1 per hour. The group also provides low-income and group rates, Michael says.

The software the group sends to users is built on standard Internet protocols and comes with Netscape bundled in, Michael says. But you don't need it to connect to any of the boards.

"You could always get in through the terminal emulation software of your choice," Michael says. "We

make a big fuss about continuing to use a text-based interface for people with slower modems or people who cannot afford more expensive machines, or people who have not graduated beyond a 286 machine with a black and white monitor. Which is a lot of our market."

Michael admits the question of accessibility to state-of-the-art equipment is a vexing one for the group, given the fact that many of the people the group addresses are those least likely to have computer equipment or know how to use it.

.....

the [IGC] has an agenda of its own, articulated in its mission statement:

"To serve, expand, and inspire movements for peace, economic and social justice, human rights and environmental sustainability around the world by providing and developing accessible computer networking tools."

One way to solve the problem is to train people. Profits from membership dues are used to maintain a staff of 11 people who work with groups trying to establish an online presence, often with equipment the IGC has donated, Michael says.

That kind of effort is just as important as staying at the crest of the wave in the latest hardware and software developments, he says.

"I want to keep up with the technological developments in the medium, offer graphic interfaces and web services. At the same time, part of our future is to get back to the accessibility issue. Get to the information have-nots. If we let one drop, we'll be in big trouble."

Horsefeathers

Location: Ingleside, IL

Sysop: David Soderdahl

BBS #: 708.587.9214

Modems Supported: Up to 28,800

BBS Software: Spitfire 3.5

Horsefeathers is a Chicago-area general messaging board with a RIP interface that shows why any sysop who wants to run a professional-looking operation might want to take the plunge to RIP graphics.

The menus are clean and simple and designed with plenty of buttons to push, and all with a consistent graphic style. If I had any complaint at all about the design, it would be with the opening screen, which goes just a mite overboard with its conglomeration of type faces all squeezed together. Still, it's a refreshing change from the monotony of ANSI or — gasp! — text-only boards.

Like many local boards, Horsefeathers has yet to plug into the Net, although sysop David Soderdahl promises some kind of access will be coming soon. Also, like many boards, the substitute for Net access are Fidonet echoes in the message areas.

Access to the board is free and immediate. David charges no membership fee (he doesn't say whether that will change with the advent of Internet connectivity) and gives all new members a leisurely 60 minutes to explore the board's features.

David says the file area is up to about 2,300 files and counting, half of which are kept on a hard drive and the rest on a CD-ROM, accessible via a Door launched from the main menu.

The files are your standard games and utilities, with a prejudice shown toward Windows.

The public message area is lively enough, with a selection of conferences that runs the gamut. You've got Film and Movie Reviews (although what the difference is escapes me), Home Brewing, Progressive News Stories, and a discussion group on cats, among others.

CONTINUES...



Rusty Edie

Dual Eliminator

Rusty n Edie's BBS announces the introduction of their **Dual Eliminator**. Simply plug your phone line to the Dual Eliminator and then plug the Dual Eliminator into your modem. This device consists of 2 passive electronic filters that handle both high and low frequency noise from the phone line. Both high and low frequency are independently adjustable with knobs that mount on the front of the unit. Surge protection is provided by an electronic varistor.



A light emitting diode, also mounted on the front of the unit, glows whenever the device is eliminating noise from the phone lines. This device can solve the majority of noise problems associated with telecommunications today, and is sold with a 30-day, money-back guarantee. They sell for \$25 each plus \$4 shipping and handling. To order, call Rusty n Edie's at 216-726-4217, fax to 216-726-3595 or call their BBS number 216-726-2620; they will accept Visa, MasterCard and American Express.

Rusty n Edie's BBS
7393 California Ave.
Youngstown, OH 44512

Other features of the board include a game Door which launches a selection of about 12 games, and a weather bulletin that's updated daily for the benefit of anyone curious enough about Chicago weather to call in and get the stats.

**[Horsefeather's] menus
are clean and simple
and designed with plenty
of buttons to push,
and all with a consistent
graphic style.**

Since the vast majority of the names listed in the callers area live in Chicago and its environs, this feature does have some obvious practicality.

There is also a section set aside for free classifieds, which are attractively presented, with each ad getting its own screen.

Finally, callers are given an opportunity to cast a vote on a particular subject chosen by David. The day I logged on, users were asked to vote for their BBS software. Nobody beat out Spitfire, but, perhaps not surprisingly, the program was forced to share a tie vote with Wildcat!

Of course, only about 30 votes total were cast (out of several hundred callers), which just goes to show that the nuts and bolts of BBS operation is not exactly a universal interest among callers. What better indication do you need that content rules?

The Other Side

Location: El Paso, TX
Sysop: Sean Dunbar
Data #: 14,400 BPS 915.599.2246
915.594.1637
33,600 BPS 915.590-3817
BBS Software: Renegade v.10

Sysop Sean Dunbar built The Other Side in June, 1994 from the ashes of an older board he had been running,

which he took offline after detecting in himself symptoms of what he called "sysop burn-out syndrome."

He wasn't a total burn-out, apparently, because he managed to find the fortitude to cope recently when a sudden power outage brought The Other Side crashing down, exiling the majority of Sean's user files into some eternal purgatory. Instead of throwing in the towel for good, Sean just fixed the problem, salvaging what he could and inviting his 500 registered subscribers to re-register as new users.

Now he's tinkering.

The board supports RIP graphics, although at the moment, when you log on, the best you'll get is color ANSI. Sean says he's in the processing of designing a new look for the board, however.

Also, there's no Net access, beyond a smattering of networks that include some Usenet news groups, but Sean promises full access is coming soon.

It comes at a price. You don't get full access until you pay the \$10 yearly membership fee, which is actually a bargain for (coming) Net access. Sean says he's not in the game to make money; he just wants to cover his costs.

If you're not a dues-paying member, you can look forward to 25 minutes of time on the system, with no upload or download privileges, and without the ability to post public mail.

The board is really geared toward technophiles, although it's set up with adequate help screens and kind tolerance for neophytes. The system resides on a 486DX2/66, with 720 MB of hard disk space and a separate online CD-ROM drive. Users are generally restricted to one of three nodes, although with higher access, they can jump from node to node if they wish.

The file areas consist of the typical games and utilities, with a preference shown to applications supported by OS/2 Warp, which is the operating system driving the board.

In addition to the public message area there are also several online mag-

azines which users of any access level can browse through. The titles I saw when I logged on included the *Pasco BBS Magazine*, *BBS News* and *Sunlight Through Shadows*.

One of the messages I saw on the public area was a curious dialogue about the relative merits of the shareware Renegade software versus the commercially available PCBoard. Obviously, the argument for PCBoard took into account its many perks and its technical support.

Sean stands behind Renegade, however, and his board serves as a local hub for the RGSNet support network. He says he might upgrade though, or he might continue saving money to buy a car.

I guess the decision will show whether he truly is a burn-out or not.

The Mirror Image

Location: Grand Junction, CO.
Sysop: Mark Feil
BBS Main Access#: 303.244.8420
Modems Supported: Up to 28,800
BBS Software: Wildcat! 4.11

I'm not really sure what the name refers to (when sysops don't turn to quasi-mythic game-inspired imagery for their board-names, they always seem to go for in-jokes) but the board itself is a serviceable multi-node conferencing set-up that serves the western Colorado area.

Its centerpiece is a main menu designed in colorful ANSI graphics around the image of a marquee (neat idea, but is there a mirror in that concept somewhere?) that lists the usual board offerings: conferences, a newsletter, a directory of files, etc. There are also a couple of Doors in the menu, including one that launches a callback verifier program (you'll be visiting this if you want full access), and one that presents the user with a range of CD-ROM selections.

Mail is pretty much an in-house proposition with the board — as far as I could see, there didn't seem to be any Net access, but the board does offer an offline mail reader that uses

the QWK format to assemble packets containing up to 1,000 messages from other users.

Getting from the log-in prompt to the main menu, the user is confronted with a bulletin menu of policies and regs and such, plus several screens of dry, chatty BBS wit. I was

.....

**Seven disks are maintained
online [at the Mirror Image],
while 12 others wait in the
wings to be called up.
Simply leave a request,
and — theoretically — your
disk will be set up for you
within 24 hours.**

informed, for example, that the day I logged on had been pronounced "rat-catchers day," in honor of under-appreciated vermin-chasers everywhere. There was also a quote from — what else? — Star Trek (one of the classic episodes, in which Spock explains some dispassionate action of his to humans hopelessly befuddled by those pesky emotions), and a little question-answer contest that provides a nifty interactive touch, although I couldn't say what you win if you get the answer right.

The CD-ROM offerings are impressively extensive. Seven disks are maintained online, while 12 others wait in the wings to be called up. Simply leave a request, and — theoretically — your disk will be set up for you within 24 hours.

The conference areas cover a broad range of topics, from women's issues and camping to personal exchanges between members that generate the usual double-digit postings.

There is also a section on the board devoted to ANSI graphics, which is essentially a listing of other boards around the country, accompanied by their respective logos.

There are a total of 730 files kept here, which at first glance seems impressive, until you see that many of them are repeats.

Maybe that's what they mean by a mirror image.

After Dark

Location: Sacramento, Calif.
Sysop: Matthew Lowe
BBS access #: 916.961.0440
Modems Supported: Up to 14,400
BBS Software: Maximus 2.01

A message and gaming board operating in the Sacramento, Calif. area, After Dark offers email and Fidonet echoes for nothing more than the bother of filling out the registration screen.

The frills are few here: there's no direct Net access, so email remains strictly a local matter, and the menus are all presented in simple but solid ANSI colors.

There's a large selection of files for a single-node local board, however, and the main menu offers an "xpert toggle" for veterans who want to fly directly to their destinations within the board without stopping to look at sub-menus along the way.

There are no real surprises in the message areas — messages mostly consist of running dialogues between core subscribers, tech talk, and appeals and/or pitches for equipment by members. For the sake of economy, the Maximus software supports offline QWK readers.

There's not much a user can do without registering for an upgrade. Visitors to the board are limited mostly to scanning through the list of downloads they can't have and games they can't play, and the Fidonet echoes are also off-limits. Also, they're shut out after 15 minutes. Register, and you're bumped up to a full hour per day. ■■■■

Steve Janas is editor and co-founder of Nexus Six magazine, the journal of gutter-tech. He welcomes news of new and noteworthy boards. He can be contacted at janas@aol.com.

A Modern Proposal

Friends, countrypeople, lend me your e-mail addresses.

The time has come to face the imminent and ready ourselves for launch into a brave new world. Our state borders are meaningless now; social order has been stripped away and the constructs of society have been dismantled. I think it is agreed by all that the castaways of the online movement threaten to be a great additional burden to society. Like-minded groups should unify, form the United Cyberstates, demand to be recognized as viable states in the union and, if need be, threaten succession.

The Internet is our salvation. The online environment helps us find like-minded people, giving us a renewed sense of community that's been stripped away by the sterile, boxy and faceless suburbs.

Yes, the hour of transition is here: While organizing our cyberstates (or c-states) we will also establish those for the poor and downtrodden. And since future computers will still require frequent upgrades, and since a PC with two or three years on it is no salable commodity, these heavy clones will be given (with a tax deduction, of course) to residents of the poor c-states.

There are other great advantages to my proposal. Since the workplace is changing so rapidly (by January of next year, 47.4 million people will be working from home) life in these United Cyberstates means children can attend kindergarten through high school solely online, frolicking in the sunshine of the recess playground chat room.

Teachers will easily be able to detect the trouble making youngsters attempting to surf the Playboy home page.

C-states will be free of annoying lawsuits and discrimination claims as well. A family at odds with the dominant religion in an online school system, for instance, need not face violent funda-

mentalists at PTA meetings. Oh no, simply change the phone number in your dial-up protocol and Bang, you're done — moved to another c-state. No moving trucks. No realtors. No broken dishes.

Of course, we'll still be packed in the suburbs, but c-states are sure to alleviate suburban dissonance, and who really interacts with neighbors anyway?

I have too long digressed. Under our current system of government, many hard-working Americans find themselves tired of laboring to support the poor.

So why is it we're working? Why go on? Apparently to get back to the computer — it's our new home. Indeed, Home is where the hard drive is.

Therefore, I humbly offer it up for public consideration that the residents of the poor c-states, with their hand-me-down clones, be given a home: tube-filled IBM mainframes (there are plenty left over). The more fortunate onliners will live in virtual style with sleek, black, liquid-cooled Crays.

The citizens of the poor c-states can repay our generosity and foresight by undertaking the lawful occupation of assembling home exercise equipment, as our bodies are sure to wither parked before our stations day in and out.

Now, I'm not so bent toward this model as to reject any offer found to be equally cheap, easy, and in accordance with the visionary framework provided by our benevolent computer and software manufacturers. Alas, I have no other motive than the public good of my country.

The cyberstate is a modern proposal, please accept it swiftly. ■■■■

Lazlow Jones writes and produces the Underground Technofile for the Underground Network, an alternative radio satellite network in New York. He can be reached at lazlow@undernet.com and www.undernet.com.

.....

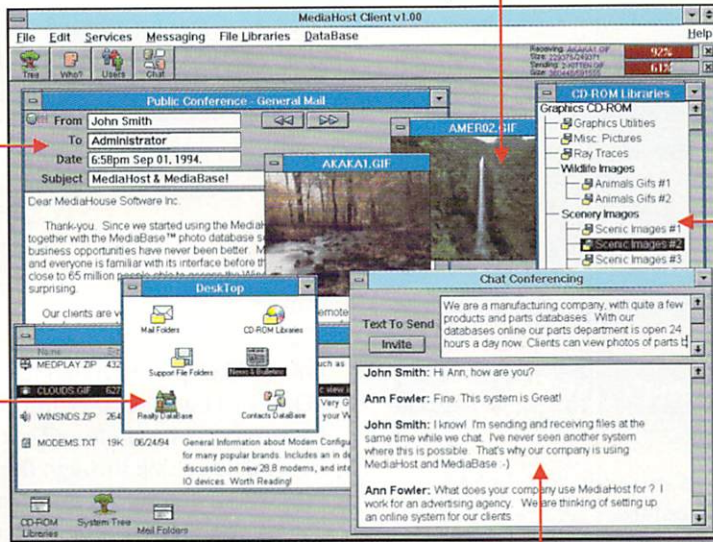
**Children
can attend
kindergarten
through
high school
solely online,
frolicking
in the sunshine
of the recess
playground
chat room.**

Put Your BUSINESS ONLINE ...

E-MAIL - Private and public message areas, user mail boxes, and file attachments all in an easy to use word processor style editor.

Users can preview graphic images from CD-ROM, hard drive or any other mountable volume.

Send and receive files while using system features such as chat, and e-mail.



MEDIAHOST

Online Server for
Windows™

Provides
**Email
Chat
Bulletins
File Libraries**



Menus, templates and screens are visually designed to suit your requirements.

Multi-user chat with Clipboard support and scroll back.

Support for Push Button, Floating Icon, Item List, and Tree List menus.

...with High Impact PHOTO DATABASES.

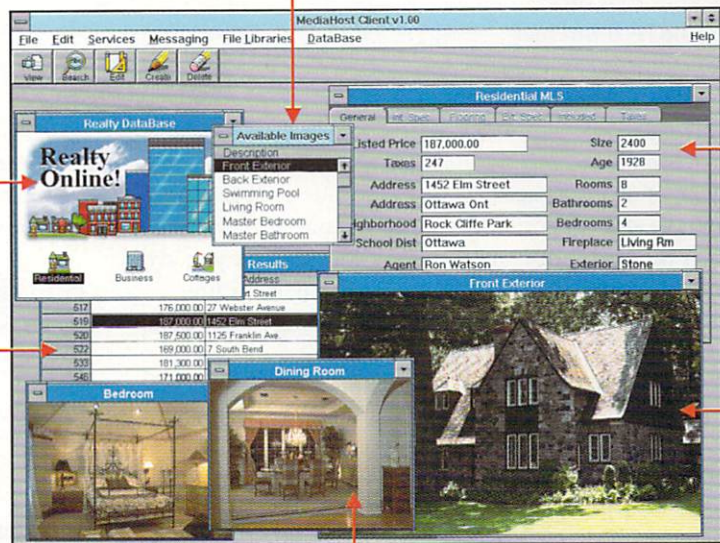
Custom database menus are easily created in the MediaHost Visual Designers and Icon Editor.

Memo fields and up to fifteen images or text files can be displayed for each record in the database.

Custom templates can be created to display database records. You decide what fields your clients can view.

MEDIABASE

Ideal for
**Cataloging
Marketing**
Works with
**dBASE®
FoxPro®
Clipper®**



Databases and query results are displayed in a spread sheet view which is used to quickly browse through records.

Images are sent seamlessly in the background using the MediaHost bi-directional protocol.

MediaBase offers support for multiple high quality 24 bit images, for each record in the database.

InterNet
Option
Coming
Soon!

Sales & Info 819-682-9737 • Demo System 819-682-3330 • Fax 819-685-0994

MediaHouse Software Inc. 32 Eardley Road, Aylmer, Quebec, Canada J9H 7A3

MediaHost and MediaBase are trademarks of MediaHouse Software Inc. All other trademarks are the property of their respective owners. © 1995 MediaHouse Software Inc.

DOS

SoloTech Internet Address Book 3.0

SOLOBK30.ZIP

by William E. Hogg M.D.

SoloTech Software

P.O. Box 44102

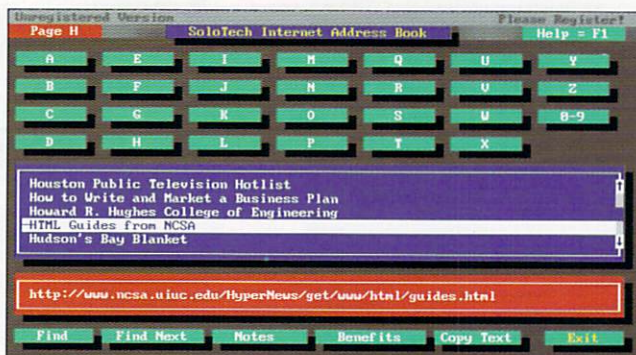
Madison, WI 53744-4102

wmhogg@execpc.com

If you're an Internet surfer (or plan to become one) the SoloTech Internet Address Book is something you might want to check out. This DOS program contains a searchable index of Internet Web, Gopher, and FTP sites.

While the SoloTech Internet Address Book's interface is not particularly user-friendly — I had a lot of trouble identifying which command was selected — there's no denying that it's full of information. Use page tabs to browse through the alphabetical listing of site names or the find feature to search through the entire list. When a site's name is highlighted in the list area, its address appears beneath it. A Notes feature lets you add notes about the sites you find. One useful note already included in the file is a World Wide Web Primer you can read, export or print.

The SoloTech Internet Address Book is distributed as shareware with a \$28.50 (including shipping and handling) registration fee. The registered version contains over 20,000 Internet Sites and addresses throughout the world, and the ability to add your own



favorite sites and addresses. In addition, registered users get the Windows Help File version for instant access while using Windows Mosaic, Netscape, Chameleon, NetCruiser, Slipknot, and other Windows Internet tools.

Windows

Glide 2.1

GLIDE.ZIP

by Phil Starkovich

81 La Pera Court

Danville, CA 94526

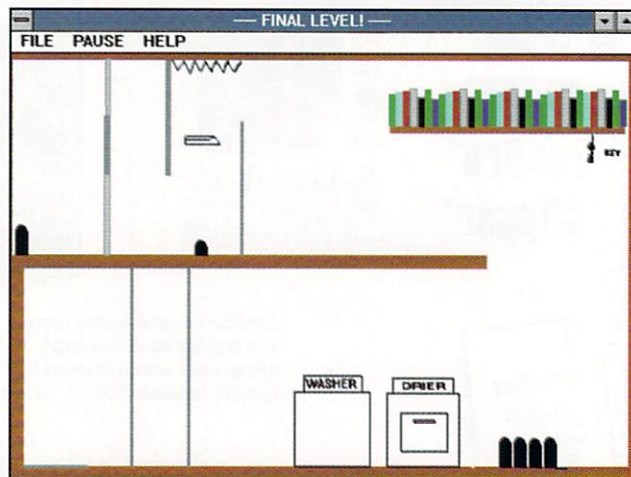
Paper airplanes take on a new twist with Glide, a Windows game where you guide a paper airplane through an obstacle course of rooms. Use air vents for lift while you avoid hitting furniture, hanging lamps, appliances, walls, and the floor. You can only steer in two directions — forward and backward — but by using air vents to move up and moving away from the vents to drift down, a skillful pilot can take his glider anywhere.

The shareware version of Glide offers

four difficulty levels, ranging from Wimpy to Ludicrous. Wimpy is indeed for wimps, as I soon found out — I had no trouble getting through the first three rooms very quickly, although I had quite a bit of trouble with the fourth. Another try on the Macho level was a bit more challenging.

As the author discusses in the Readme file accompanying the program, Glide was developed on a 66 MHz system, so slower machines will have much slower performance. While the graphics are a bit on the primitive side, the game itself should be satisfying enough, especially for younger players.

Glide requires Windows 3.1 and Visual Basic Runtime. You may use it for 21 days before paying the shareware fee of \$9. Registered users receive a code that converts the shareware version into a full version, including more levels, unlimited planes, the ability to warp to any level, and sound.



WinSpades 1.0

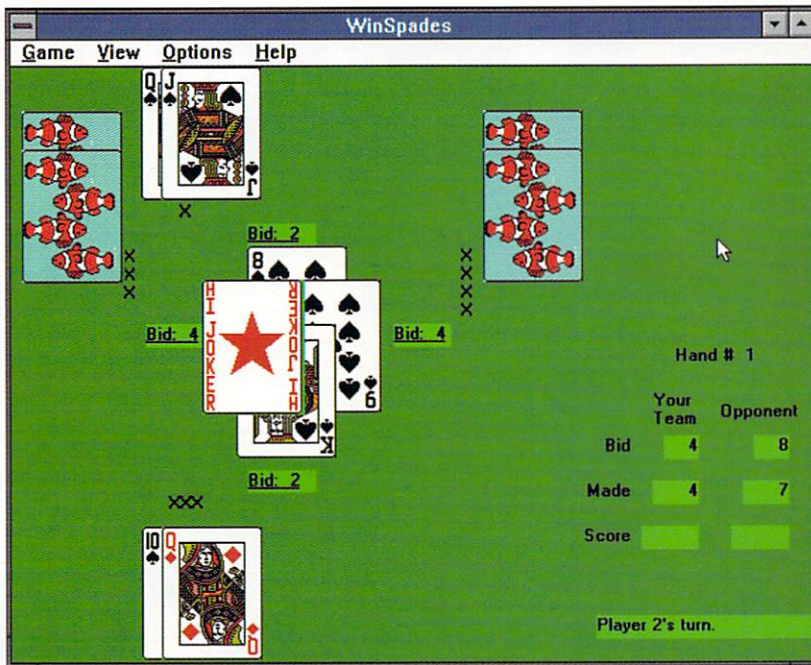
WINSPTS1.ZIP
by Dan Prather
41 Cleveland Street
Albany, NY 12206
70762.1561@
compuserve.com

For card game lovers, WinSpades offers a Windows version of Spades. Spades is similar to Hearts, Whist, and Bridge, but spades are always trump. You play against the computer and have the option of seeing just your hand, your partner's hand, or all the players' hands.

WinSpades has several features, like the ability to choose the card backs, select the minimum bid, add an extra 100 points for making a bid of 10 or greater, view the hand history, and toggle the renege warning. An AutoPlay feature can set up WinSpades to play an entire game automatically while you watch.

One feature I missed was online help explaining the rules of the game. If you don't already know how to play Spades, you probably won't be able to play until you learn somewhere else first.

WinSpades requires Windows 3.1 and Visual Basic Runtime. It is distributed as shareware, with a registration fee of \$25. Registered users get free support and a free upgrade to the next version when it becomes available.



Super CD 1.1

SuperCD.ZIP
by Russell W. Knize
Apex Software
4N442 Foxfield Drive
St. Charles, IL 60175
rknize@interaccess.com

A CD-ROM player is more than just a device for reading data from CD-ROM disks. Super CD proves it by giving you a full-featured, intuitive interface for playing audio CDs right from your computer.

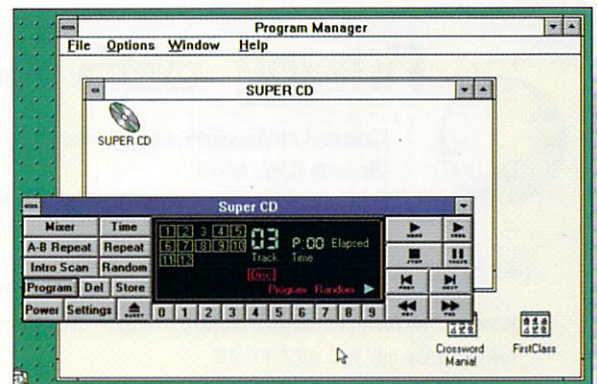
Super CD is a Windows program that works with the MCI CD driver. It offers a full range of features you'd expect to find on a

regular CD player: direct access to any CD track, random and program modes, repeat, skip, and four-format time display. It also offers a few features most CD players don't have, like the ability to store disc programs. A Mixer button lets you change the mixing/volume control of the program that came with your sound card package.

If you like to listen to music while you work, Super CD can accommodate you nicely. Just use Super CD to get a disk running and go on with what you're doing. The CD will play in the background while you work.

Super CD requires Windows 3.1 and MCI CD driver, a CD-ROM player and speakers. It is distributed as freeware, but its author wouldn't turn down any donations.

CONTINUES ...



UNCLE HANK'S SHAREWARE REVIEW NEWSLETTER

Published bi-monthly, this newsletter takes a good look at some of the best Shareware available today. Each issue contains reviews from a wide variety of areas. Always in plain English.

For a sample issue, send \$2 to: Uncle Hank's Shareware, 8 Hendrick St., Easthampton, MA 01027

Send \$10 with this ad, you can subscribe for 1 yr. (6 issues) & save \$2.

Make checks payable to Hank Hurteau



ONLINE MACINTOSH USERS GROUP

- Over 1 Gigabyte of shareware and freeware files to download
- NovaTerm graphic user interface
- Dozens of special interest conference areas
- Online electronic books
- Reviews and info
- Friendly and helpful volunteers
- FREE 2 week trial membership, with unlimited access

Get on-line and see what you've been missing. [484] 888-8904

The Online Macintosh Users' Group is a small, friendly, non-profit organization dedicated to the education and support of Mac users, from novices to pros. Nothing is more important to us than you.

Macintosh

TechTool 1.0.7

by MicroMat Computer Systems
8934 Lakewood Drive, Unit 273
Windsor, CA 95492

Looking for an inexpensive system tool to help you troubleshoot and clean up problems on your Mac? How about a free one? Then look for TechTool, a freeware utility application that performs several helpful functions.

TechTool helps you track down problems by scanning your system files for damage. It can also perform two maintenance operations better than you can: thoroughly zap the PRAM and rebuild the Desktop from scratch. And if you're looking for information about your Mac, TechTool will provide drive and system information, the date your Mac was made, and the amount of time your Mac has been used. It can print any screen or save its contents to a text file.

TechTool requires System 7 or later running on any Mac. It includes Power



PC code so it will run native on a Power Macintosh.

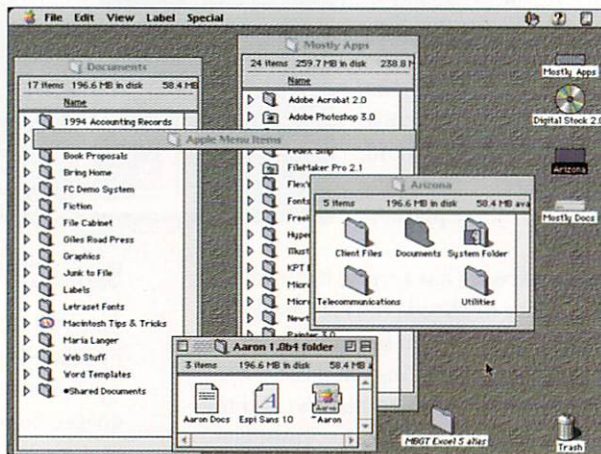
Aaron 1.0b4

by Greg Landweber
P.O. Box 382138
Cambridge,
MA 02238-2138
greg@math.harvard.edu

Copland fever is upon us and Greg Landweber, author of Greg's Buttons (reviewed in the August 1995 Sharewaring column), has given us a pacifier until System 8 is available. Aaron, which was still in beta when I got my hot little hands

on it, transforms your Mac's windows, icons, menus, scroll bars, and buttons into decidedly Copland-looking objects.

Aaron consists of a system extension and screen font. You drop them onto your System folder, click OK to let your Mac put them into their proper places, restart. The transformation, which is not customizable like the real thing will be, is immediate and global. You'll see changes in every window and every dialog box. The font, Espi Sans 10,





Nitelog BBS 45Nodes

**Fidonet / Internet Email / Usenet
Rime & ILink Mail
DOS / OS2 / Windows / Amiga / UNIX /
MAC / Adult files Areas**

(408) 655-1096 v.32bls 655-8298 28.8k

**Internet: Telnet/FTP/Rlogin/Gopher/Finger/Whois
Telnettable at: 165.227.94.25**

The Ultimate Resource for Supercharging Your BBS

EXPANDING YOUR BBS

CD-ROM INCLUDES:
• UUCP Internet Connectivity Software
• Game Drivers, Callback Drivers, and QWK Drivers
• ANSI and RIP Drawing Utilities
• And the CD-ROM is BBS-Ready!


DAVID WOLFE
THE BBS CONSTRUCTION KIT

ISBN# 0-471-11566-5 \$34.95 w/CD-ROM

Available at Bookstores Everywhere

For more information email
compbks@jwiley.com

Also available
The BBS Construction Kit
(ISBN# 0-471-00797-8)
\$27.95 w/disk



OLS Your Discount BBS Source!

On-Line Services

Wildcat! BBS v4.x Single Line \$78

The Major BBS v6.x 2 User \$149

TBBS v2.x 2 User \$189

Wildcat! BBS v4.x Multiline 10	\$163
Wildcat! BBS Suite v4.x	\$669
wcPRO, wcGATE, wcCODE	CALL
QModem Pro for DOS or Windows	\$69
QModem Pro for Windows Network 5 Pack	CALL
The Major BBS v6.x 8 User Bundle	CALL
All Major BBS Add-On's by Galacticom	CALL
Searchlight BBS v4.x Single Line	\$89
Searchlight BBS v4.x 10 Line	CALL
DesqView 386 w/QEMM	\$105
ModemBase Pro (online database software)	\$129
Wildmail! (Fido mail tosser for Wildcat! BBS)	\$89
DigiBoard PC/8e	\$489
DigiBoard PC/8i	CALL
USRobotics Sportster Modems	CALL



BananaCom
sold here!



(800) 597-6160

ORDERS ONLY
(909) 369-3251
Technical Sales

(909) 686-5636 FAX
(909) 369-6556 BBS
3839 Brockton Ave.
Riverside, CA. 92501

replaces Chicago in the menus. The overall effect is very pleasing.

Aaron requires System 7 or later. The beta version I looked at had a few known (and documented) problems, but none of them was serious. The bugs should be ironed out before Aaron goes final (which should be before this column hits the stands). It is distributed as shareware with a \$10 registration fee.

Newton

Okay, so I bought a Newton. Everyone needs a new toy now and then. Here's something for the other Newton users out there.

Solo Deluxe 1.62

by Renaud Boisjoly
3421 Aubry
Longueuil, Quebec
Canada J4M 2W4
arby@apple.com

Solo Deluxe is a collection of three forms of solitaire — Klondike, Canfield, and Pyramid — that you can play on your Newton.

Solo Deluxe is well thought out and,

if you're hooked on solitaire, a lot of fun to play. Choose a new game, then tap or drag cards to play. The Preferences feature lets you change card style and backs (if at least one additional deck file is installed), customize the way cards are dealt for Klondike and Canfield, toggle sound effects, and automatically set up one of the three games when Solo Deluxe starts. Its online help feature, when installed, not only tells you how to use all the game's features, but how to play each game, cheat, and save RAM. You can even iconize the game to put it aside in case you've got some real work to do.

Solo Deluxe consists of four Newton package files: the application, a help file, and two extra card decks with sounds. Fully installed, Solo Deluxe takes up a healthy 200 K of your Newton's precious RAM, but if you install only the application file, you can save about 70 K. It's distributed as free-ware, but if you send the author an email message, he'll automatically send updates right to your mailbox. How's that for service?

Finding these Files

If you have trouble finding any of these files, check the following two free sources:

World Wide Web:

<http://intac.com/~gilesrd/> From the Giles Road Press home page, link to the brand new Sharewaring page where all the files discussed in this column can be found.

The Electronic Pen BBS: 201.767.6337. This FirstClass-based system offers software and conferences for everyone. Download the graphic user interface Client software and custom settings file while online. Visit the Giles Road Press area to find any shareware product discussed in this column. ■■■■■

Maria Langer is a freelance writer and computer consultant based in Harrington Park, NJ. She is the author of many computer books, articles, and reviews, including the upcoming Peachpit Press book, Excel for Windows '95 Visual QuickStart Guide. Contact her at gilesrd@intac.com.

Online Income

Free Report on how to go from \$0 to \$5,000 a month in Online Income in as little as 120 days!

This unique report reveals how even a little guy can be a real player on the information superhighway. It contains money-making information on exciting new online business opportunities including the Internet, BBS, and various other hot Online Services. You'll learn how to:

Get up and running in as little as 2 weeks

- 3 ways to fund your service including ultra secret leveraging techniques that most high powered tax/financial lawyers don't even know.
- How to set up a board with no software costs.
- 7 techniques to save from \$2,000-\$5,000 when expanding your system.

Generate your cash flow in as little as 6 more weeks

- 5 proven ways to generate income from your callers... even with no subscription fee.
- 9 specialized techniques for increasing your subscriber base.

Achieve \$5,000 per month in as little as 8 more weeks

- 11 marketing secrets to multiply your income rapidly (and at little or no cost).
- 4 little known hidden revenue producing sources that could take your income up to \$10,000 per month. Limited availability.

InfoLink 56925 Yucca Trail, Suite 254-CD10, Yucca Valley, CA 92284
619/228-9653 FAX 619/369-1185 Internet cch-as@ix.netcom.com

Prepared by the publishers of the book:
The Complete Business Guide to a Profitable Internet, BBS, or Online Service.

IN THE FEET OF THE NIGHT

A very classy BBS
solely for the foot lover

We publish our own original images

- ◆ chat rooms ◆ online shopping areas ◆ Internet ◆
- ◆ highest quality scans ◆ email ◆ Usenet ◆
- ◆ Multiple lines + expanding ◆ 18 & older ◆

MODEM: (717) 427-FEET (3338)
INTERNET: inthefeetofthenight.com

MasterCard MindWire software from Durand Communications VISA



By Hank Hurteau

Following are top downloads as recorded last month on three BBSs across the U.S. Look for them on your favorite local BBS, too.

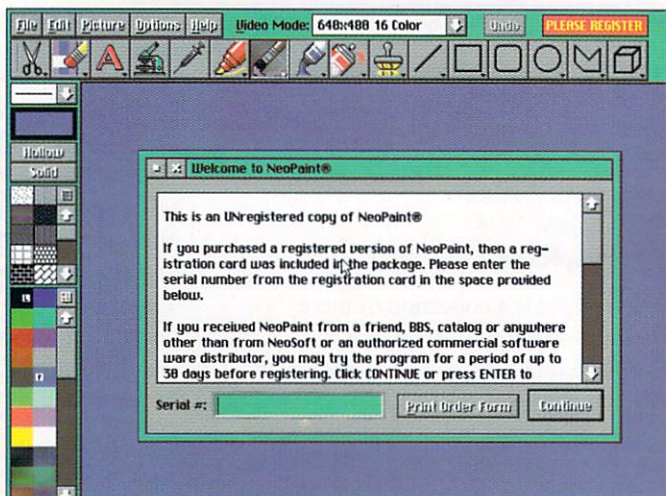
Files such as QWK packets have been omitted, as have any graphic files. Descriptions are generated by author or bulletin board.

Programs carried in the "Top Ten" download list don't necessarily denote a good program, of course — just one that's frequently downloaded. You'll have to be the judge when it comes to quality.

And keep in mind: always look for the latest program, as one of the advantages to using (and registering) shareware is that you'll be privy to the frequent updates.

Shareware Monster 408.577.0509

- 1 **BWAVE212.ZIP** 318902
Blue Wave Mail Reader v2.12 — Updated version with assorted bug fixes. Also, new features include the ability to delete unread messages and adjustable settings to view ANSI sequences at either slow, normal, or fast speeds.
- 2 **0151TER1.ZIP** 599098
TERMINATE 1.51. The Final Datacomms Terminal. Online help for novices, but with all the flexibility experts require. Fax and Network support. CD Audio Player, complete Point system, Cost Manager, VISIBLE FAST (tm) mousing. IEMSI and autologins.
- 3 **0151TER2.ZIP** 526114
TERMINATE 1.51, Disk 2 of 2
- 4 **BCOM15.ZIP** 100450
BANACOM is a very simple com program. Excellent for the first-time modem user and perfect for people who help other people use modems. Provides auto ZModem, auto ANSI/VT100 terminal emulation, dialing directory stored as a text file, auto port/speed detect and much more.
- 5 **GDS31G.ZIP** 381278
GDS: Graphic Display System 3.1g — Views, thumbnails, converts, flips, rotates, crops, scales, dithers, GIF, JPG, PCX, TIF, IFF, LBM, DL, HAM, BMP, RLE, TGA, MAC, WPG, CUT, ANSI, TXT, IMG, PBM, CUT, GL, FLI, MPG. CGA-SVGA. QUICK, EASY & MOUSE DRIVEN, complete hypertext help and prints 100+page manual.
- 6 **DBPERL10.ZIP** 509856
The Internet Pearls Database — Huge database of valuable Internet information: hundreds of sites, hundreds of pointers to What's Best on the Internet. Full-fledged database: Add, Delete, Sort, Query, Find, Import, Export, and Print Data to customize your Database of Important Internet Connections.
- 7 **QPEG15.ZIP** 465466
QPEG386 1.5e, the famous grafx viewer — incredibly fast, with unique preview feature (nearly realtime), mouse panning etc. Supports VGA and



- many SVGAs (including VESA), requires 386 or better. Currently supports JPG, TGA, GIF, PCX, and BMP files.
- 8 **VFC2_0A.ZIP** 61179
vFAST v2.0 (c) International TeleCommunications vFAST is just what the name implies: a very fast protocol. It'll run circles around Zmodem. vFAST uses DUAL 16-bit CRCs to protect data, has RESTART recovery for aborted transfers as well as SKIP for files you already have. vFAST was designed specifically for v32, v32bis, and vFAST modems.
- 9 **2SHOW106.ZIP** 186797
Release 1.06a of COMPUSHOW 2000. A hot new interface and all the graphics capabilities of CompuShow, the full-featured graphics display system for GIF, RLE MacPaint, PC Paint, PC Paintbrush, ColoRIX, EGA Paint, IMG, Dr. Halo, Targa, IFF/LBM/HAM, BMP, Tiff, and JFIF (JPEG) graphics on IBM compatibles with Hercules. CGA, EGA, MCGA, VGA, 8514/a, XGA, VESA and Super-VGA adapters, including hi-color SVGAs.
- 10 **CSHOW900.ZIP** 264950
COMPUSHOW v.9.00a. The full-featured graphics display (and conversion) system for GIF, RLE, MacPaint, PC Paint, PC Paintbrush, ColoRIX, EGA Paint, IMG, Dr. Halo, Targa, IFF/LBM/HAM, BMP, Tiff, JPEG, RIP Icon, PBPLUS, and PNG graphics on IBM compatibles with Hercules, CGA, EGA, MCGA, VGA, 8514/a, XGA, VESA and Super-VGA adapters including hi color SVGAs.

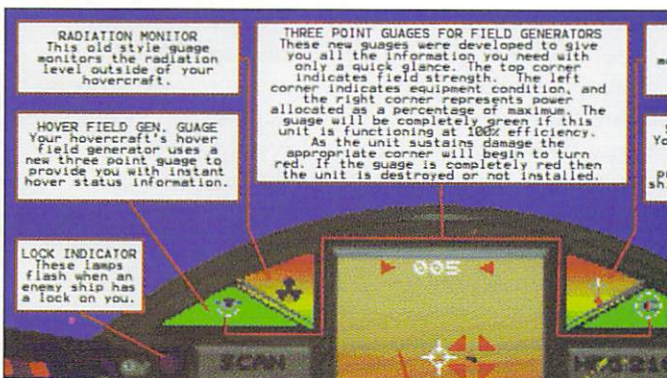
Digital Illusions 402.721.4190

- 1 **HTIC_V10.ZIP** 2876540
HERETIC is a supernatural blast-fest that's the most realistic, action-packed fantasy combat computer game for the PC. Created by the graphic masters at Raven Software in concert with the technical gurus of id Software, Heretic adds new levels of play and graphic wonder to the tried and true DOOM gaming environment. 486-33, four megs RAM, VGA, 10 megs HD space RSAC ADVISORY (tm), Violence: 3, blood and gore.

- 2 **10MF2097.ZIP** 2741769
ONE MUST FALL 2097. Welcome to the future of fighting from Epic MegaGames. In the year 2097 steel will bend and sparks will fly. You control a massive robot through match after match of strategic fighting action. Blazing animation, stereo music and sound for all major sound cards, one- or two-player action. A true Mortal Kombat and Street Fighter killer. Try the largest shareware game ever created.
- 3 **BILLYKID.ZIP** 516384
BILLY THE KID 1.0 from Alive Software. A 3D VGA Western action arcade game. Many levels, 256 color scrolling action. Escape from prison, survive the New Mexico desert, rattle snakes, buffalo, bombs, gunmen and other surprises. Explore the old man's mine and his army of mice, fight with gangs, cross Ghostowns, find treasures, face deadly enemies, Apache warriors and Sheriff Pat Garrett's lethal six shooter.
- 4 **#1ROTTA.ZIP** 1317162
RISE OF THE TRIAD: THE HUNT BEGINS. 3D Shareware by Apogee Software. "ROTT will have every DOOM freak in the world lining up just to drool over it!" IE Mag. Requires 386DX+, four megs of RAM & local BUS video. ROTT is a realistic, 3D action game. 10+ weapons, huge levels, modem/network play. Midi music and digital sounds for all cards. Digitized enemies, intense action, realistic playability. Uses multiple game controllers.
- 5 **#1ROTTB.ZIP** 1289239
RISE OF THE TRIAD: THE HUNT BEGINS! Disk 2.
- 6 **#1ROTTC.ZIP** 1286796
RISE OF THE TRIAD: THE HUNT BEGINS! Disk 3.
- 7 **CDPLAY34.ZIP** 315991
CDPLAYER v3.4. Windows Audio CD Player for both Windows and DOS. Provides all the functions associated with a normal CD player together with the ability to catalogue and search your CD collection. Features include custom, single, shuffle, and repeat program play. Fit tracks to time, track skip, music search, replay track and pause. Plus browse through Disk catalog.
- 8 **DOOM12-A.ZIP** 1453993
DOOM is a fast-moving virtual reality game in which you are plugged into a brutal 3D world. The one others are judged by.
- 9 **DOOM12-B.ZIP** 803682
DOOM Disk 2
- 10 **NEOPNT3.ZIP** 658269
NEOPAINT v.3 — A complete image editing/paint program for DOS. Includes powerful features and naturalistic tools (such as oil and water colors) usually found only in more costly apps. Resolutions up to 24-bit. Supports PCX, GIF, TIFF, BMP formats. One of the best.

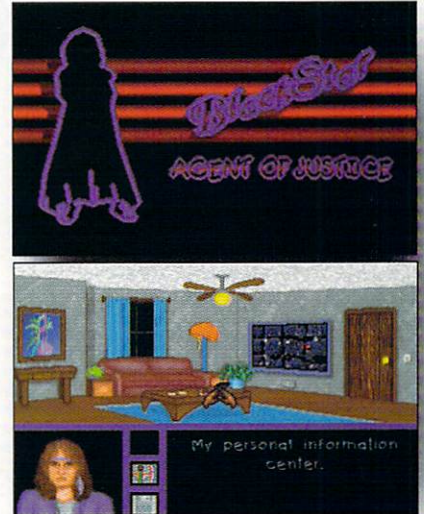
Uncle Hank's BBS 413.527.8977

- 1 **PKHELP.ZIP** 35579
Just how do you use PKUNZIP anyhow? This is a graphical demonstration of the fundamental techniques required to use the PKUNZIP program to unpack files from archives. Designed for the computer novice and/or those who have never used an archiver before.



Beyond Armageddon

- 2 **CDQCK120.ZIP** 171314
CD-QUICK Cache v1.20 <ASP> A finalist in the '95 Ziff-Davis Shareware Awards. CD-Quick will improve the performance of any CD-ROM drive by storing frequently read data in fast XMS memory. Uses advanced caching techniques for top performance. Includes CDTEST to measure your CD-ROM drive's performance and the Windows' QUICKMON program to show cache statistics in real time. For DOS/WIN.
- 3 **FIREICE.ZIP** 558777
FIRE AND ICE 1.0 From Streetwise Interactive. Already a retail hit in Europe, this translation of the smash Amiga arcade game is now available for the PC in America, as shareware. Guide Cool Coyote in his quest to save the world. This is arcade action at its finest.
- 4 **LEMM3D.ZIP** 2775909
LEMMINGS 3D. Contains subdirectories. They're back, in a 3D texture mapped world. You can rotate, scale, zoom, record. This demo has 28 of the 100 levels in the final CDROM version. REQ: 386DX40+, 560k conventional, 3M EMS, VGA. Optional: mouse, Cyberman, SVGA, Soundblaster.
- 5 **PRTSC100.ZIP** 7441
HOF Send PrintScreens to file instead of PRN. 1k TSR allows toggling the output of the PC Printscreen function between printer and disk files. Also useful if there's no printer attached (as with most BBS machines.) Can be uninstalled. Free
- 6 **SCAN4DLL.ZIP** 36196
Freeware from Software Innovations. This program will assist in discovering what are used by a particular program. (Useful when want to remove a Windows program from your system.)
- 7 **BLAKSTR.ZIP** 631122
BLACKSTAR — AGENT OF JUSTICE. Evil lurks in the city. Innocent victims killed for pleasure. Soon death becomes personal. And the Agent of Justice seeks revenge. A brand new, exciting graphic adventure game. Mouse driven, intuitive point and click interface.

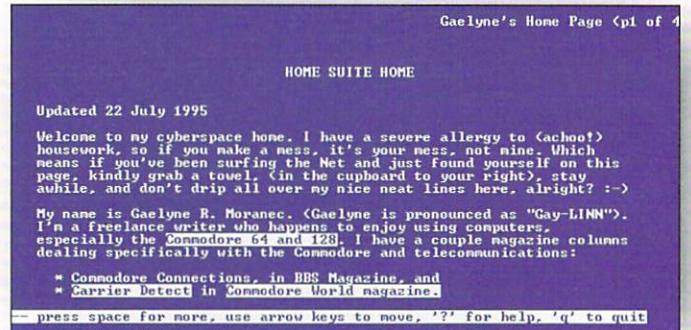


- 8 **USHF.ZIP** 1203874
BEYOND ARMAGEDDON: USHF Hovercraft Combat Simulator. Pilot your futuristic hovercraft over post Armageddon desert terrain. Engage Rebel fighters with your rotating top-mounted laser turret and seeker rockets. Up to eight simultaneous digital sound effects.
- 9 **1CRU116.ZIP** 557662
STARDATE 2140.2: Crusade in Space, by MVP Software. You are the Commander in this new interstellar conflict game for Windows. Build up your fleets, plan your strategy, invade planets, and conquer the galaxy. Unless, of course, your enemies do so first. Requires Windows, VGA.
- 10 **1GLAD35.ZIP** 493021
GLADIATOR is a gauntlet style real-time arcade game where you (red team) must set out to destroy all other teams in a variety of scenarios. Use the picker (picker.exe) to select a scenario to play. Each scenario gives you access to a variety of character classes, some with interesting special abilities. Your goal in each case, destroy all your opponents with as few team losses as possible.

Hank Hurteau can be reached at unkhank@crocker.com

Lynx-ing to the Web

It's everywhere you look... turn on the TV and there's yet another demonstration: the Internet and its World Wide Web. The visual aspects of this Web make it easy for the media to talk about the Internet using WWW as its backdrop. But what about those of us with the cutting edge of Commodore computers? Do we have a place on the World Wide Web? It's one thing to simply access the Web, and another altogether to be able to make use of it. Rest assured, Commodore users can do both.



The World Wide Web might be the most aptly named area of the Internet, for it is just that — a tangled, twisted maze of cross-references between documents and other systems. It's a means of sharing information (and finding it) in a very creative format, with text, graphics, and even sound. One user can list their interests and have “links” to other places on the Web that they've found which match their interests, and so on, until it's like viewing a mirror within a mirror to infinity. However, unlike mirrors, which don't change, Web pages do. They're easily updated and there's likely at least one page for every interest you can imagine, and if not, it'll be there tomorrow. It's growing almost as fast as the Internet itself has grown — exponentially.

While it's true that Commodore users don't have a GUI (Graphical User Interface, or gooey) with which to view the Web sites, we do have access to “text” browsers, most notably Lynx. This is available on almost every service offering Internet WWW access (not to be confused with the Commodore archiving program). The text browser Lynx isn't a Commodore program, but rather a utility that can be accessed from your Internet provider. If the service you use doesn't have it, simply Telnet to another site to use it. Set your terminal emulation for either ANSI or VT-100, then Telnet to: lynx.cc.ukans.edu and log in as “lynx.” This starts Lynx and gives you your first glimpse of the World Wide Web. You won't be able to go to specific links, but can still browse the Web and find Commodore support.

Each place you connect to on WWW is referred to as a “page.” A business or individual can have a “home page”

which can have other Web pages the home page connects to. When viewing a Web page with Lynx, the first thing you'll notice is that portions of the text are highlighted. (These are the "links" I mentioned earlier.) Lynx displays a screen of text at a time. To move through the page, you can use the space bar to have the next screen displayed, or you can use the Cursor Down key to hop from one link to the next. To actually go to the link the cursor is on, just press return. It can sometimes take a while for Lynx (or any other browser) to load the data from the site you've chosen, so patience is needed. If you get tired of waiting you can press the "z" key which will set you free to select another link. Return to the last page you were on by using the Cursor Left key.

Some places you visit may have one or more "image" links. These are the images that are viewed when someone with a graphical interface visits the page, like you've probably seen elsewhere in this magazine. If the person who designed the page had foresight, the image may be highlighted so you can download the file to view later using Commodore programs such as GIFFY.ARC, VGIF64.SFX for the 64, GDS.SFX for the 128, and even GEOGIF.SFX to convert the GIF file to a geoPaint file to view using GEOS. Web sites have their own form of addressing, called "Uniform Resource Locators" or URLs (pronounced "You Are els" or "Earls") for short. Each link on a Web page has a URL used by the browser to find the information you select. A typical URL looks like this:

http://www.msen.com/~brain/guest/Gaelyne_Moranec/index.html

The first part, "http", tells the browser that it will be using the HyperText Transmission Protocol. HTTP is two things: the method of connection to the site, as well as the formatting of the document that it will be retrieving. HyperText refers to the way Web sites are formatted, the highlighting and other formatting features. The

`//www.msen.com/~brain/Gaelyne_Moranec/index.html"`

portion of the URL is where it should find the file to display. This includes the system name (www.msen.com), the directory path, and the file name, which in this example is "index.html". Other Internet features, such as FTP, Gopher or the Usenet newsgroups can also be URLs, and accessed via Web pages. The URLs for these begin with "ftp://, gopher://, or news://.

Getting the Most from Lynx

There are some pretty neat things you can do with Lynx as your browser, but it helps to know what it can do for you, and it's often helpful if you change some of its options to suit your needs. If you've had to Telnet to access Lynx, you may not be able make use of some of its options, but you can configure it to function in a way you're comfortable with. From within Lynx, press the "o" key and a list of options will appear. You can change how links within a Web page appear, as well as how you move around the pages by changing "Keypad as arrows or as numbered links." If you're using a Commodore 128, you might want to leave it as "keypad as arrows." This lets you use the 128 numeric keypad as if they had arrows on them. The 2, 6, 8, and 4 keys act as arrows facing down, right, up and left. Lynx uses the up and down keys to move forward

(down) or back (up) while viewing a Web page. The left arrow returns you to the page you were on previously (if any), and the right arrow is the same as selecting a link (as if you had cursor to it and pressed return). The other option, "keypad as numbered links," displays each Web page with the links numbered so you can just type the number and press return to select the link.

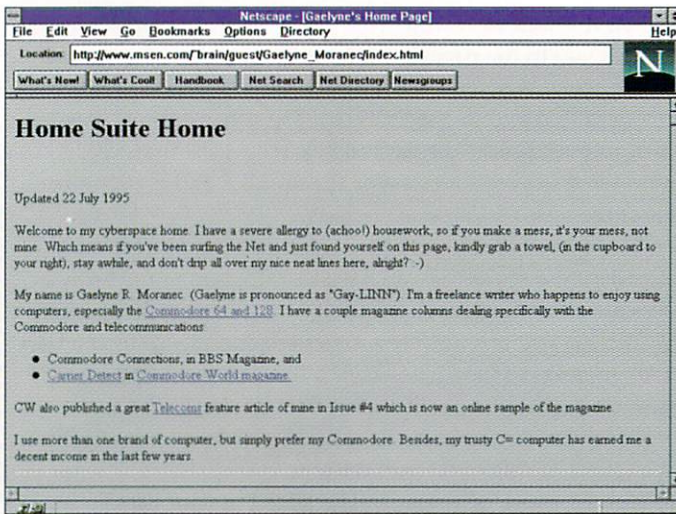
The option "Bookmark file" refers to a file you can have stored on the system (if you haven't Telnetted to the browser) which will let you save the URL of a Web page you've visited, in a file, so you can quickly access the same site again at a later date. In order to have a bookmark file, you must first give it a name in this menu. I called mine "bookmark.file." Once you've defined a name for this file, if you're on an interesting Web site and think you would like to come back to it again in the future, press "a" and it will be added to your file. To access the bookmark file, hit "v" (for "view bookmark"). The file displayed will look like a Web page, and from here you can to select one of the sites you've previously bookmarked.

Back to changing options, "Editor" is the name of the text editor used whenever you send email from Lynx. This option will not be offered if you're using Lynx via Telnet. Without an editor defined, you can still send email messages using Lynx's line editor. If this is already defined for you, leave it as is unless you don't like the text editor your service uses, in which case you can delete the name, causing Lynx to give you its default line editor. "Personal Mail Address" is your email address, which Lynx will insert into any messages that you send while browsing the Web. Adding it to the Lynx Options file saves on typing (and typos), and is used by some Web sites to automatically greet you with the name in your email address.

Other Lynx options that you can change to suit your preferences are FTP Sort criteria (how FTP directories are displayed), Searching type (case sensitive or insensitive when searching a Web site for keywords), and User modes. The User modes available are novice, intermediate and expert, which relates to what is shown at the bottom of the screen. Novice mode displays two lines of help text to remind you of some of the things you can do within Lynx. Intermediate displays nothing at all, and Expert shows the URL for the link that the cursor is on. The options we don't need to worry about (or change) are Display variable (which is for X-Windows users), Character set, Vi keys, Emacs keys, Local Execution links, and List Directory style. When you've finished making changes, use the ">" key to save the changes, then "r" to return to the page you were viewing.


The most useful command I've found in Lynx is the ability to grab the text from the site you're viewing without the need to buffer-capture the text. Press the "p" (for Print) key while viewing a site and a menu will come up with various options depending on how you've accessed Lynx. At the very least, you will be able to email the text of the document to yourself, or you can save the text to a local file on your host system to download later. This is especially convenient when researching a project, and it's less time consuming than trying to buffer the page. The "s" key lets you search for keywords and the "n" key takes you to the next match of your search string. If the

CONTINUES...



display of the page is less than neat, (sometimes the highlighted text from a previously viewed page can cause the current page to have "leftovers"), you can press CTRL-w to have the screen redrawn. If you'd like to see where you've been, and perhaps return to an earlier site you've viewed, pressing the delete key will bring up a "History" list of the pages you've visited during your current session. It's quite similar to the bookmark file, but will contain only places you've been to during your current session.

Once you've become experienced at Web surfing, you may have thoughts about developing your own home page. There's absolutely no reason why you can't have one of your own. Mine (in the examples here) was designed and developed using only my Commodore computer. I created it to display how a user can provide support for their Commodore computers by having a presence on the World Wide Web. If you're interested in learning more about Lynx or creating Web pages, information is available by pressing the "h" (for Help) key within Lynx. This will connect to a site that has the Lynx User Guide as well as further guides on how to create the HyperText files used by the Web. To place information on the WWW for others to view, you'll need to either find a service provider that will allow you to create WWW pages and place them online for viewing, or place your WWW page creations on someone else's WWW site. My home page is a combination of both these options. I wrote the text and formatted each



MEET BEAUTIFUL ASIAN LADIES!

WorldClub BBS

- Asian Penpal Ladies
- Hot Adult Asian Graphics
- Exotic Travel Information
- Adult BBS Features
- Hot Adult Forums
- Internet E-mail & Newsgroups

Romance, Friendship, Love, Correspondence. WorldClub features a rotating filebase of hundreds of GIF color photos and bio-data of attractive Asian ladies overseas who want American penpals. New files added regularly. Instant access with Visa/Mastercard. All high speed modems.

OVER 18 ONLY 301-203-0281 8-N-1

page using my word processor. I then uploaded each page to the system I'm using in Australia - Hal9000. After viewing them and fine tuning them online a bit, each page was then electronically mailed to a site maintained by Jim Brain where it was placed in a directory for me by an automated mail process. My home page can be viewed at either <http://hal9000.apana.org.au/~moranec/index.html> or http://www.msen.com/~brain/guest/Gaelyne_Moranec/index.html. Jim Brain has made his automated service available to Commodore users who feel they have something to offer the Commodore Internet community, but don't have someplace to call "home" in terms of having a WWW site. For more information about his offer, send email with the subject of "help wwwservice" to brain@mail.msen.com.

There are several places on the World Wide Web for Commodore users who want to have up-to-date information. CBM Web sites include online magazine samples, product catalogs, access to programs, graphics, SID music, and even newspaper articles. Here's a sampling of Commodore WWW sites to check out that will have links to other CBM sites. If you've had to Telnet to use Lynx, you won't be able to go directly to these sights, but when moving around on the Web, you can easily find a link to the Yahoo index. Once there, find the computers section and work your way to the Commodore section. From there, most of the URLs below will be accessible to you, and in turn, they have links to other Commodore sites. Enjoy your surf time!

Jim Brain's Main US CBM Site
<http://www.msen.com/~brain/cbmhome.html>

COMP.SYS.CBM FAQ files
<http://www.msen.com/~brain/faqhome.html>

Creative Micro Designs
<http://www.msen.com/~brain/guest/cmd/index.html>

Commodore World magazine
<http://www.msen.com/~brain/guest/cmd/cwhome.html>

LOADSTAR and LOADSTAR 128 disk magazines
<http://www.wbcom.com/~softdisk/c64.html>

Craig Bruce (author of ACE13)
<http://ccnga.uwaterloo.ca/~csbruce/index.html>

Usenet C= Hacking Magazine
<http://www.hut.fi/~msmakela/cbm/hacking/>

Commodore 64 Games Home Page
<http://www.nada.kth.se/~d93-alo/c64/>

Demo Scene Info
<http://www.cs.tu-berlin.de/~poing/>

Yahoo CBM Index
<http://www.yahoo.com/Computers/PCs/Commodore/>

Gaelyne Moranec is a freelance writer and co-sysop of Ancient Heart BBS in Saginaw, Michigan (currently residing in Australia). She can often be found in the Fidonet CBM echo. Comments or suggestions can be sent to 1:366/221.128, 3:800/809.128, or moranec@hal9000.apana.org.au



ULTIMATE BBS E-mail Management Tool!

- **Stop wasting on-line time and money.** Why spend valuable on-line time just reading mail? Off-Line Express (OLX) from Mustang Software lets you download your mail, log off and read it on your own time so you can spend your on-line time transferring files, chatting or gaming.
- **OLX gives you freedom** to properly research and prepare your messages and replies. Use the built-in editor to import and format data, add your own comments, check for mistakes with a built-in spell checker – even save copies of your message for future reference or distribute to other BBSs.
- **No more looking through stacks of business cards** or paper scraps for E-mail addresses. Store long Internet addresses and mail routing information in one integrated address book.
- **OLX's powerful search engine** lets you scan the current conference, current mail packet, or all open packets for any word or combination of words in seconds. You don't need to spend hours scouring thousands of messages for information on a few topics.
- **Maintain a record of every message** you send or receive. OLX automatically stores your personal E-mail in folders for easy reference, even long after the original mail has been deleted. You can also define custom folders to save any message or group of messages for later retrieval.

The professional QWK mail reader from the experts who brought you Wildcat! and QmodemPro!



Works with Wildcat!, PCBoard, Major BBS, TBBS, and any other QWK-compatible BBS.

All this, and it's easy to use! Call 800-663-1886 for more information or to place your order.

DOWNLOAD OUR DEMO TODAY!
MSI HQ BBS 805-873-2400



Connecting The World

Mustang Software, Inc.
6200 Lake Ming Road
Bakersfield, CA 93306

Phone: 805-873-2500
FAX: 805-873-2599

e-mail address:
sales@mustang.com

Web address:
www.mustang.com



For Windows

Available through Software, Etc., CompUSA, Fry's and other fine software outlets everywhere.
Call 800-663-1886 for more information.

\$49
Suggested Retail Price

The MSI Horse and artwork, Off-Line Express, OLX, QmodemPro, Wildcat! and Connecting The World, are trademarks of Mustang Software Incorporated. All other product names are trademarks of their respective companies. ©1987-1996 Mustang Software, Inc. all rights reserved.

Motorola's LifeStyle 28.8

High speed. Low price. Great security

Last time I offered a look into the artful use of chaos in the modem industry. I also mentioned some surprising new entries into the market: several inexpensive alternatives for sysops and other information providers, examples of which include offerings by AT&T, PPI, USR, and now Motorola.

When delving into the elements involved in chaos, it is easy to lose focus, become distracted, and lose track of the real issues. That said, permit me to be your native guide through the world known as the Motorola LifeStyle 28.8 desktop modem.

Inside the sleek white case of this data/fax device is an ITU-T compliant V.34 asynchronous modem. Along with V.34 (28,800) it supports all the lower speed ITU-T standards such as V.32bis (14,400), V.32 (9600), and V.22 bis (2400 and 1200). Of course you'll find Bell 212A and 103 (1200/300) support as well.

What you will not find in this modem (street price of about \$225) is the very popular industry alternative V.FC for 28,800. For the purist this may be fine. But for many sysops, not being able to support the hundreds of thousands of V.FC compatible modems in the field may be too limiting. Note that V.34 is the industry standard, not V.FC. — Motorola seems to be targeting an ITU standard product.

Further evidence is the absence of the less popular data protocol V.32 terbo (19,200). While this was far from a perfect protocol, some manufacturers have included it for compatibility. At the time of this writing Motorola had further publicly stated on the Internet their intent to not support the new so-called V.34 plus (33,600) now released in AT&T and US Robotics modems. If this proto-

col does make ITU-T approval as rumored, however, expect Motorola to quickly adopt the standard in their line.

For the fax side of the LifeStyle we again see the ITU-T standards nicely adhered to. The ITU-T V.17 (14,400) and V.29 (9600) fax standards are here as well as V.27 (4800/2400) and V.21 (300). These are pretty standard options for a Group 3, Class 1 fax modem. What's missing is the support for either the industry standard Class 2 or the ITU Class 2.0 standard.

No, that's not a typo. There is a difference (subtle as it is) between Class 2 and Class 2.0. But many software packages now support Class 2. Support for Class 2.0 is quite slow in coming, but will probably be the eventual winner. Perhaps this feature will come about in a future release of code for the unit.

The LifeStyle has all the standard status LEDs. I also like the twist they've added to the high-speed (HS) light. Constant ON indicates 16,800, 19,200, 21,600, 28,800. OFF indicates 4800, 7200, 9600, 1200, or 14,400. HS flashing shows 300, 1200, or 2400. This is much more helpful than a basic high-speed or non-high-speed indicator.

Another nice touch is the factory default NVRAM settings. Normal DTR, RTS/CTS hardware flow control, and extended connect messages are all part of the default. No magic needed to get the LifeStyle up and running on your average PC and software. Unix or Mac configura-

tions require minimal changes to the setup string to establish variations to DCD and DSR.

Initial tests and user reports indicate the modem offers excellent V32bis and lower support. V.34 compatibility is the subject of conversation on the nets, and initial tests in the lab show the LifeStyle connects far better to itself than other vendors. The next full-scale report in the months to come will show how the LifeStyle stacks up in performance and connect-ability with the other models available.

One confusing issue with this modem came up in initial tests when the device reported "CONNECT 115200/MNP". WOW! 115,200 from V.34? No, this was an MNP connect with the DTE set to 115,200 and \V1 set. And I've seen many confused folks arguing their V.34 modem was making 38,400 connects! Be sure to set \V2 to see a much more meaningful connect message.

A nice feature not seen in some other low-cost modems is programmable security. The LifeStyle offers three levels of security: Password, Password/Callback, and Password/Callback/Password. For the sysop a password secured modem could add one more basic level of security to a private or controlled system. Password/Callback/Password is a powerful feature for the remote sysop doing remote maintenance. There are also several USER levels built into the security system. This alone makes the LifeStyle a powerful offering.

Even a Modem Mage finds a manual handy now and then. Motorola's manual is easily one of the best in the industry — their experience in the consumer market really shines here. Subtleties such as the wire binding (lays open for easy reading) and an extensive troubleshooting section make it a pleasure to read and use. Nearly half of the manual is comprised of the troubleshooting and command index sections. I wish more manufacturers would follow this lead!

CONTINUES...

TABLE I — SYSOPS HIGH-SPEED MODEM DISCOUNTS BY VENDOR AND MODEL TYPE

VENDOR/ PRODUCT	14.4K V.32bis INTERNAL	14.4K V.32bis EXTERNAL	V.32TERBO, V.FC, V.34 INTERNAL	V.32TERBO, V.FC V.34 EXTERNAL
AT&T Paradyne	3721-B1-001* \$150	3710-A1-201* \$165 PC; \$190 Mac	\$175	N/A
CPI/ ViVa	ViVa 14.4 \$180	ViVa 14.4 \$196	N/A	N/A
Hayes Corp	Optima 144B* \$179	Ultra 144 \$249	N/A	Optima 288+FAX v.FC 28.8k \$259
		Optima 144+FAX* \$179 PC; \$179 Mac		
Intel	SatisFax/400 \$249	14.4 EX \$269	N/A	N/A
	Faxmodem 144i \$99	SatisFAX/400e* \$245		
		Faxmodem 144e \$109		
Microcom	N/A	N/A	N/A	DeskPorte FAST v.FC 28.8k \$249
				TravelPorte FAST v.FC 28.8k \$249
MultiTech	MT1432BC \$400	MT1432BA* \$400	N/A	N/A
	MT1432ES \$400 MCA	MT1432MU* \$300		
		MT1432BL* \$450		
		MT1432PCS \$575		
Practical Peripherals	N/A	PM14400FXSA* \$215	N/A	N/A
		PM14400FXMT* \$155		
Supra Corp	SupraFAXModem* \$109	SupraFAXModem* \$139	\$159	Supra V34 \$179
USRobotics	N/A	N/A	N/A	HST V.Everything V.34, VFC, FAX* \$249
Ven-Tel	PCM144FAX* \$195	EC144FAX* \$215	N/A	N/A
	PCMV.32bis* \$480	ECV.32bis* \$525		
	MCM144FAX* \$380 MCA	RMV.32bis II* \$425		
Zoom Telephonics	VFP V.32Bis* \$99	VFX V.32Bis* \$119 PC; \$130 Mac	VFP V.FC 24k \$99	VFX V.FC 24k \$119 PC; \$130 Mac
			VFP V.FC 28.8k \$139	VFX V.FC 28.8k \$159 PC; \$170 Mac
ZyXEL	U-1496B* 16.8K \$299	U-1496E* 16.8K \$299	N/A	U-1496E* v.32terbo 16.8K \$299
	U-1496B+* 19.2K \$389			

* Modems with an asterisk include 14,400 baud FAX send/receive at no extra charge!

Notes on Table I:

1. All internal modems are assumed to be PC-AT ISA bus unless otherwise noted. Some manufacturers do not offer internals; be careful when ordering.
2. Consult manufacturer for details on availability of Caller ID or voice-mail processing options (any modem above).
3. These prices NEVER include shipping and handling, which is always extra, Typically \$5 - \$15 U.S. dollars.
4. V.34 is International (ITU-T) standard for 28.8K. This is not the same as V.FAST (generic name) or V.FC (Rockwell based 28.8K standard).

TABLE II — VENDOR CONTACT INFORMATION

VENDOR NAME	CALL THEIR BBS AT THIS NUMBER AND...	...DOWNLOAD THIS FILE.	IF YOU HAVE QUESTIONS OR PROBLEMS CALL..	CONTACT VIA EMAIL
AT&T Paradyne	(813) 532-5254	ATTSYSOP.TXT	(800) 554-4996	t.bradshaw@paradyne.com
CPI/Viva	(805) 499-9646; (215) 746-9948	CPIA.TXT	(800) 854-7600	
Hayes Corp.	(404) 446-6336; (800) USHAYES	H96SYSOP.TXT	(404) 840-9200	rlacy@hayes.com
Intel	(503) 645-6275	OFFER.TXT	(503) 228-9707	
Microcom	(800) 822-8224	SYSOP.TXT	(617) 762-5134	
MultiTech	(612) 785-9875; (800) 392-2432	PRICE.TXT	(612) 785-3500	
Pract. Per.	(404) 734-4600	SYSBBS.TXT	(404) 840-9966	GO PPIFORUM (CompuServe)
Supra Corp.	(503) 967-2444	SYSOP.TXT	(503) 967-2400	orders@supra.com
USRobotics	(708) 982-5092	SYSDEAL.TXT	(708) 982-5151 (800) 550-7800	support@usr.com CIS 76711,707
Ven-Tel	(408) 922-0988	SYSDEAL.TXT	(408) 436-7400	
Zoom Teleph.	(617) 423-3733	ZOOMBBS.ZIP	(617) 423-1076	CIS 71333,1527
ZyXEL	(714) 693-0762	ZYXEL.TXT	(714) 693-0804	sales@zyxel.com

Motorola offers standard service and support. The Motorola ISG BBS can be reached at 508.261.1058. The faxback system, while not an 800 number, can be reached at 205.430.8894. For the hotline call 800.365.6394. Oh, and the LifeStyle carries a five year warranty.

Sysop/Provider programs

I've included a couple of basic charts for those who believe a picture (well, chart) is worth a few pages of rambling text.

The minimum performance level is v.32bis (14,400 bps), but will soon be displaced by V.34. All modems also must have v.42bis for error correction and data compression to make this list. The rightmost column of Table I shows all modems faster than 14400 bps that support at least v.32bis standards.

I recommend only V.34 for sysops. End-users can economically afford to now live by the same standards. The V.34 ITU-T standard offers 50 percent more throughput than v.32bis, at only minimal cost increases. It also offers a better chance at a high-speed connect (24,000-28,800) than VFC under minimal line conditions. Beware of upgrade plans to v.FAST/v.34 modems; various manufacturer programs vary greatly.

More than a modem

Some vendors offer more than just modems to the sysops joining their program. For example, US Robotics offers substantial discounts off their CommServer 486 LAN product. Other vendors, such as ZyXel, offer big discounts on modem rackmounts. A rackmount reduces the tangle of multiplying power supplies and becomes economical for sysops planning on larger, multi-line systems.

Buyers' restrictions

If you maintain a system operating 24-hours per day for the last six months, then you're eligible for any of these discounts. Some manufacturers only require that you are currently running a BBS at time of ordering. A few may actually waive the current operating requirement.

Once you receive your modem, you're expected to keep the BBS up and running between six and 12 months (requirements vary). Generally, the modem is yours to do whatever you want with after this period expires. Some manufacturers may ask you to never sell modems purchased on a discount plan. Modem resellers, such as computer stores, are generally excluded from participation in discount plans.

Nearly all of the modem vendors

are accepting VISA and MasterCard for orders. Some also accept a cashier's check or money-order for prepay orders. Personal checks often require additional clearing time which just holds up your order. C.O.D. is becoming less common, and is rumored for phase-out by several of the larger players over the next few months.

One requirement, which goes for nearly all vendors, is that they generally expect at least a one-line advertisement somewhere in your welcoming screens. For example: "Using the finest Model XYZ modem from Acme Modem Co." would be perfectly acceptable in all cases.

Order processing and availability

Delivery times and schedules vary radically, so your mileage may vary. Many manufacturers are placing orders on hold until they release V.34. Hayes typically shipped in 48 hours, and to the far extreme, US Robotics guarantees a two to six week waiting period.

For Canadian, European and other sysops outside the U.S., you may or may not be eligible for discount offers. Please check carefully ahead of time to avoid disappointment. You may want to check with their European subsidiaries before contacting the U.S. office. ■■■■■

ModemMag@ais.net

Q&A

Our discussion this month centers on the implications that follow from the choices a sysop makes about whether the callers' names appear aliased or real on the BBS. I address this in response to the many questions I've received on the topic.

Q: How will it affect my BBS if I allow aliases or if, on the other hand, I require real names?

Tom from Rhode Island

A: There are a number of issues involved. Some callers, particularly women, may be more comfortable using an alias rather than their real name. The handle does provide both anonymity and a degree of safety from harassment. On the other hand, people may not feel that they have to be as personally responsible for the things they say online, which can either encourage free discussion or provide a cover for insults and flame wars.

Some systems permit aliases only in certain areas of the BBS, like an adult conference, or adult-oriented chat. An adult BBS without handles is like a car without wheels — it's not going to go anywhere.

The purpose of the BBS, or market orientation may therefore affect these decisions. For instance, it makes little sense for a product support BBS to use aliasing. Ideally you will keep your market orientation in mind when you select your BBS software. Some software packages are geared primarily to aliasing (sometimes termed userid), others primarily to real name usage.

Q: My BBS has for years been linked with a PC Echo Net that requires real names. Recently, new callers are complaining that the "real names only" policy means that they have to forgo the online email name they've maintained on the Internet since their college days. Any thoughts?

Ann from Oregon

A: This brings up another consideration — whether the board is stand-alone or connected to networks of other BBSs or the Internet or both. Some BBS networks prefer real names, but will tolerate an alias provided it's G-rated and the caller signs their real name (such as with RIME). Others will not permit aliases at all (like in ILink).

The Internet is 99 percent one-word logon names which may resemble handles even when they are abbreviations of real names. If the BBS supports Telnet logins from the Internet, callers may wish to keep their familiar (and known to others) login names, which may then present problems if the caller uses a conference and the handle escapes to an echo network.

Thus, the recent technological breakthroughs that bring Internet access to BBSs for the first time bring a new perspective to this issue. It is logical for Internet surfers to expect to be able to use their Internet name when they drop off the exit ramp to stop at your BBS. At least sometimes. So I feel confident that you can expect a trend toward more acceptance of Internet type names on BBSs in the coming months.

Please keep the questions coming — we'll respond to as many folks each month as space allows.

Tess Heder is co-founder of Channel 1 BBS. Please address your questions, comments and concerns to:

BBS: Comment to sysop, 617.349.1300 V.34
Email: tess.heder@channel1.com
Fax: 617.354.3100, Attention: Ask TESS
Snail Mail: Channel 1, Attn: Ask Tess, 1030 Massachusetts Avenue, Cambridge, MA 02138.

Tess Heder is co-founder of Channel 1® BBS, winner of the Dvorak/Zoom Award of Excellence in Telecommunications and the 1992 Best General Interest BBS.

If you're a sysop and would like to be considered for the list, contact one of the following sites. Posting to the USBBS List at these sites will place you on the A-List.

BOBsBBS — 916.929.7511

Livewire/CD SUB — Download CDSUB.ZIP from The Livewire BBS (*BBS Magazine's* support board) at 609.235.5297 and register the CD SUB Door program for a permanent listing.

FTP — Download US PUB103.ZIP from oak.oakland.edu, create USBBS.DAT and send the completed file to BOBsBBS or update@bobsbbs.uucp.netcom.com.

Call 609.953.9110 (voice) for help.

Derived from the USBBSLIST.

LEGEND

BBS TYPE	BAUD	MODULATION	SIZE	NODES	SUBSCRIPTION	INTERNET FEAT.
B	29	D	50+	3	\$	3

BBS TYPE	BAUD	MODULATION TYPE	SIZE	NODES	SUBSCRIPTION	INTERNET FEATURES
A = Auntie	0 = 300	V = V.32 or V.32bis	Indicated in 100s of megs.	Number of lines	\$ = subscription; blank = FREE	SERVICES CODE
B = PCBoard	1 = 1200	U = USRobotics HST	+ = CD-ROM.			1 2 3 4 5 6 7 8 9 A B C D E F
C = Phoenix/Collie/Collisus	2 = 2400	H = Hayes VSM				Mail X X X X X X X X
D = dBBS	9 = 9600 or faster	F = V.Fast, V.34 (1/25/95)				Usenet XX XX XX XX
F = Spittire		U = USRobotics Dual Standard (V32 and HST)				FTP XXXX XX XX
G = GAP		B = Hayes Ultra (V32 and VSM)				Telnet XXXX XX XX
H = PC-Host						
I = TriBBS						
J = SuperBBS						
L = Telegard						
M = OraComm/Major/Galacticomm						
N = Genesis Deluxe						
O = Opus/Maximus						
P = GT PowerComm						
Q = QuickBBS/RemoteAccess						
R = RBBS						
S = Searchlight						
T = TBBS or TCOMM						
U = UltraBBS						
V = WWIV						
W = Wildcat						
X = BBS-PC, RyBBS, ROS, Fido, Citadel, Osiris, etc. or custom, unverified or unknown type						
Y = T.A.G.						
Z = TPBoard						

Must support 2400 bps or greater
100 MB of disk capacity
24hr/7 day service
Sysop must give REAL NAME

201-662-9274 NJ Guttenberg
The Dark House Dan Lopez
Adult, games, chat & more.
W 29 FV 48+ 4 \$ 3

201-729-2602
Chuck's Attempt Chuck Ammann

201-839-5401 NJ Ringwood
Garden of Eden Frank Molino
General access BBS, games.
W 29 D 14+ 4

201-989-8107 NJ Dover
MIT-Net BBS Dennis Bixler
Well rounded, for all ages.
B 19 DF 168+ 10 3

203-443-3857 CT New London
Beyond BBS Shawn Brogan
Geared towards the family.
B 29 VF 800 1

203-487-6134 CT Ashford
Stonehenge BBS Dave Swift
3D action games & general comp.
X 29 VO 10 2

203-488-2315 CT No. Branford
Interstate BBS Lewis Reid
Message networks, files, games.
X 19 VO 14+ 1

203-646-8990 CT Manchester
Dungeons/Doom! Mike Pennington
Doors, files, message bases.
X 29 VF 19+ 1 2

203-774-6961 CT Brooklyn
NewEngland ONL Michael Pederse
News & information.
Q 09 FV 25+ 2 \$ 1

203-886-1441 CT Norwich
Sea of Noise Robert Szarka
Text files, OS/2, & Internet.
Q 29 VF 13 1 3

205-574-6841 AL Scottsboro
Power Station Allen Godwin
Files, games, planet connect.
X 29 VF 5+ 1 \$

205-751-9890 AL Hartselle
Paragon OnLine Richard Creel
Windows based interface.
X 09 V 14+ 1 3

205-871-9678 AL Birmingham
Lions Den BBS M. Sieniawski
Games and files.
W 19 D 50 1

206-402-3413 WA Bothell
Online Blues Patrick Lynch
Blues music, current & history.
X 29 D 12+ 1 3

206-584-4309
The Wolf's Den Keith Shinkle

207-368-5402
Grouchy Marx Crouchy Marx

208-664-2983
The Third Mill Jim Fromm

208-666-4010 ID Coeur d'Alene
Anita's Place A. Nikiforuk
Women's area; community.
W 19 V 12+ 1

208-734-3544 ID Twin Falls
Faze V Tech Ken Vaughn
Echomail, prgrmmg, med., writing.
W 29 V 1 1

209-277-7979 CA Fresno
LegacyNet Sean Rutledge
A great chat, game BBS.
M 29 FV 10+ 38 F

209-323-6835 CA Clovis
Clovis Connect Rod Jassen
Genealogy, AIDS/HIV, OS/2.
W 29 FD 14+ 3

209-439-5934 CA Fresno
Revolution BBS Brian Watters
Business related, InterNet.
B 29 F 14+ 44 \$ F

210-675-4787 TX San Antonio
NECRONOMION John Clements
Business, games, wicca, adult.
V 09 FV 14+ 2

210-688-3035 TX San Antonio
Modem Junction Chuck Hammock
Netmail, files.
X 29 FV 13+ 1

210-699-1710 TX San Antonio
Tranquility S. Blackburn
Environment/outdoor recreation.
B 09 FV 9+ 1

212-749-3268
Walter's BBS Walter Parrish

212-868-0720 NY Manhattan
bdpa ny Mike Holman sr.
Nat'l black data proc. assoc., NY chap

214-223-8268 TX Desoto
The PAIN CAVE Jeff Goldstein
For fans of erotica, art.
W 29 V 13 2

214-245-9315
USS Inverness Jonathan McGirr

214-288-6826 TX Mesquite
The DarkRoom S.Hubbard
Public access.
I 29 V 11+ 1

214-317-4345 TX Lewisville
TECHLINE BBS Fred Gardner
PC & Macintosh files.
W 19 D 350+ 4

214-351-9859
Collector's Ed Len Hult

214-355-1835
Lonesome Dove Matthew Peacock

214-442-1396 TX Wylie
Bailiwick D Cummings
One of Dallas' free BBS.
W 29 F 18 2

214-641-6292 TX Grand Prairie
Hogard Sftware Chuck Hogard
Software support, shareware.
B 29 FV 30+ 5 \$ 9

215-321-1873 PA Philly
After-Hours Tony Reesby
Games BBS; fun BBS.
W 09 FD 80+ 1

215-634-7613 PA Philadelphia
The Galley BBS W. Jurkiewicz
Games, messages, and friends!
X 29 V 4 1

216-248-1891 OH Cleveland
Mip Online Brian and Dan
Internet messaging, files.
S 29 B 10+ 2 \$ 3

216-324-6410
Comm. Netlink K Stevenson

216-345-5623 OH Wooster
CJB's BBS Chris Butdorf
Doors, files, mail, and more!
F 09 FV 14+ 1

216-639-9508
Scientist's BBS Soo Kurz

216-665-4551 OH Akron
AIE BBS Justin Spies
Games, sports, aviation, model.
B 29 FV 11 2

218-376-4590 MN Bear River
The Darc Tower Roger Soular
Games.
F 09 V 11+ 1

218-525-7520 MN Duluth
Wizard's Tower Sheldon Aubut
Messages, sports, intelligent debate.
W 09 U 5 1

218-729-7026 MN Duluth
TBNT Roger Martell
Messages, crafts, games.
X 19 VF 5 2

218-878-0642 MN Cloquet
Echelon MLS Ed Miller
Entertainment, game revue.
M 09 D 10+ 10 \$ 3

219-744-4908
The Play Board Jay Tipton

301-293-0320 MD Hagerstown
The Berean BBS Bob Coss
Christian files and ministry.
O 19 V 40+ 2

301-498-8729 MD Laurel
Razors Edge Bob Kelly
Music, comics, games, adult.
W 29 D 14+ 1

301-620-1401 MD Frederick
The Berean BBS Bob Coss
Christian files and ministry.
O 19 V 35+ 2

301-698-5194 MD Frederick
Vampyre Bar! Darryl Pierce
OS/2 support, programming.
B 29 D 22+ 1 3

301-738-0000 MD Rockville
NETEAST Howard Hartman
General access.
B 09 V 111 20 \$ 3

302-234-6760 DE Hockessin
Digital World Brian Funk
Legal services, files, gaming.
M 09 VF 70+ 10 \$

303-244-8420
Mirror Image Mark Feil

303-456-1642 CO Westminster
SportsBoard Gary Hawley
Sports forecasts & data.
Q 19 VO 2 1

303-964-5372 CO denver
RJ BBS Kate Secrest
University board.
J 19 V 10 5 1

303-964-8559 CO Denver
Silver Moon Nythcar
Pagan oriented messages.
J 29 V 10 1 3

The A-List

304-697-5769 WV Huntington
TeleTech Travis King
 Home of Associate Networks.
 W 09 VO 14+ 1 3

304-723-2133 WV Weirton
MOB Mike Perkins
 Games, 6500+ message bases.
 B 19 F 60+ 5 3

304-725-1957 WV CharlesTwn
Fly By Nite Gary Mace
 Aviation. Home of ATCnet.
 X 09 FV 14+ 2 1

305-796-9595 FL Coral Spring
The Archive Matthew Singer
 All Internet PC shareware.
 X 99 FV 90 4 \$

305-964-3463 FL Miramar
John's Playpen John Slater
 Downloading BBS, adults.
 W 29 FU 50+ 2 \$ 7

310-425-5710 CA Lakewood
aussie M.Szabados
 Chat, files, games.
 M 09 V 100+ 18 \$ 3

310-493-3535 CA Seal Beach
Playbord Jim Jensen
 Online games.
 R 29 F 6 1

310-559-5334 CA Los Angeles
WLA BBS Gary Inman
 Planet Earth Network.
 B 99 FV 90+ 4 \$ 1

312-284-7133
4th Dimension Jeff Jones

312-665-7319 IL Chicago
HOME AGAIN! William Johnson
 Free Internet email and Usenet.
 B 09 FV 36+ 2 3

314-281-8598
Megabiter II George Belcher

314-351-7150
The STL CATII David Russo

314-664-6877 MO St Louis
CITADEL BBS Lee Young
 Alternative lifestyle.
 M 09 D 14+ 4 \$

314-770-2342 MO St. Louis
The Shoe-Me BB Bob Patel
 Adult images, chatting.
 W 29 BV 14+ 4

315-458-3482
Dreamscape Scott Brennan

315-475-3250 NY Syracuse
Bytronix! Mike Bettua
 Variety/general interest.
 X 09 VO 5 2

316-267-5125 KS Wichita
Elysian Fields Chris Schroeder
 Internet service.
 M 19 VF 12+ 65 \$ F

316-788-7520
Griswold's Priv Jim Kelland

317-359-5199 IN Indianapolis
TCON C. Hanrahan
 Classified ads, Internet.
 X 19 FV 500 120 \$ F

317-756-7956 IN Indianapolis
The Stargazer Ken Johnson
 Programming C/C++, Qbasic.
 B 19 F 10+ 1

318-323-7882 LA Monroe
Bayou Internet Jerry Scroggin
 Broadcast radio related.
 M 19 FO 14+ 6 \$ F

334-409-0956 AL Montgomery
Homeowners HVN Alison Gwin
 Real estate information.
 I 29 F 1 1

334-675-8406 AL Saraland
The Anchor Inn Jim Wilson
 Registered Tradewars & LORD.
 B 29 FV 16 1 1

334-677-7316 AL Dothan
sandstorms bbs Kim Gransden
 Adult, games, DOS, Windows.
 W 29 VO 5+ 1

334-702-4713 AL Dothan
Shadow Net BBS Phil Willis
 Games, adult, DOS, Windows,
 more.
 w 29 b 10+ 1

360-299-0491 WA Anacortes
Far Point S. Chris Spry
 Mission #2 support, files, fun.
 W 09 VB 3+ 1

401-621-4600 RI Providence
E*Nest BBS Stanley Ulbrych
 General purpose board 3/84.
 B 19 FV 320+ 31 F

402-474-3747
Da Place BBS Mark Fruehling

403-459-3270 AB St. Albert
Second Reality Earl Potter
 Technical support.
 Q 09 VO 65+ 2 \$ 3

404-476-7880
The Late Nite Bobby Nowell

404-478-9700
The Night Shift Bill Hardy

404-516-0048 GA Woodstock
AtlantaWindows Warren Royal
 Windows and OS/2 shareware.
 B 29 FD 70+ 13 \$ F

404-773-7966
Warp Factor Mark Stewart

404-819-6860 GA Mableton
Mountain BBS Shawn Cannon
 Christian BBS, Star Trek.
 W 29 V 8+ 1

404-825-0841 GA Norcross
BrightStar Bob Naumann
 Business-related.
 B 19 B 0 0

404-936-0550
Music Connction David Coleman

404-994-0612 GA Atlanta
ABBS Ron Miller
 Many SIGs inc law enforcement.
 T 09 VO 10+ 6

405-354-6937 OK Yukon
Chamber32Doors Dave Mather
 Music & games.
 X 29 V 6+ 1 3

405-372-5658 OK Stillwater
CooKoo's Nest Eric Jansen
 world wide networks, and files.
 X 09 VF 5 2

405-478-8250 OK Edmond
Medicus BBS John Gilliam
 Medical computing.
 B 19 FD 60+ 3 3

405-728-7124
Hotel California Lloyd Lawson

405-949-9769 OK Okla City
Eternal Pwr II Kevin Kuhlman
 games, files, americom net.
 V 29 VF 1+ 1

407-574-0670 FL Deltona
SkyNet Jeff Ballard
 Largest files section in area.
 X 29 F 52+ 5 \$

407-575-3853 FL Jupiter
JUPITER Ted Parsons
 Files & novice help.
 Q 19 FV 90+ 6 3

407-684-1200 FL West Palm
TheEaglesNest Mark Netzel
 Online games, chatting.
 S 29 VF 10 3

407-687-8712 FL W PlmBeach
Bloomunit Linda Bloom
 For homeschool families.
 X 19 V 13 1

407-722-5020 FL Melbourne
Online Lusions Alex Rudloff
 Chat & general all around BBS.
 W 19 VO 10+ 6 \$

407-834-9468 FL Altomonte
Tech net Steve Miller
 Model search94, usenet, fido, wor.
 B 99 B 11+ 2 \$ 2

407-859-7428
The Death Star Nicholas Seabury

407-932-0584 FL kissimmee
NIVETS BBS steven webb
 Games, business, comm.
 W 09 FO 14+ 1

408-364-2789
PereLine BBS Tom Serface

408-378-6588 CA San Jose
Matrix Online Darryl Perry
 San Jose Bay area community.
 T 09 V 14+ 2

408-384-8634 CA Marina
Steel Beach Ronald Pugh
 Programming, Linux, Internet.
 Q 29 VF 11+ 1

408-422-5684 CA Salinas
GDCS TECHLINE Gary Doda
 Free tech support.
 B 29 D 52+ 2

409-769-4249
Wayne's World Wayne Belvin

410-551-2586 MD Severn
The Edge BBS Tom Collins
 General interest.
 X 09 FV 42+ 2 \$ 3

410-687-4876 MD Rosedale
Rosedale Conn Mike McCullough
 General IBM interested related.
 B 29 V 8+ 1

410-744-1102 MD Catonsville
File Exchange Steve Cain
 Files, mail and online gaming.
 B 19 DF 42 2 1

410-893-6905 MD Forest Hill
TimeDistortion Tom Vaccarino
 40+ doors / 20K+ adult files.
 W 29 VF 76+ 5

412-226-9549 PA Natrona Hts
JABS Talk BBS Todd Simmers
 Helping users w/computer probs.
 W 09 FV 20+ 2 3

412-567-6782
entertain me Shawn Cupec

412-767-7068 PA Pittsburgh
Doberman Gang Tom Bing
 Over 100,000 Files, shareware.
 W 09 FU 180+ 5

413-527-7360 MA Easthampton
Shangri-La BBS Moe Lanza
 Perfection and fun in a hobby.
 O 09 FV 5 1 1

413-527-8977
Uncle Hank's Hank Hurteau

413-568-7016 MA Westfield
The Upper Room Thomas Long
 Christian forums, files, etc.
 W 29 D 8+ 1 3

414-672-6630 WI Milwaukee
plainbrnwrapp Freddie Reitz
 Files.
 W 29 B 3 1

414-862-6221 WI Trevor
Chip -N- Disk Rich Cmiel
 Technical support.
 W 09 VO 6+ 1 \$

415-564-9440 CA SanFrancisco
IBBS West Margery Chia
 Business & personal shareware.
 X 09 FV 20+ 5 \$ 1

415-927-2435 CA Mill Valley
CIA BBS Steve Wingate
 UFOs, GIFs, conspiracy.
 W 2 2 1

416-770-6917
Platinum Express Glenn Jarvis

419-599-4878 OH Napoleon
Bob's Micro Bob Weitzel
 Police / general.
 X 19 V 10+ 1

501-234-5596 AR Magnolia
NOT (the BBS) Trever Brackett
 Multi-channel music files.
 W 19 D 14+ 1

501-278-5032 AR Searcy
The Playroom B Mike Liddekee
 Home of TSC Software.
 B 19 F 4+ 1 3

502-245-8117 KY Louisville
Prism Janis Kracht
 IFDC FileGate HUB, PDN HQ.
 O 09 FD 14 2

502-443-6014
The Data Center Jeff Burton

502-499-7893 KY Louisville
Cyber Street Brad Newton
 Games, active chat and forums.
 M 29 D 10+ 8 \$

503-232-9202 OR Portland
Banished CPU Dan Gannon
 Freedom of Speech.
 T 09 FV 50 29 \$ F

503-266-3177 OR Canby
ACECOM Jerry Withers
 National employment database.
 W 29 V 4 1 3

503-393-5580
Chemeketa Bob Hunter

503-524-9436 OR Beaverton
Lance's BBS Lance Lucas
 Doors, files, FidoNet, more.
 W 19 V 10+ 1

503-636-4947 OR Portland
Disk Jockey Mike Gottlieb
 Live chat, multiplayer games.
 M 09 FV 20+ 16 3

503-697-4099 OR Portland
69-Online Mike Gottlieb
 Portland's premier adult svc.
 M 09 FV 20+ 3 \$ 3

503-699-7915 OR West Linn
The Windows BB Adam Stites
 Latest for Microsoft Windows.
 W 09 VO 11+ 2 1

503-883-1574 OR Klamath Fall
Stormy Night Patti McMann
 Family oriented, games.
 W 19 VF 5+ 1

504-356-0790
Southern Online Russell Jackson

504-436-0640 LA New Orleans
HBP! Dave Davis
 Food and beverage, genealogy.
 W 19 FV 11 1

504-542-9600
Computer Soul Sidney Egnew

504-633-9515 LA Thibodaux
Lagniappe! David Cagle
 Internet email+600 NewsGroups.
 X 29 FV 120+ 4 7

504-764-0449 LA Norco
Eagle's Nest John Perilloux
 Politics.
 B 29 FD 30 1 \$

505-672-1665 NM White Rock
Political BBS Brian Tafoya
 Games, files, political debate.
 F 29 V 12+ 2 3

505-823-2831 NM Albuquerque
4M Keith
 Entertainment/educational.
 M 09 V 14+ 1 \$ 7

505-898-7120 NM Albuquerque
Dead end Joel Yanger
 Program development, chat.
 B 29 D 5 1

506-287-0311 MA Concord
Videodrome M Lammons
 Total movie industry info.
 T 09 VU 9 2

508-462-8387 MA Salisbury
U.S.S Titanic Chris pelletier
 Talking.
 X 99 O 14+ 1

508-528-2295
Computer Conf. Edward Zdrok

508-759-1888 MA Buzzards Bay
Maximm BWidth Brian Beaulieu
 Games and messages.
 X 29 FV 14+ 1

508-853-0340
Schunix-Pub UNIX Robert Schultz

508-887-9592 MA Boxford
NuclearWarZone Ken Auger
 Music, games, doors, files, etc.
 F 29 V 9+ 1

509-244-3666 WA FAFB
NWOnline Aran Spence
 APCI multiplayer game server.
 Q 19 FV 20 5 3

509-482-2016 WA Spokane
MicroData Larry Taylor
 Shareware.
 B 19 VF 140+ 4 \$ 3

509-545-9879 WA Pasco
Sigma lotia II Del Bice
 Full service information.
 R 19 DF 65+ 6 F

509-891-6148
The Moonflower Peter Link

509-925-3893 WA Ellensburg
UniNova Stuart Whitmore
 Tech support for UniNova prods.
 W 19 VO 11+ 1 3

continues...

510-235-3273 CA El Cerrito
ECPD PubSafety Bill Guggemos
 Law enforcement, crime prevent.
 W 29 V 2 1

510-568-7807 CA Oakland
Gold Diggers Harry Goldberg
 Files, Doors and messages.
 S 29 F 14 1 S

510-689-4022 CA Concord
Dr Jacks Thing Jack Morcom
 Something for everyone.
 W 29 VF 14 8 1

510-689-9528 CA Concord
Terminal One Pete Nelson
 Aviation GIFs.
 W 19 VF 0 0 3

510-777-1314 CA Antioch
CABbs.com Mark Liddington
 City of Antioch public info.
 X 19 FV 20+ 3 7

512-328-2885 TX Austin
Shareware Conct Carlos Lopes
 Off. dist. site: Apogee & Epic.
 Q 09 VF 11 1 3

512-836-4262
The Night Owl II Danny Dyess

512-945-9304
Ranch House Larry Easley

513-299-8331 OH Dayton
Global Eric Lowe
 Business, investment.
 M 29 FV 110+ 4

513-451-8990 OH Cincinnati
MagNet Mike Nelson
 Only the newest files.
 F 19 FV 38+ 2 S

515-245-9663 IA Des Moines
WoodNet Gordon Gaippe
 Woodworking plans, forums, DBs.
 M 09 VO 10 4 S

515-246-1745 IA Des Moines
Ordinary World Jeff Schoen
 Games, graphics.
 X 19 F 11+ 2

515-256-9406 IA Des Moines
CRC Online Jeff Schoen
 All purpose.
 I 19 FV 25+ 2 S

515-282-3656 IA Des Moines
TALK BOARD Tom Williams
 Family fun & language areas.
 I 09 VB 1 1

515-628-3101
The Main Street Steve Jansen

515-842-6482 IA Knoxville
CyberStation 7 J. Provenzano
 General and privacy software.
 X 99 FD 14+ 1

516-422-7400 NY West Babylon
netConnectBBS Dick McGuire
 Personal/business related.
 X 29 VF 40+ 2 F

516-437-1659
DEFCON BBS M Christiansen

516-496-4956 NY Syosset
DaCool BBS Jason Weill
 CD-ROM online, Usurper.
 Q 19 V 10+ 1

516-594-0054 NY RVC
Paradigm Legal Enzo Alduino
 Legal, shareware, free Internet.
 B 29 D 40 2 7

516-736-6662
Your Software John Woodstock

516-878-4906 NY Moriches
HAM-IT-UP BBS Joseph Isbell
 Amateur radio.
 W 19 V 13+ 2 3

The A-List

516-981-4689 NY Holbrook
Nicks World Nick Schiano
 Messages, files, games.
 B 29 FV 2+ 2 3

517-695-9952
Wolverine BBS Rick Rosinski

520-290-2807 AZ Tucson
Demodulator J Bennett
 Mail, files.
 I 29 UF 300 1

520-722-4870 AZ Tucson
Graveyard Shif A & C Peters
 UFO files, national jobs.
 W 19 V 10+ 1

601-371-0423
After Hours BBS Randy Riley

602-258-7113
The Wish Book Lorne Shantz

603-626-1741 NH Manchester
The Bird Call S. Pidgeon
 Renegade files, games, Windows.
 R 19 VF 14+ 2 3

605-232-3170 SD McCook Lake
Sonny's Garage Dan Liston
 65 shareware & adult CDs live.
 W 29 V 446+ 1 S 3

605-331-5831 SD Sioux Falls
YEBB Ray Christensen
 Education.
 X 99 D 31 8 S F

606-275-4321 KY Lexington
Psi Phi Pi Ken Newberg
 Utilities.
 X 09 FV 1 1

606-344-0284 KY Ft. Mitchell
Interstate BBS Gil Vogt
 Files, Adult confrence.
 W 09 F 60+ 1

606-441-2130
The Ghost House Michael Haley

606-497-0192 KY Mt. Sterling
Raceland BBS Gary McClure
 For all people. Everybody.
 B 09 VF 5+ 2 1

608-897-8638 WI Brodhead
CROSSroad BBS Chris Schilling
 Family-Christian, EXCALIBUR.
 X 29 VF 16+ 2 3

609-222-0206 NJ Mt Laurel
TheSpeakEasy Yoshi Melrose
 Japan/entertainment/Star Trek.
 X 19 V 7 1 1

609-235-5297 NJ Mt. Laurel
The Livewire BBS Richard Paquette
 Support Board for BBS Magazine.

609-467-5540 NJ Swedesboro
Alexs World Alex Mastrando
 Adult, sysops, 100's of conf/files.
 G 19 D 5 2 F

609-482-1336 NJ Maple Shade
Next Generation John Carcione
 Trek Trivia Online; After Dark.

609-484-8874 NJ Pleasantville
R.C. BBS of NJ Kenneth Leary
 Catholic/Christian orientated.
 W 19 V 2 1 3

609-541-2417 NJ Camden
Top Secret BBS G. Stafford
 PC/Windows HW/SW support.
 M 09 BV 14+ 4 F

609-587-2672 NJ Mercerville
The TAO BBS Bob Watson
 Practical computer services.
 B 09 DF 20+ 3 7

609-751-9021 NJ Cherry Hill
CyberExplorer Matt Fusfield
 Philadelphia info/business.
 M 09 V 12 2 S 3

609-764-0812
Radio Wave BBS Tyler Myers

609-768-6585
BB's BBS Bob Browne

609-778-4442
Camp Gaming Gregory Moore

609-845-9171 NJ Deptford
Bill's Bill Williams
 Relay-Net, Sports-Net.
 G 99 D 60+ 3

609-890-6347 NJ Ham. Square
CyberCity USA Bob Marsley
 Internet email, 130+ Newsgrps.
 M 09 D 45+ 2 3

609-927-2059 NJ Linwood
Linwood TBBS Richard Soucy
 Free access with on-line games.
 T 19 D 25+ 1

609-935-5572 NJ Salem
PLUM CRAZY Arthur Plummer
 Doors, File, FidoNet, RIME.
 B 19 F 40 2

609-987-9539 NJ Princeton
SSDecontrol Alfredo Dematte
 General orientation.
 B 29 FV 10+ 1

610-497-3912 PA Boothwyn
Night Wind Bob Martin
 Games, 2,000 message areas.
 B 29 D 54+ 5 3

Oriental Express BBS

- ❁ GIFs of Chinese and Japanese Models ❁
- ❁ Playful Chat Hostesses ❁
- ❁ Stunning RIP Graphics ❁
- ❁ Interactive Adult Games ❁
- ❁ No Membership Fees ❁

011 852 1729 8990

Over 18s only. International Telephone charges apply.

SUBURBAN

PCBoard Ver. 15.0 **708-636-6694**

SOFTWARE

Home of

King of the Board • Strike 93 • Word Nerd

BBS

Major BBS v6.25 - \$129.95

Special Price for Limited Time Only! Call for the full line of Galacticom Products

Valuable Applications for The Major BBS!

Global Monitor - Split screen monitor users by key, class or userid & still use bbs.	\$79
Chat-Now - Split screen one on one chat & still use the bbs! Sysop forced chat too!	\$125
Lost Caverns- Open Ended Mud - your users build the game as they play it!	\$399
Pick Up Artist - Lets see if you're as hot as you think you are! Careful not to get dumped.	\$99
Bartender - Make drinks for computer controlled customers & manage your own bar	\$99
File Viewer - Let users scroll up down and keyword search any length textfile on your bbs.	\$79
Accounting Automation - Accept 900#, Credit Cards and other forms of payment.	\$39
Anonymous Teleconference - Nobody knows who said what in this teleconference.	\$49
Colorific - Let your users color coordinate messages, registries, pages, whispers and more.	\$25
Credit Exchange - Allow users to swap days for credits or credits for days, totally flexible.	\$39
Dual Password Security - Give users a second password for certain areas of your bbs.	\$39
Executive Informer - Send News, Bulk Email by key, class, sex, age & more.	\$49
Global Teleconference - Talk in 36 channels at the same time from anywhere.	\$49
Graffiti Wall - Our colorful Graffiti Wall is globally accessible for extra usage.	\$15
Modem-To-Modem - Play modem to modem games or transfer files directly to users	\$29
Not Keys - Negate the effects of keys in personal or class keyrings - give to users or classes	\$49
Major Pager - Let users make their beeper go off when receiving email, pages and more!	\$79
Ultra Globals - The most useful package of globals available, many unique features.	\$79
World Wide War - formerly World Conquest, strategy game of world domination.	\$139
Autopost - Leave a message for the next user, can hold configurable # of messages.	\$15
Cybertech - Futuristic role playing text adventure, over 400 rooms, player combat	\$79
Forbidden Lands I - The City of Falchon, over 300 rooms to explore, D&D Style Game	\$79
Forbidden Lands II - The Vale of Grimyre, over 500 rooms and over 120 monster types	\$79
Forbidden Lands III - The Islands of Dawn, over 600 rooms and configurable quests	\$79
EZ-Mailer - Send all new signups a flyer in the mail automatically!	\$79
Choke - Graphical word game: save the sysop from being choked! Expandable dictionary	\$99
Star Market - Build trading companies in space and then purchase stock to make profit.	\$129
Online Menu Tree Editor - Edit menuing system without taking system offline	\$89
Who Cares? - Control what gets posted to your audit trail.	\$29
User Information Editor - Replaces account display/edit. Sysop edit user info	\$64
Major Query - Keyword search your audit trail online, list users with a certain key & more	\$39

Cheersoft
 457 Highway 79
 Morganville, NJ 07751

800-466-1318 x7300
 Orders Only

Voice: 908-591-1234
 BBS: 908-591-1171
 Fax: 908-591-8652

610-838-2908 PA Hellertown
Hard-Drive Cafe Vince Amato
 Grab a "byte".
 V 99 F 9+ 2 7

612-385-1144 MN RedWing
PC-Wing BBS Chris Heath
 Computer user group.
 W 29 H 1+ 1 \$

612-442-5635 MN Chaska
The Black Hole John Perrill
 Your one-stop BBS.
 W 29 FV 120+ 11 3

612-488-5112
P.C. MegaMall M Wielenberg

612-923-5020 MN Goodhue
Heath Computer Chris Heath
 All the things anyone wants.
 I 99 O 1+ 1

614-344-6512 OH Newark
PC Exchange BB R.Schweitzer
 Hobby type, SW/PD doors.
 W 09 F 14+ 1

614-387-2762
The Vault BBS Keith Ketcham

614-423-0567 OH Belpre
Mountain Lair Joe Sims
 General files, doors, email, etc.
 B 19 FD 22+ 1 1

614-855-8504 OH Gahanna
Gingers PortLtd Phill Terry
 Telecommunications.
 W 29 D 35+ 2 3

615-320-1820 TN Nashville
S&H TSX-BBS Steve Gregson
 Sample of the TSX-BBS software.
 X 09 F 1 1 F

615-399-0707
The Lebanon Link B Richardson

615-478-2890
PC Junction BBS Doug Carpenter

615-637-3641 TN Knoxville
The 2nd Mile Rusty Titsworth
 Family oriented fun.
 Q 09 VO 10+ 1 1

615-870-0794 TN Chattanooga
The Registry Bill Kern
 National registry comp profs.
 W 29 FV 35+ 3

615-890-8715 TN Murfreesboro
Heart Of Tenn Larry Reeves
 Connectivity around the world.
 B 09 FH 190+ 6 \$ F

615-966-3574
Data World BBS Sean Dudley

615-977-9385
WNMFS BBS Michael Walker

616-445-4342 MI Cassopolis
E.L.F. BBS Tim Toepp
 Entrepreneur & small business.
 M 29 FV 50+ 4 \$ F

616-629-4395 MI Richland
Cafe Olivia BB A.Walters
 Chat, JetNet, local interest.
 X 29 VO 1 3 \$

617-279-3561 MA Stoneham
Atomic Dog BBS Patrick Breen
 Games, shareware, dog Software.
 M 29 FV 52+ 4 3

617-354-8873
Channel 1 BBS Brian Miller

617-383-2789 MA Cohasset
SSS P.Crimmins
 Adult only BBS.
 M 99 VB 11 17

617-442-6071 MA Boston
Nautica BBS Maria Forshaw
 ANSI, adult, music, anime.
 L 19 V 14 1

619-256-7012 CA Barstow
Devil Triangle Jim Lankford
 Vga Planets, BBS support, games.
 W 29 FV 14+ 1

619-430-7734 CA Oceanside
Desert Nights Rodney Dunn
 Programming and genealogy.
 B 19 V 9+ 1

619-449-4911 CA Santee
#1 BBS Grabbag Bill George
 Files, games Fidonet/AdaNet.
 X 19 V 5+ 1 7

The A-List

619-579-7814 CA San Diego
MortgageWire Ed Schoonover
 Real estate, business related.
 W 29 V 2 1

701-222-0429 ND Bismarck
GobblerNet Bob Newell
 Classic & text-based games.
 X 09 V 10+ 1

701-224-0403 ND Bismarck
Land of the Dr Andrew Fors
 Anime & general files.
 I 09 V 5 1

701-224-1431 ND Bismarck
Node Dakota Greg Kautzman
 Being a good BBS.
 B 09 D 3+ 1

701-225-1951 ND Dickinson
The Mirage Loren Steyer
 Games, files, email, messages.
 X 19 D 14+ 2 1

701-258-0872 ND Bismarck
D-Generation Mark Vernon
 E-Mail network communications.
 W 09 F 5+ 1

701-258-1647 ND Bismarck
ASD Jeremy Schmidt
 FidoNet, CD-ROM.
 W 09 FV 5+ 1

701-280-2343
The Spectrum Dale Hill

701-663-8433 ND Mandan
DigitalUndergr Curt Haider
 WP, Pagemaker, & WildCat files.
 W 09 V 1 1

701-667-2806 ND Mandan
Bit Board Joel Hagen
 Just an ordinary BBS.
 W 09 O 1 1

701-772-5399
City Lites John Lundell

701-843-7635 ND New Salem
Big Cow on Hill Ryan Kramer
 Lots of .MOD music files.
 X 09 V 3 1

703-331-2145 VA Manassas
Cimarron Bay Rich Davies
 Sysop support & files.
 Q 29 VF 8 1

continues...

GARLIQUE
Image Center

Excellence On-Line!

By Modem:
408-847-0665

703-427-0226
Mountain Air BBS Edward Wood

703-435-8644
The Last Resort Derek Figg

703-532-7143
Arlington Softwr Jay Falvey

703-590-3107 VA Dale City
The Hedgepodge Rick Palmer
MSG database, games.
M 09 D 5 2 \$

703-620-8900
World Data Net Tony McClenny

703-638-7580
Xsword's Haven R Hedgecock

703-667-6963 VA Winchester
Yellow Rose Haynes/Whitmer
Community information system.
W 29 V 2+ 1

703-731-0601
Dockside BBS Danny Cook

703-878-4931 VA Woodbridge
GEEZERS B. Schoonover
Mature folks aged 40 and over.
W 29 VF 5+ 1

704-279-6157 NC Salisbury
Star-Edge Rick Foster
Text files, RPG files & games.
B 29 F 6+ 1

704-522-1018 NC Charlotte
Moobasi Optics Blaine Schmidt
Genealogy & programming.
W 09 D 14 2

704-657-4154 NC Cliffside
Cliffside BBS Roger Hamrick
General.
B 09 F 14+ 2

704-657-6898 NC Cliffside
Gentle Breeze Larry Beheler
Door games.
X 19 FV 14+ 2 2

704-757-9949
Enchnt Forest Brian Miller

704-983-2877 NC Albemarle
Small Wonder Mark Brooks
Message base, door games.
X 19 HB 10 1 \$

707-542-3193 CA Santa Rosa
Party Line Jami Chism
Home brewing beer, chatlink.
M 19 V 12 12 3

707-792-2586 CA Petaluma
The Party Line Jami Chism
Home brewing beer, chatlink.
M 19 V 48+ 12 3

708-260-8818
Adline U.S.A.! Charles Parker

708-367-7851
System Software Wayne Lawton

708-462-2572 IL Wheaton
Info Expresswy Nick Poulos
General and technical info.
X 29 V 63+ 6

708-501-4851 IL Northfield
F.A.I.S. Ashley Poole
Tons of files & message bases.
M 29 VF 80+ 4 \$

708-546-0301
Castle KingSide Don Martin

708-634-9368
Great Northern Michael Wilson

708-635-7427 IL Des Plaines
The Dungeon John McCurrie
General information and programs.
W 29 FV 13+ 1

The A-List

708-636-6694
Suburban Softwr Chuck Valecek

708-776-2395 IL Palatine
Warp Speed BBS Alex Gen
Games, music, demos, Internet.
F 29 VF 10 2 7

708-832-7754
Addisn Dos Haus Leroy Hein Jr

708-991-2452
BBS Data Sys Greg Kaiser

713-873-5702
Bowlrz Acr Amer Dennis Asfour

714-262-1200 CA Irvine
aussie M.Szabados
Chat, files, games.
M 09 V 100+ 18 \$ 3

714-537-4300 CA Garden Grove
aussie M.Szabados
Chat, files, games.
M 09 V 100+ 18 \$ 3

714-572-8800 CA Placentia
aussie Michael
Chat, files, games.
M 09 V 100+ 18 \$ 3

714-636-2667 CA Garden Grove
Kandy Shack Mary Bernstein
Conference/message oriented.
B 29 VF 40+ 7 3

714-646-1199 CA NewportBch
(Noah's Ark) Doug Nicholson
Endtimes info and CalvaryNet.
B 19 D 13 1

714-670-6500 CA Buena Park
aussie M. Szabados
Chat, files, games.
M 09 V 100+ 18 \$ 3

714-724-1041 CA Irvine
Crossroads David Squier
Huge & diverse file section.
B 29 FD 22+ 2 3

714-837-9677
The Solar System Peter Guethlein

714-856-2171 CA Irvine
The Way BBS Chris Allen
Christian files and programs.
B 19 HD 14 1

714-996-7777
The Liberty BBS Steven Grande

715-363-3895 WI Rhinelander
Old Frog's BBS Ryugen Fisher
NASC site, games, tech support.
B 29 D 14+ 5

715-398-7141 WI Superior
Info Central Bob Slowinski
Entire Fidonet & Filebone.
Q 09 VF 12+ 2 \$ 1

715-726-0501 WI Chip. Falls
Storm BBS Clay Busker
A lot of mods.
X 19 V 9+ 1

716-288-1350 NY Rochester
The Rising Sun Samuel Bianchi
Music, graphics, games, Star Trek.
F 29 V 14+ 2

716-475-0658 NY Rochester
DigitalHorizon Ron Bangel
Best games and latest files.
B 29 F 11+ 3 1

717-290-8139 PA Lancaster
Soft connect Travis Siegel
Disabled users/programmers/gamers.
W 09 V 22+ 1

717-323-0033 PA Williamsport
Mr. Machinist Allan Bremer
Engineering/machining/math.
W 29 V 7 1

717-367-4973 PA Elizabethtwn
Turbo Systems Jeffrey Kaylor Jr.
Auto glass conferences.
X 99 FV 16+ 1

717-383-9868 PA Peckville
HAM radio. John Mulderig
X 29 VF 14+ 1

717-427-3338 PA Weatherly
InTheFeetOfNight Jim Gillespie
For foot lovers; scans, chat, Inrtnet.
X 09 VF 20+ 10 \$ 9

717-729-8102 PA Beach Lake
Landscape Conx Jeffrey Chorba
Landscape design / horticulture.
R 09 D 13 1

717-730-8504 PA Lemoyne
Stimp's Sandb Mark Friend
Free, Fido, AP member board.
I 19 FV 10+ 3

717-840-1444
Cyberia Sara/Adam Viener

717-992-1071 PA Saylorsburg
Fathers Rights Bob Hassler
Civil & fathers rights.
B 19 D 14+ 2 7

BBS

THE
BULLETIN
BOARD
SERVICES
MAGAZINE

SUBSCRIBE TODAY

Call 1-800-822-0437 and charge your subscription to your Visa or MasterCard, or use the card in this magazine and mail with check or money order to Caller's Digest, 701 Stokes Rd, Medford, NJ 08055.

THE NEXT GENERATION BBS

PCBoard. Home of Trek Trivia Online. Lots of
Files, Message Networks, FidoNet 1:266/19
After Dark Adult Network.
Visa/MasterCard accepted online. 609.482.1336

Surf The 'Net On A Better Board.™

Full Internet access & 1/2 million ad listings in dozens of ad papers. Download the latest software, no dubs or viruses. Play 70 hottest interactive games, chat worldwide on 100 lines. No long distance charges from any of our 600 local phone #'s.

Dial the number below with your computer for a
FREE FULLY INTERACTIVE DEMO.
We're not just part of the communication highway,
we're paving it as we go.

Power Up The Classified World Network™

TRADERS'
CONNECTION

1-800-753-4223
(Info via voice)

1-800-FUN-TCON
(Info via modem)

1-317-359-5199
(modem info & local access #)

telnet:trader.com

718-251-1891 NY Brooklyn
The C Group Mark Cohen
 Shareware, UFO's, paranormal.
 X 29 FV 40+ 1 7

718-266-5726 NY Brooklyn
Not Only Files Mitchell Cohen
 OS/2 files, Usenet, IBMnet.
 W 29 F 100+ 2 3

718-281-0645 NY Bayside
Software Kitchie Fernando Ortiz
 Business, programming, Fido.
 B 29 D 01 1

718-366-6165
Rama One BBS Tommy Brunning

718-375-5561 NY Brooklyn
System X Arthur Gorecki
 Games, messages, files.
 B 29 DF 74+ 1 3

718-648-5199 NY Brooklyn
Zen Monastery P. Starzynski
 Zen Buddhism, Taoism, The Way.
 B 29 DF 5 1

718-816-1808 NY StatenIs
Computer Connx Steve Laino
 Multiplayer DOOM, adult.
 X 29 FV 14+ 8 3

718-848-8342 NY Ozone Park
Squid Shack Ron Kulick
 General.
 B 19 D 5 1

719-540-9728 CO Colo Springs
Co. Connection Scott Carter
 Internet, files, Highway 1.
 W 09 V 39+ 1 7

800-735-5282 DC Washington
Vendor's BBS Jeremy B. Cohen
 Dept. Veterans affairs.
 T 19 D 14 7

The A-List

803-552-4389 SC N.Charleston
Earth Art Bob Chapman
 Environmental.
 B 09 DF 128+ 4 3

803-745-0073 SC Charleston
Dragon's Lair Hugh Pearson
 Role playing talk and games.
 R 29 V 10+ 1 1

803-763-1462 SC Charleston
Dave's World Dave MacDougall
 AA/NA 12-step recovery.
 Q 29 VF 2 1 1

803-766-0176 SC Charleston
THE INN Steve Lanning
 Home of S&G software.
 Q 29 F 11+ 1

803-871-8761 SC Ladson
Carolina Chat Robert McElwee
 Chat, DOOM, multi-user games.
 M 19 VO 5 16 \$

803-873-5797 SC Ladson
Dazed&Confused Bunny McElwee
 General interest, genealogy.
 B 19 FV 170+ 8 \$ 7

803-926-9810 SC Columbia
Capital Connec Daniel Nance
 Alternative lifestyles.
 W 29 DB 13+ 2

804-222-2242 VA Richmond
ChatCity BBS Brian Mueller
 Entertainment: chat, games.
 M 09 DF 13 20

804-237-3823 VA Lynchburg
Brownings World Ralph Browning
 Doom files, NY Times On-line.
 W 19 VO 05 0

804-253-2307 VA Williamsburg
LightOTheBurg Nelson Scott
 Christian/family oriented.
 W 29 V 10+ 1

804-468-6454 VA Virginia Bch
Straight Board Ray Sulich
 Echos, files, doors.
 B 19 FD 200+ 2 3

804-596-2131
Time Out! BBS Mark Solomon

805-374-9997 CA ThousandOaks
The Matrix Denny Cherry
 Games, general files.
 W 09 B 4 1

805-499-5717
Formula 350 Eric Lundberg
continues...

Make \$3k a month, Become a PC Consultant

Can you hook up a modem, printer, install ram or software? Then I can show you how to make good money helping people with their computers in your local area - call 800-330-9112/714-838-0387, E-Mail Profitopp@aol.com. Ask for offer BBSM795 for free info on the new home study course/manual "How To Make \$3,000 to \$5,000 A Month Working As A Part-Time Computer Consultant" by Matthew Ferry.

Support board for BBS Magazine

(print and Online Edition) and Livewire Doors.

THE LIVEWIRE BBS

Subscribe online or register doors using V/MC.

Internet - **Publisher@BBSCD.COM**

Fidonet - **1:266/36**

Get ad rates, insertion forms and deadlines.

609-235-5297

CALL FOR A FREE LOOK!



Pics OnLine!

What's OnLine?

- Hot Adult Graphics
- Multi-Node Chat
- Windows, Netware, OS/2, and Lantastic Network Tools
- Ham Radio and Shortwave Listening
- MIDI and Soundblaster Files
- QWK Packets for off-line reading of over 400 worldwide conferences
- Internet and Fidonet E-Mail Access
- 4.5 Gigabytes - New Files Daily

609-753-2540, HST & V.22
 609-753-2605, HST & V.32
 609-753-1549, HST & V.32bis

30 Minutes Free Access Per Day

The A-List

805-734-3878 CA Vandenberg
The Launch Pad Rick Olsen
 Files, games.
 B 29 D 30+ 3 \$ 1

805-945-0349 CA Lancaster
Metropolis Mike Johns
 FidoNet hub, Internet, games.
 T 19 FV 24+ 2 3

805-964-4766
The Seaside Les Jones

809-283-6942 PR San Juan
Centus Edfel J. Rivera
 Business related.
 W 29 V 7 1 2

809-781-4207 PR Guaynabo
Hurricane BBS Luis Benitez
 Multiline chat, files.
 W 19 D 10+ 2 \$ 1

810-346-2236 MI Brown City
Tri-County BBS Dan Butterfield
 Files, Fido-Net, Internet, graphics.
 X 29 VO 6+ 1 1

810-363-0554 MI Walled Lake
Nth Dimension Jim Eller
 General, online games, files.
 W 09 FD 20+ 1

810-476-5713 MI FarmingtonHts
ENCO Systems Gene Novacek
 ENCO software products.
 O 09 VO 40 2

810-477-6695
The Soul Conn Mike Demski

810-546-4467 MI Ferndale
Comm Connect Jeff Squires
 IGA-NET, FidoNet.
 Y 09 DF 10+ 1

810-631-6885
The Casual BBS Pat Cargill

812-254-9601 IN Washington
Junk Yard BBS Barry Hauser
 New releases, bus., games, etc.
 F 19 V 10+ 1

812-299-9306 IN Terre Haute
Ivy Tech's BBS Philip Brown
 Educational, files, free, fun.
 F 29 FV 11+ 1 2

812-428-3870 IN Evansville
"YA! WEBCAD!" Don Habegger
 41Gig, 210000+files, BW TOP.
 W 19 F 410+ 5 \$ 3

812-475-0434 IN Evansville
Rustic Inn BBS Ronald Benjamin
 Free exchange of information.
 W 09 V 10+ 1

812-898-2561 IN Terre Haute
Flaming Star Ted Gervais
 CD sales, programming support.
 F 29 V 40+ 1 2

813-639-7170 FL Punta Gorda
Joes Bar & Grill Joe Jepsen
 Mystic Net, wcCode, PGP.
 W 19 V 6+ 1

813-934-7881 FL Holiday
Planet Alderan Dale Hutchinson
 Star Wars support BBS.
 P 19 D 10+ 1

813-942-0323
Genesis Network D. Thompson

813-949-4993 FL Lutz
PC-Help! Walter Zipper
 Extensive new user support.
 B 29 DF 45+ 6 1

815-458-3910 IL Braidwood
Monkey Rob Cnr George Rozak
 General purpose board.
 S 09 V 10+ 1

815-795-6371
Squirrel's Nest Neal Roberts

816-632-3297 MO Cameron
PC-LYNX Bob Schmidt
 Free Internet email, CUG.
 W 09 FV 40+ 4 3

816-746-6911 MO Parkville
Nikonos V Dennis Smith
 180 online doors, magazines.
 L 99 DF 10+ 1

816-747-8018 MO Warrensburg
Modemia Rob Shaw
 General files, swimwear GIFs.
 W 29 V 13+ 1

817-355-9252
Contrails BBS Joe Richter

817-468-8677 TX Arlington
PrimeTime Spor Doug Ditto
 Sports, games, and LORD.
 W 29 VO 5+ 1 \$ 2

817-473-2089 TX Mansfield
We Do Windows Scott Boyd
 Windows shareware.
 T 29 FV 14+ 1

818-344-7777 CA Calabasas
The K-Fone BBS Scott Summers
 Online games, jokes, GIFS.
 V 99 FV 14+ 2

818-447-6100 CA Arcadia
aussie M.Szabados
 Chat, files, games.
 M 09 V 100+ 18 \$ 3

818-448-0672 CA Arcadia
IntelNET(tm) Fred Coles
 Business networking.
 X 29 F 3+ 2 \$ 3

818-584-1952 CA Pasadena
Hilsbbs-KB6AXK Joe Cira
 Amateur radio HAMS.
 W 09 O 21+ 1

818-609-9276 CA Reseda
Solaris Jim Burrows
 Online gaming access.
 F 29 V 21+ 2 3

818-727-7639 CA Chatsworth
Sleuth Mark Valentine
 Over 4,000 conferences.
 S 19 V 30+ 3 \$ 2

818-919-6285 CA Diamond Bar
NightPlayer Leon Lien
 Dedicated to Microsoft AVI.
 B 99 F 14 2 \$

901-327-1895
Metroplex BBS Rick vanHooser

902-679-2258 NS Coldbrook
Ted's BBS Ted Gervais
 Games and message centers.
 B 99 FV 10+ 3

903-566-1927 TX Tyler
Data Center Bruce Bates
 Business related.
 X 29 VB 10+ 1

904-323-8684
Up All Night BBS Rob Warren

904-328-2925 FL E. Palatka
HauntedMansion Jim Bailey
 Christian.
 X 29 BH 900+ 1

904-375-3500 FL Gainesville
Dragon Keep Richard S. Mark
 General.
 M 09 D 100+ 40 \$ F

904-671-3734 FL Tallahassee
BROTHERHOOD Ryan Allen
 Adult areas.
 P 19 D 9+ 1

904-969-0157 FL Pensacola
Snake's Den Randy Davila
 Latest file, door games.
 B 29 F 5+ 1

907-333-0565 AK Anchorage
POW BBS Wade Hamel
 Files, games, chat, free speech.
 M 19 V 14+ 4 \$ 3

907-488-3751 AK North Pole
TC's BBS Tom Creek
 Alaska information.
 Q 09 FV 25+ 2 1

907-790-1942 AK Juneau
Club Alaska Jim Plotts
 Subscription Internet access.
 X 29 VF 26+ 3 \$ F

908-253-0897 NJ Manville
Linken Review Ken Smith
 Doors, chat, messages, files.
 W 29 V 4+ 3

908-276-4405
The Vector Jo. Delvecchio

908-521-1357 NJ Monroe Twp
Eagle's Nest Neal Newman
 Wildlife conservation general.
 B 19 D 270+ 5 3

908-526-7271 NJ Raritan
Virtual Gamer Joel Chambers
 Strategists & roleplayers.
 W 19 FV 5 1

908-572-5762
Dataland! BBS Rick Young

908-632-9703 NJ Edison
USBBS -TBBS Peter Eskow
 Family BBS, files, mesages, games
 T 09 FV 14+ 5 1

908-634-5117 NJ Woodbridge
Best Buy Onlin John Carroll
 Graphics & shareware
 B 29 V 55+ 5 \$

909-797-3135
CyberCulture Todd Novak

909-925-9564
The Ouija! Board Keith Burgner

910-292-1979 NC Greensboro
The Billboard Bill Bailey
 Computer professional, hobbyist.
 W 09 V 14+ 2 3

910-579-1672 NC Calabash
LoOnEy BiN! Pat Finnerty
 General system.
 Q 19 FD 7+ 1 1

910-591-8512 NC Germanton
N State Online Gary Dudley
 The information scenic route.
 W 29 D 2+ 1 3

910-595-8073 NC Walkertown
PC-Motorsports Ronald Conrad
 Motorsports, NASCAR, race.GIF.
 W 29 DF 14+ 1 1

910-659-0576 NC WinstonSalm
PC Addict Jim Ribet
 OS/2, Linux, messages.
 O 19 FV 600 1 1

910-659-9121 NC WinstonSalm
PC Solution Jeff Moen
 OS/2, PC service & support.
 B 29 FV 54+ 2 3

912-236-0083 GA Savannah
Wildd Cardd Orvel Schrum
 General family & community.
 M 29 FV 12+ 6 F

912-328-9909 GA Wrnr Robin
Cafe! BBS Michelle Mendez
 Business and adult.
 W 29 FO 14+ 150 \$ 1

912-436-9557 GA Albany
TCS BBS Jerry Luckey
 Comic books & H/P/A related.
 I 29 V 12+ 1 1

912-474-8010 GA Macon
Online Macon Chris Coggins
 True Windows, games, chat, Inet.
 M 29 FV 7 12 \$ 3

912-538-7950 GA Vidalia
Cornerstone Michael Brazell
 General purpose small town.
 W 29 F 11+ 1 \$

913-784-7171
The Publishing Mike Robinson

914-226-3249 NY Wappingers
Flashover Tom Walker
 Fire, EMS, and police svcs.
 W 19 V 1 1

914-227-4402 NY Hopewell Jct
Tholian Web Tom Walker
 Star Trek orientated BBS.
 W 19 V 2 1

914-426-0729
Mirage Network Brian Buffell

914-472-0779 NY Eastchester
EastNet Mark McCarthy
 InterNet access, politics.
 I 29 V 10+ 1 1

914-477-0264 NY Greenwood
La
The Lake BBS Greg Wright
 Adult files, doors, and more.
 W 29 BV 13+ 2

914-621-2865
Drk Side of Moon Peter Cacchioli

914-683-3788 NY Valhalla
Skywave One Larry Spinner
 Message oriented, HAM radio.
 X 09 V 1 1

914-744-5085 NY Pine Bush
Farbys Funhouse Gary Farbman
 Education; based in a school.
 B 19 D 12+ 1 1

914-833-1479 NY Larchmont
Powerboard HQ Scott Brown
 Powerboard BBS software.
 X 09 D 3 2 1 1

914-835-2373 NY Harrison
Brentwood Guy Cappello
 75 On-line doors, adult area.
 B 19 FD 14+ 12 \$ 3

916-247-1232 CA Redding
EBS MSystems Bruce Knapton
 File distribution system.
 B 09 VF 253 10 \$

916-534-5329 CA Oroville
TDEC West BBS John Young
 Email, games, technical.
 I 29 D 16+ 2

916-583-7980 CA Tahoe City
Yet Another BBS Joel Rodriguez
 Business-related.
 W 09 V 5 3 \$

916-585-2281
Golden Stater Gregory Smith

916-587-6947 CA Truckee
Cheshire Cat Sally Kosh
 Broad focus, free, big.
 B 99 F 34 3

916-635-4157 CA Sacramento
VacationTravel Ron Ablang
 Adult files.
 Q 09 FO 5 1 \$

916-739-8044 CA Sacramento
Mr. Boogey's Richard Epling
 Games, Files, Messages.
 F 09 V 2 1

916-889-8410 CA Auburn
T.S.BBS.Around Jon Anderson
 Files.
 I 19 V 1 1

916-929-7511 CA Sacramento
BOBSBBS, USBBS Bob Breedlove
 Home of USBBS and BOBSWARE.
 X 09 F 2 1

916-966-3115 CA Fair Oaks
Boater's Mktpl Dale Gilbert
 Boating & watersports
 M 09 B 3 2

918-272-7779
Black Gold BBS Michael Cline

918-627-0923
The Hub! BBS Warren
 Farrimond

919-735-6889 NC Goldsboro
PowerHouse James Bleacher
 Chat.
 T 09 V 8+ 4

970-244-8420 CO Grand Jct.
Mirror Image Mark Feil
 Registered DOORS, multiple CDs.
 W 29 VF 14+ 2

Subscribe Today

Call Toll-Free 1-800-822-0437

charge your subscription to Visa or MasterCard.

The following collection of Telnet-accessible BBSs is a unique version of the SBI List maintained by Richard Mark, sysop of Dragon Keep BBS (904.375.3500/Telnet: dkeep.com, or 198.79.54.10). Versions of the list can be found at the sites noted in the box below. Bulletin boards new since the last revision are given full descriptions.

* = New since last revision

A World Locally bbs.locally.com	205.147.78.131
Absolute Connection a-c.in.net	199.0.62.164
Access Nevada spillway.accessnv.com	199.2.253.3
ACE InfoSystems aceinfo.com	199.190.76.2
AdeptXBBS adeptsoft.gate.net	199.227.57.1
Advanced Data Services BBS bbs.adsinc.com	199.190.73.3
AECNET™ aecnet.com	198.4.60.200
After Hourz BBS ahbqs.com	204.134.204.10
Afterimage Information Matrix aim.novasys.com	204.178.181.2
Aladdins Palace aladdin.bc.ca	204.174.112.252
Albuquerque ROS abq-ros.com	204.68.29.244
Alien's SpaceShip BBS Aliens.com	199.190.82.2
Almac BBS almac.co.uk	193.114.248.3
Amateur Radio INTERNET BBS wb3ffv1.sed.csc.com	20.2.1.80
America's Suggestion Box asb.com	165.254.128.1
*ANARCHY ONLINE "The resource for Revolutionaries," online since May of 1993. anarchy-online.com	199.1.91.250
Anarchy-X BBS bbs.ax.com	199.184.188.10
The Annex! annex.com	204.74.67.1
Another World™ awol.com	204.160.88.13

WWW: http://dkeep.com/sbi.htm Includes a "Guided Tour of Internet," BBSs from around the world.
FTP: dkunix.dkeep.com (in /pub/sbi) login:anonymous gcomm.com (in /internet) login: anonymous ftp.rahul.net (in pub/wco) login: ftp
Finger: sbi@dkeep.com (Information about the SBI List) sbiq@dkeep.com ("Quick" Guide to Select BBS's on Internet) sbi-info@dkeep.com (Revision Information for current list) sbi-sysop@dkeep.com (How to Become a Part of the SBI list)
BBS: Dragon Keep — dkeep.com / 904.375.3500 (signup, then type /GO SBI)

AOP BBS	198.232.144.101
Appraisal Professional Online apo.com	199.172.5.2
Aquila BBS aquila.com	204.95.88.5
Arizona InterActive Systems azi.com	199.190.114.2
astro.net BBS astro.net	204.215.32.26
The Atlanta Windows BBS bbs.atlwin.com	155.229.44.2
Atlantis BBS atlantis-bbs.com	199.4.124.69
Atlas BBS atlantis-bbs.com	204.189.37.1
Austin Clubhouse BBS club.fc.net	198.6.198.98
Barney's Rubble rubble.fidouk.org	194.70.36.10
Barter America BBS barter-usa.com	192.207.47.72
BBS One Online Service bbs.prgone.com	199.18.119.129
*THE BEHAVIORAL HEALTH NETWORK For behavioral health professionals and managed care companies. behavnet.com	199.190.85.1
The Big Easy bigeasy.com	204.27.71.10
Black Gold BBS bgbbs.com	198.65.131.18
Blitzkrieg Information BBS blitzinfo.com	199.190.90.2
Boardwatch Magazine BBS boardwatch.com	198.211.187.1
Boston Dungeon Society bdsbbs.com	199.242.194.90
Brainstorm BBS bstorm.bgs.com	198.84.216.1
Bryant Software bryant.com	199.45.158.193
Canned Ham Bulletin Board anarky.tch.org	199.173.244.1
Caribbean Online Network for Info conet.com	204.183.157.10
The Castle BBS castlebbs.com	199.190.83.2
CCS World ccsnet.com	199.172.47.2
Cetys BBS cetysbbs.mxl.cetys.mx	158.122.1.9
CHANNEL 1® bbs.channel1.com	199.1.13.5
Christie's Internet Matchmaker bounced.email.net	199.33.241.97
*CINCI-NET Live games, chat, teleconference, Internet. 21 years of age and over only. cinci.net	199.6.38.4
*THE CITY LIGHTS Usenet, Fidonet, WildNet, BirdNet, and MsiNet. Over 7.1 GB of online storage. tclbbs.com	199.199.125.37
Cleveland's Worldnet worldnetoh.com	204.248.180.53
Close Encounters Adult Close.packet.net	199.1.77.17
Closer to Home BBS close2.brisnet.org.au	203.4.149.98
Cloud City cloud.com	199.190.94.2
*CLUB BBS Spanish, some English speaking forums. Mexico, its culture and people. club.gdl.iteso.mx	148.201.1.18

Colossus Box colossus.com	198.3.118.19
Columbus Online cols.com	205.133.92.2
Comm 2 comm2.com	199.92.200.58
COMM Port OS/2 juge.com	199.100.191.2
Comp-U-Find Online comp-u-find.com	199.79.146.33
ComPart BBS compart.fi	193.64.198.200
Compu-Plane compu-plane.com	198.68.17.57
The Computer Factory tcf.com	204.212.163.100
ComputerLink Online, Inc. mbbs.compulink.com	199.166.254.2
CONNECT 2000 BBS connect2000.com	204.177.193.251
The Connection BBS connection.com	204.138.111.2
*CONNECTIONS Adults only. Chatlink. Multi-player games. connections.ultranet.com	199.232.102.151
ConXtion ConXtion.Com	199.190.84.2
Country Online online.music-city.com	199.190.71.2
Courier Online col.evansville.net	204.120.30.100
COWZ - The Cattle Crossing on the cow.net	204.96.52.4
CRIS [Concentric Research Corp] cris.com	199.3.12.13
The Crystal Ball BBS theball.fileshop.com	199.79.146.181
The Crystal Barrier bbs.delta-eng.com	156.46.162.20
Crystal Quill cq.cqi.com	199.125.162.3
Cutting Edge Technologies BBS cetbbs.cet.com	198.17.249.250
The Cutting Edge! tce.net	204.193.159.10
Cyber Warrior Network outland.cyberwar.com	204.97.1.4
Cyber/Chat! cybercom.com	199.171.196.2
The CyberDen cyberden.com	199.4.64.18
*CYBERIA Local, national serv. Home of TBBS Zone, eSoft sales, 3rd party add-ons. cyberia.com	205.160.224.1
*CYBERKOREA Free basic access, shareware, 14 CDs, forums, teleconf, Korean files and info. cyberkorea.com	165.113.175.2
*CYBERLINK CD-ROMs, files. Friendly, chatty; emphasis on being suitable for people of all ages. lin.cbl.com.au	203.7.198.205
Cyberspace BBS cyberspace.grnet.com	204.96.30.25
Cyberspace7 BBS cyberspace7.ptd.net	204.186.240.1
CyberStation Finet.com	204.176.215.10
Cyberverse cyberverse.com	134.24.3.50
Datacom datacom.net	204.120.33.199
DataSafe Publications BBS dsafe.com	199.190.74.3
The Davasoft BBS dava.com	204.176.6.5
deltaComm Online delta.com	204.32.41.2

*DENTAL-X-CHANGE Dental professionals; teleconferencing, shopping, employment service. odont.com	199.190.92.2
*DESERT JEWEL Full Internet. Online mall. Chatlink. dj.kern.com	204.212.36.4
Digital Concepts BBS dconcepts.com	165.247.101.21
Digitec Online bbs.digitec.co.za	196.11.62.106
Doctor's Office BBS / Falken Supp docs.dgsys.com	204.97.64.6
Dragon Keep International dkeep.com	198.79.54.10
Dream Link Online Information Ser auburn.maine.com	204.176.0.14
Dreamscape BBS dreamscape.com	199.67.38.67
Dreamscape Entertainment Service dscape.cyberstore.com	204.244.18.12
DSC BBS / Voicenet dsc.voicenet.com	192.204.28.9
DSP Information & Entertainment dsp.com	199.4.121.1
Eager Beaver Computers MBBS beaver.com	199.79.239.43
Eden BBS edenbbs.com	199.190.73.2
Edex rainbow.galviz.co.uk	193.117.217.1
Edward Lowe Foundation BBS bbs.lowe.org	192.195.202.2
Electronic Lucidity elbbs.id.net	152.160.9.50
*THE ELECTRONIC UNIVERSE BBS Worldwide teleconf., Internet access, multi-user games, over 5GB of files. e-universe.com	199.67.39.129
Elysian Fields castle.elysian.net	204.181.47.5
Empty Spaces BBS bbs.empty.com	198.30.235.51
*THE ENDLESS FOREST Alternate space/time continuum. forest.novia.net	204.248.24.1
Endless Mountain CyberSPACE emcyber.com	198.70.189.74
The English Palace palace.com	199.171.54.2
Entertainment and Consumers Netwo ecn.ecn.com	198.211.192.146
Escape Escape.com	198.6.71.10
eSoft Support and Demo BBS esoft.com	199.45.143.2
EuroGate iit.nl	193.67.253.33
Europe / EuroLink! eurolink.com	193.92.253.70
EveryBuddy's BBS busstop.com	192.80.84.229
Exchange BBS exchange.org	204.89.181.2
Exec Talk BBS bbs.mps.com	198.69.107.208
ExecPC bbs.execpc.com	204.29.202.4
Executive Network Information Sys gateway.execnet.com	198.232.143.136
EXIT 13 vegas.roc.servtech.com	204.181.3.147
Eye Contact BBS bbs.eyecon.com	204.94.37.2
The Eyes of Time BBS eyesofttime.com	198.6.201.206
EZLink Internet Access ezlink.com	199.45.150.1
EZNet eznetny.com	198.4.60.100
Fairfield Community Connection fcc.com	199.190.101.2
The Fetish Network BBS fetish.wisenet.com	198.69.101.20
The File Bank BBS bbs.tfb.com	198.68.171.210
Final Frontier BBS ffbbs.seanet.com	199.181.166.212

continues...

FI0aTing PAnCReAs
sfpg.gcomm.com 199.227.15.30

The Flower Link BBS
flowerlink.com 199.234.116.2

FOUR.net
FOUR.net 198.70.45.3

France Online
france.com 199.4.122.2

***FULL ACCESS BBS**
Worldlink 18 hours per day. Seven GB of files, adult access, friendly chat.
fab.bossnt.com 198.150.37.210

G.L.O.B.I.E.
net1.intserv.com 199.67.39.34

G.O.D.
acadh2.isisnet.com 199.45.83.11

Galacticomm DEMO System
gcomm.com 199.227.15.16

The Game Master
gm.gamemaster.qc.ca 199.84.216.2

Game Power Headquarters Online Ne
gamepower.com 204.183.165.2

GarBaGe DuMP BBS 199.190.74.2

Gateway Online
bbs.gatecom.com 198.87.17.102

Global InfoNet
california.com 140.174.210.4

GRAFIX
grafix.com 166.82.150.31

Grand Rapids Online
gronline.alliance.net 198.110.232.3

The Granola Board BBS 204.188.1.17

The Graphics Alternative
tgax.com 192.215.97.35

***GREAT GIG IN THE SKY**
Intelligent, non-restricted discussion. Music-oriented. Musicians' samples.
greatgig.com 199.201.191.102

Green and Yellow
greenandyellow.btm.com 199.199.195.1

Ground Zero BBS
gzero.com 199.231.128.222

HACOM BBS
bbs.hacom.nl 193.67.233.1

Hal 9000
hal9k.com 152.160.13.1

Heartbeat BBS
heartbeat.org 199.190.113.2

Hellas On-Line
hellas.hol.forthnet.gr 193.92.136.35

Hi-Teck's Place
htp.com 199.171.4.3

High Society
hs.wisenet.com 198.69.101.2

The Hole in the Wall
holinwall.sos.net 199.165.149.4

Hotel California
kincyb.com 165.90.141.2

IACC ONLINE BBS
iacc.housing.umich.edu 141.211.151.30

Idaho Interactive BBS 199.190.75.2

The INDEX System™
index.com 204.117.209.1

InfINet=81
shakti.txinfinet.com 204.96.111.157

Infinite Data Source On-Line Serv
bbs.idsonline.com 204.157.204.157

Infinite Loop BBS 155.64.60.31

Infinite Space Online
ispace.com 204.227.13.1

InfoNet Information Superhighway
infonet.isl.net 199.3.25.4

InfoNet Bulletin Board System
infousa.com 199.1.77.11

InfoPort
infoport.com 204.131.1.21

***INFORMATION HIGHWAY ON-RAMP**
Adult, local chat, Interlink, Telnet, FTP, IRC, Archie, Gopher, Usenet, 12 CDs.
on-ramp.com 199.190.96.2

Instant Access
instbbs.camba.com 199.125.139.1

Instant Global Access 155.212.31.34

Interact! BBS
bbs.ohana.com 204.182.45.3

Intercom Online
InterCom.com 165.254.1.205

Interludes BBS 204.91.106.4

***INTERLUDES ONLINE**
Home of Humanware Systems — add-ons for MBBS, Internet.
bbs.hwsys.com 204.74.71.1

In the Feet of the Night
Solely for the foot lover; original photos, chat rooms, running Durand's MindWire.
intheftofthenight.com 204.183.201.1

InTheNet BBS
inthenet.com 199.1.222.195

IONX
ionx.com 166.93.12.44

IPlay On-Line
isplay.interplay.com 199.182.210.2

Iris BBS
iris.mother.com 198.93.80.138

Jaguar BBS
jaguar.pue.udlap.mx 140.148.4.100

Janis II - Tokyo
asianet.net 202.32.39.111

The Jungle BBS
jungle.net 199.171.27.184

***JURIS.COM BBS**
Legal info, Workman's Comp, labor law, and insurance law.
juris.com 165.90.133.2

KBBS Los Angeles
kbbs.kbbsnet.com 204.96.25.7

Kingston Online Services 199.246.2.200

***KNOXVILLE NEWS-SENTINEL NEWSNET**
The largest newspaper in E. Tennessee.
newsnet.knoxnews.com 204.71.5.10

The Kobayashi Alternative BBS
tka.com 204.117.63.1

LaserBase Communications
laserbase.com 198.3.118.114

LeClub BBS
lia.infolink.co.za 196.14.80.33

LegacyNet
lgn.com 199.190.102.2

Liberty BBS
liberty.com 199.89.140.106

LIFESTYLE ONLINE
lifestyle.com 166.82.150.22

Liquid Sky BBS
liquidsky.com 199.45.245.131

Livewire 198.53.239.3

Logic Circuit
logicom.com 199.190.88.2

LOIS: the Link Online in Santa Ma
lois.org 199.74.141.38

Love Bytes 204.96.26.2

***MAGIC BUS**
The largest Major BBS in the State of PA
magicbus.com 204.193.157.249

Magnus Online
online.magnus1.com 204.97.15.6

***THE MALE BOX BBS**
Alternative lifestyles adult BBS. Full Internet access, local and national chat.
 166.93.11.77

The Male Forum
mforum.com 166.82.150.41

Maloca BBS Toronto
bbs.maloca.com 198.53.160.20

Maloka BBS Warsaw
bbs.maloka.waw.pl 198.59.67.10

***MASTERPIECE**
masterpiece.com 204.30.116.11

Meeting House BBS
tmh.bbsnet.com 199.1.41.21

Metro Online BBS
nycmetro.com 204.96.9.2

Metropoli / StarPort BBS
unix.mpoli.fi 193.210.15.65

Metropolis ClubMet
methub.metrobbs.com 198.69.223.40

MHVnet
mhv.net 199.0.0.3

Micro Village BBS
mvbbs.siae.com.sg 202.42.230.10

Mike's BBS
bbs.gar.no 192.150.211.10

Miller's Party Board
mpb.com 199.190.89.2

MindVox
phantom.com 198.67.3.2

mixBBS
mixbbs.commdesign.com 204.164.84.22

Mnematics Videotex
vtx.mne.com

***MODEM MADNESS BBS**
Shareware and GIF, chat, Internet access, email, games and more.
 199.224.91.79

The Modem Nation
bbs.modemnation.com 199.67.37.66

***MOONFLOWER**
Full T-1 Internet connection. Dial out to over 60 other worldwide BBSs.
moon.iea.com 198.17.249.11

MPI Online Services 204.71.44.3

Mr. Natural's BBS
bbs.mrnatural.com 165.227.31.248

Multi-Comm Las Vegas
mcomm.mclv.net 204.95.95.253

Multiverse
telnet.multiverse.com 199.218.112.3

***MUSIC & MORE!!! BBS**
Freedom of speech, music; newsgroups, chat, games/doors, private mail areas.
mambbs.dnaco.com 199.3.29.10

NandoNet
camelot.nando.net 152.52.2.13

Nasty Playmates
np1.com 204.139.8.2

Needful Things BBS
needfulthings.com 199.221.95.12

NET-LINK ONLINE
net-link.com 165.113.201.2

NETIS
bbs.netis.com 198.186.186.7

New Jersey Computer Connection
pluto.njcc.com 165.254.117.51

The Newtonian BBS
newton.com 152.160.5.37

NFE BBS Naperville File Exchange
nfebbs.nfe.com 199.89.235.68

Nitelog BBS 165.227.94.25

***NUCLEUS!**
450 MB online; 24-hour chatlink, Internet
nucleus.atom.com 204.49.61.5

Nucleus Information Service
nis.nucleus.com 199.45.65.130

Nurse Net Nederland
bbs.nursing.nl 193.78.222.138

Odyssey Online
odyssey.ody.com 199.170.18.2

Olympia Online
uranus.olympia.com 204.77.68.7

On-Line Entertainment
connect.on-line.co.uk 193.114.22.1

Onix BBS
onix.com 198.70.191.82

Online Computer Distribution
main.oncmdis.on.ca 204.101.15.3

Online Data Systems
ods.net 204.95.172.4

Online Montgomery 204.96.29.2

Online Orlando
oo.com 198.206.133.4

OnLine WelCome
bbs.onwe.co.za 196.7.192.2

OS/2 Shareware BBS
bbs.os2bbs.com 204.194.180.10

Pacific Connections
paccon.com 199.74.141.67

**For Sexy, Adult Fun
On The Information
Super Highway . . .**

**STOP
HERE**

Lifestyle OnLine:

Meet 3000+ sexy couples & singles on the world's hottest & most active adult chat system.
Modem: 516-689-5390 (local access from 1000+ cities)
Internet: Telnet lifestyle.com (166.82.150.22)

The Male Forum:

Where men meet men every day. Absolutely the world's most erotic GAY CHAT system.
Modem: 516-689-0286 (local access from 1000+ cities)
Internet: Telnet mforum.com (166.82.150.41)

Grafix:

XXX-rated computer pictures hot enough to melt your modem. Every file is worth downloading.
Modem: 516-689-2853 (local access from 1000+ cities)
Internet: Telnet grafix.com (166.82.150.31)

Netted Boards

Pacific Horizons
 pacific.seanet.com . . . 199.181.167.246

Pacific Online Data Service
 pods.pacific.com . . . 199.2.117.106

Paradigm Online . . . 202.33.54.66

Paradise Play Line BBS
 pplnet.com . . . 198.64.53.173

Party Line Entertainment
 bbs.party.com . . . 166.82.196.2

PC Genius . . . 158.182.6.137

PCS Online Services
 bbs.pconline.com . . . 204.251.132.2

PENN-COMM BBS
 mailer.pennet.com . . . 199.234.141.3

Pennsylvania Online!
 paonline.com . . . 198.69.90.250

Phantasy BBS
 bbs.phantasy.com . . . 156.46.216.10

Pics On-Line BBS
 bbs.pics.com . . . 192.135.189.200

Pink's Place BBS
 pnx.com . . . 199.190.97.2

Point Blank
 pointblank.com . . . 204.117.211.3

The Porch BBS
 bbs.theporch.com . . . 199.1.88.66

The Power Exchange
 tpe.com . . . 199.190.65.10

Powersystems BBS
 pwsbbs.com . . . 205.148.196.2

The PressRoom
 pressroom.com . . . 198.69.131.1

Principle of Obscurity BBS
 obscurity.pd.mcs.net . . . 204.137.229.20

Prism BBS
 prism.com . . . 199.190.77.3

ProLink . . . 204.95.170.95

Prostar Plus Information Network
 prostar.com . . . 204.57.131.1

Proton Palace
 proton.com . . . 198.53.206.68

Public Data Network
 bbs.chatlink.com . . . 198.68.7.2

Rain Forest Systems, Inc [RFSI]
 garden.hvs.com . . . 204.96.24.10

RCI [Ripco Communications Inc]
 foley.ripco.com . . . 198.4.164.3

Revolution! Online Services
 revolution.com . . . 199.3.179.1

Rock Garden
 garden.hvs.com . . . 165.247.49.130

Rock Pile BBS
 rockpile.com . . . 198.6.114.251

S & H Computer Systems BBS
 sandh.com . . . 199.1.88.68

Sacramento Exchange BBS
 iccse.com . . . 204.87.174.10

Salt Air BBS . . . 199.67.41.252

Silicon Matchmaker BBS
 silicon.email.net . . . 204.152.80.17

SIO Support BBS . . . 199.248.240.2

***SIR JOHN'S PUB BBS**
 Conf., travel ag. and florists; delivery
 menus and restaurant guides.
 SJPub.com . . . 204.215.137.174

Smurph Land BBS
 smurph.com . . . 199.250.197.34

Software Connection Online
 sco.softconn.co.za . . . 196.7.110.4

Software Creations
 swcbbs.com . . . 204.68.200.2

Softworks
 softwork.com . . . 204.17.139.101

*** THE SORCERY BOARD BBS**
 Free Internet access BBS with files,
 games, and message areas.
 warp1.weschke.com . . . 204.91.224.3

Southern Star BBS
 sstar.com . . . 204.27.72.2

The Spa!
 the-spa.com . . . 204.97.227.2

Spider Island BBS
 spiderisland.com . . . 199.35.3.99

SPIN
 spin.com.mx . . . 200.12.165.19

The Spring Guide
 spring.com . . . 198.3.118.21

Starship II BBS
 starship.com . . . 192.204.28.48

Starship Sirius
 sirius.america.com . . . 199.170.102.6

Strategic Online . . . 156.46.30.2

Studio PC Information Services
 studio.com . . . 199.231.128.235

Sun.One
 news.jou.ufl.edu . . . 128.227.230.225

Superlink
 bbs.superlink.net . . . 204.97.320.5

SuperStation BBS
 dias.diro.com . . . 204.94.162.82

SVIS
 sviv.org . . . 198.77.8.11

Synergy Entertainment Network
 sen.com . . . 199.190.79.2

Synergy Online Communications
 bbs.soc.com . . . 204.117.97.2

TDS Online International
 dstar.com . . . 205.139.177.3

Techlands BBS
 bbs.techlands.com . . . 199.67.37.132

TnT Online
 TnTOnline.com . . . 204.145.237.2

Toledo's TBBS
 tolltbs.com . . . 204.120.66.2

Top Secret BBS . . . 204.180.236.101

Topgun BBS
 topgun.cvinet.com . . . 204.97.71.2

TPL
 tpl.com . . . 199.3.240.65

Trader's Connection [TCON]
 trader.com . . . 204.120.67.2

Tranquility Base . . . 199.3.234.248

TRIBnet . . . 199.2.128.3

Trilogy On-Line Service™
 trilogy.net . . . 199.67.35.40

Twinturbo Demo System
 twinturbo.ais.net . . . 199.0.154.200

The UPS Depot
 depot.netnet.net . . . 198.70.69.9

VIA™ Net
 165.247.47.7

Villa BBS
 rvik.is . . . 193.4.107.1

The Virtual Gateway
 vgateway.com . . . 199.227.60.2

The WELL
 well.sf.ca.us . . . 192.132.30.2

West Coast Online BBS
 bbs.calon.com . . . 199.4.94.8

Wingham Online
 wingham.com . . . 165.154.42.73

Wireworks Christian & Community
 wireworks.com . . . 199.1.85.65

Women's Wire
 wwire.net . . . 204.160.94.132

World Data Network BBS
 wdn.com . . . 198.232.144.1

WorldCHAT BBS
 bbs.wchat.on.ca . . . 204.138.239.20

WorldWorks Symposium
 worldworks.com . . . 204.119.163.23

Zagreb
 zagreb.gcomm.com . . . 199.227.15.33

WE SUCK...

...in 100's of new files daily from satellite!!

21 GIGs OF NEW FILES!

FREE FOR THE LADIES!

FREE FULL DEMO'S

TOLL FREE ACCESS #s

TELNET: **cris.com** (BBS DIRECT!)



X HOTTEST ADULT CLUBS ONLINE

X CHAT LIVE WITH 100s - 24 hrs!!

X FREE Internet Mail. Usenet & More

X HUGE Social Clubs - ONLINE !!

X 24 Hr. Satellite News & Weather

X Business Info. / Capital Venture!!

X HUGE GIF LIBs! All Lifestyles!!

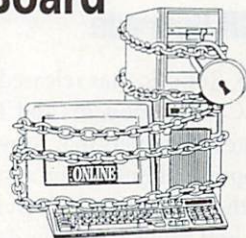
X Online Shopping & Adult Malls

X Virus Research & Ham Op. Club

512-887-0787 CDS-BBS

Has Your Bulletin Board Locked Up Lately?

A Locked BBS is a Useless BBS.



Teleboot BB-100™

The BB-100 will automatically "reboot" or reset a locked-up or hung telephone system.

Any incoming phone call will automatically reset your locked-up bulletin board, voice processing system, or other unattended telephone system without you even being there!

Under normal operating conditions, the BB-100 is totally transparent to the system's operation. If the modem fails to answer an incoming call by the fourth ring, the unit will remove power for approximately 20 to 30 seconds, then restore power, "rebooting" the locked-up system. During this boot-up cycle, all incoming calls will be blocked out until the system is ready to accept a call. Price \$189.00



U.S.A. COMMUNICATIONS CORP.

Leaders in Remote Communications

493-9 Johnson Ave., Bohemia, N.Y. 11716
 800-724-5434 516-244-6851 FAX: 516-244-5725

that's a 64 percent increase over June of last year.

The report suggested Media hype surrounding the launch of Microsoft Network (MSN) and the widespread interest in having access to the World Wide Web helped prompt the growth. It also raised the question of whether an exodus away from other online services and to MSN would take place.

America Online topped the heap again, adding a million subscribers. CompuServe posted a second-place finish with 500,000 newcomers (the biggest service, with 3.2 million) and Prodigy rounded out the top three adding 300,000.

According to the report, America Online had three million subscribers, Prodigy 1.6 M, Delphi 140,000, eWorld 90,000, and GENie 75,000.

ISR's BoxScore is a quarterly collection of consumer-oriented online systems. The Report is published biweekly by the Multimedia Publishing Group in Washington, D.C. For more information contact Business Research Publications at 202.842.3022.

USR Upgrade

U.S. Robotics has released software for its Courier modems and Total Control system products that provides 33.6 Kbps capabilities. The software is part of the company's V.Everything feature set and provides higher data rates at any speed (between two products using the software). USR tests revealed speeds 2400 to 4800 bits per second faster than with previous software.

Formal approval of the new version of V.34 was in process at presstime.

"The ITU [standards committee] will approve a speed of 33.6 Kbps as an enhancement to V.34, as opposed to creating a new standard," said USRs' Dale Walsh, vice president of advanced development and a member of the committee that developed V.34 and the new additions to the V.34 standard. "We expect the new software we've developed will be very similar to the final standard — if there are any changes to the standard, we'll be able to implement those via software download."

WinZip Into '95'

WinZip, that nifty task-reducing tool for handling ZIP, TAR, Unix compress and other file compression formats, hit the boards recently as version 6.0. The big news: It comes with versions for Windows 3.1 and Windows 95.

"While legacy Windows 3.1 applications still run under Windows 95, users will really want products that take full advantage of the new Windows facilities," said developer Nico Mak. "The release of WinZip does just that, with support for long file names and full integration with the new Windows Explorer."

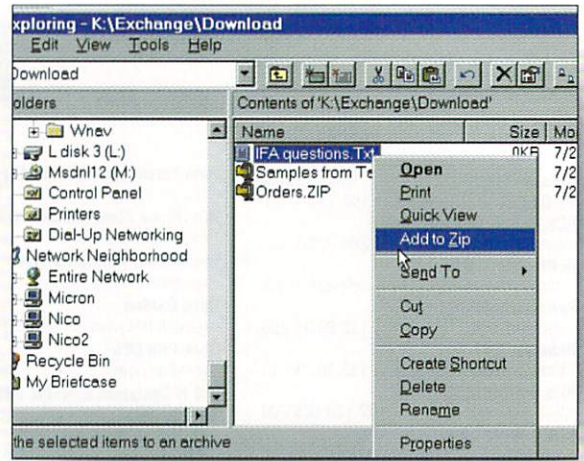
If you've never used it, WinZip offers a clean interface for you to point and click your way around compressing and decompressing files. Got a batch of files too big for a floppy? Click and drag them from File Manager and watch as they're squeezed into one small file.

Key features in version 6 include:

- Ability to Zip and unZip files without leaving the Explorer.
- Built-in support for file formats TAR, gzip, and Unix compress without requiring external programs.
- Built-in ZIP and UNZIP (PKZIP and PKUNZIP are not required).
- Optional support for ARJ, ARC, and LZH files.
- Optional virus scanning support.

Evaluation copies of WinZip are available on CompuServe (GO WINZIP), at ftp.winzip.com as winzip95.exe, and from the winzip home page at <http://www.winzip.com/winzip>.

To order direct contact Nico Mak Computing at 800.242.4775 and have



your CC ready. Registered users get a free upgrade while newcomers pay \$29 for the full version.

Our advice: Get it.

Back to School at BSI

Galacticomm, Inc. and BSI Technologies, Inc. have teamed up to offer their teaching services in the classroom or on site to users of Galacticomm's Worldgroup client/server software.

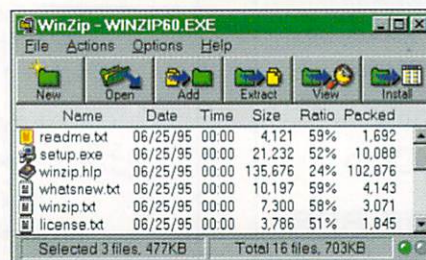
According to Galacticomm, the classes cover everything an organization needs to develop and run an interactive online service that can be reached through modems, LAN, Internet, X.25, and ISDN networks.

BSI is a value-added reseller for Galacticomm and other software companies.

"Our customers who have attended these sessions have been very enthusiastic about the curriculum and the tremendous amount of hands-on knowledge they gained in a short period of time," said Ken Royer, director of Galacticomm Network and Integration Services (NIS).

"The classes give the student the skills necessary to take back to the office and use to fine tune and maintain his system," said BSI President and CEO Michael Julson. "Our two companies together can provide the premier training that new system administrators are seeking — to a much wider audience."

Classes are held monthly at BSI's corporate offices in Fort Lauderdale (FL). Four courses available include Introductory, Intermediate, Advanced



and Internet Connectivity.

For more information about the training sessions, contact Galacticomm's NIS Department at 305.583.5990, or email nisd@gcomm.com. A demo BBS is available at 305.583.7808.

The Greening Web

Green Market and the non-profit BBS EcoNet have opened an online marketplace of sorts for anyone with a Web browser interested in "sustainable living."

Called "Green Market," the shop will allow progressive and ecologically-conscious companies to provide information and products to earthwise consumers.

Proprietors of the electronic storefront say visitors can expect to save money, since the Market's overhead is so much less than that of a traditional store.

And Green Market president Mary Lambert said consumers will be able to shop smartly, finding out as much as they want about product content and manufacturing, waste reduction,



and energy efficiency.

"We are bringing green products into peoples homes in a totally new way, highlighting the advantages we know ecologically sensitive companies have," said Lambert.

As for companies, Green Market says it offers them full Internet support regardless of how computer- or network-savvy they may be. Service includes site design, construction and promotion, and full Internet service and technical support.

Green Market debuted in July with 10 vendors, including American Formulating Manufacturing, Bayview Technology, Dancing Tree Recycled Paper and Printing, Eco Expo, Energy Efficient Environments, Globalcon, Island Press, The Green Culture, Unity '95, and Visanomics.

Get to Green Market at
<http://www.greenmarket.com/GreenMarket>.

Record Orders for QmodemPro

So you thought QmodemPro was popular before... At the rate orders were pouring in last July and August, following the announcement of the Windows 95 version, it had already been

CONTINUED ON PAGE 74

Online Lexicon

ASCII — American Standard Code for Information Exchange. ASCII values are assigned by individual characters for every number, letter and symbol on a screen when logged into a BBS, for instance. Not much in the way of graphics here.

Baud — Frequently this is used to refer to Bits Per Second (BPS), as in "My modem can send at 28,800 BPS." In truth, Baud is how swiftly a modem can change its tone to indicate a bit.

Beta — When a software product is "in beta," it is being tested by a few (or many) to find bugs (problems and shortfalls) in the programming. Most BBS software is run through extensive beta testing before release. Sometimes this can take months or longer.

Capture — When you're on a BBS and see something you want to save on your own computer (not a file), you can capture it to a file in different ways, depending on the BBS.

Chatting — A popular method of communication on BBSs. The idea is to type in real-time (no delay) to another person or many others who are on the BBS with you.

Download (Upload) — OK, these are pretty self-explanatory. When you're downloading, your computer is receiving information from a BBS. When you're uploading, your computer is sending. Simple.

Door — Think of it as just that — a doorway to another area in a BBS, often some kind of game you can play while on the BBS.

Fidonet — This is an international "network" of BBSs. Fidonet news is exchanged among the BBSs so local BBS callers can read messages from and communicate with people all over the world.

Flame — If it burns, it's probably a flame. These are messages we all get now and then that are angry in nature and tend toward putting us in our place. Often, though, they're just nuisance not to be taken too seriously (unless you deserve it).

Kill — Well, in the BBS world it just means to delete something: a file or message.

Megabyte — A megabyte, or meg, is 1,048,576 bytes, but usually referred to as a million bytes for simplicity.

Page — When you want to talk to the "sysop" (the person known as the system operator) of a BBS, you can page him or her and if they're in front of the BBS, a sound will alert them to you. You can usually expect a reply. No reply? Look around on the Main Menu of the BBS for something that refers to "Commenting to Sysop" and send a note that way. Try going easy on the paging, as sysops are always getting them.

Prompt — When you're on a BBS and a command appears on the screen telling you to "Enter Password," for instance, that's a prompt.

Shareware — A mainstay of BBSing. Shareware is software that's released by the author for you to use free of charge. BUT, if you like it and/or use it beyond the period of time stated in the program, pay the author's fee. It's usually pretty modest and gets you free upgrades down the road. Plus, you'll be helping someone continue making software that ultimately makes your life easier, or a little more fun. See the beauty in it? Now how about shareware cars?

dubbed by Mustang Software as its most successful new product launch.

An obviously enthusiastic Jim Harrer, company president, said, "We expect QmodemPro sales to set record levels as it becomes the industry's premier software package."

To help that become reality, Mustang has signed 10 national resellers including Egghead Software, Best Buy, Babbages, Software, Etc., CompUSA, Computer City, Fry's and Electronics Boutique.

For more information contact Mustang Software at 805.873.2500.

EFF Goes West

The Electronic Frontier Foundation (EFF) has moved house across country and elected new leadership to its board of directors.

Formerly based in Washington, D.C., EFF, a respected non-profit organization devoted to promoting civil rights and responsibilities in cyberspace, has set up shop in the San Francisco area under the leadership of Esther Dyson (chairman) and John Perry Barlow (vice chairman), an EFF co-founder.

Moving with the organization to California are Mike Godwin, staff counsel, online services manager Stanton McCandlish, and systems and network administrator Dan Brown.

Shari Steele (*BBS Magazine's* Netlaw writer) will stay in Washington while maintaining ties with EFF.

The Foundation can still be reached at eff@eff.org.

Subscribe Today

Call Toll-Free

1-800-822-0437

and charge your subscription to Visa or MasterCard.

new versions of the player since its debut in April, and I have every faith that the reproduction will improve over time. (But hey guys, how about a player designed for modems faster than 14.4?)

In the meantime, the best reason to download the player remains the news. I personally am a National Public Radio (NPR) fanatic, and was thrilled to discover that I can now listen to the soothing tones of Morning Edition's Bob Edwards or those wacky guys at All Things Considered anytime after the broadcast. Both shows (plus Weekend Edition) are archived through early April. (For those unfamiliar with NPR, the noted shows are news programs produced daily.)

In addition, a listing of the show's features, including every news break, are conveniently linked for quick reference. If you prefer, there are also fast forward, rewind and pause buttons on the actual player's control panel. The mouse also can be used to quickly jump to any point in a broadcast.

Another great site for news junkies is the ABC News Radio Network. This site, also based in the U.S., offers the same three minute newscast that goes out on the company's radio network each hour. The downside: ABC tends to emphasize U.S. news due (presumably) to its limited time frame. (Those seeking news from throughout the world are better off visiting NPR.)

I imagine at least a few readers out there are already thinking of better applications for the RealAudio player... at least, I hope you are. And just in case the urge is striking you, here's some info that might be of use: RealAudio offers several ways for you to add RealAudio to your World Wide Web site. Those of you fortunate enough to have a UNIX or Windows NT server in house can become a RealAudio server. (RealAudio recommends at least a T1 circuit to perform this chore, however.)

The rest of us can take advantage of "Our Site, Your Sound," which allows the little people to place content directly on the RealAudio server. At the bargain basement level, you can link Web pages and audio files to the company's

home page. Those without a Web site can check out RealAudio's Radio Dial program.

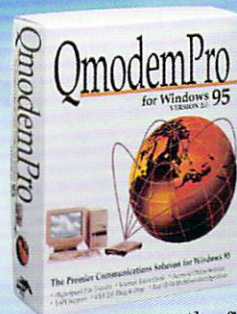
A low-end (maximum 10 users) RealAudio server carries a start-up cost of (U.S.) \$1,495 and an annual cost of \$995. The high-end server, which can handle 100 simultaneous users, will set you back (U.S.) \$9,995 at start-up and \$3,495 annually for support. The company does offer packages for up to 1,000 users.

For up-to-the minute information on any of these programs, check out the RealAudio home page on the Web or send email to: ServerB@RealAudio.Com (server requests only) or ContentB@RealAudio.Com (Our site, Your Sound requests only).

ADVERTISER'S INDEX

APDI	21
BBS TECHNOLOGIES	14
CDS	69
CHEERSOFT	62
CLARK DEV. CO., INC.	22-25, OBC
COMPUBASE	35
DIGITAL CONSULTING SERVICES	29
DIGITAL DYNAMICS	15
DURAND COMMUNICATIONS	IBC
EXCALIBUR	2
FINE TIME COMMUNICATIONS	37
GALACTICOMM, INC.	IFC, 1
GARLIQUE GRAPHICS	63
GILES ROAD PRESS	32
INFOLINK	49
IN THE FEET OF THE NIGHT	49
JOHN WILEY & SONS	48
LIVEWIRE	65
MACINTOSH ONLINE	47
MEDIA HOUSE	45
MUSTANG SOFTWARE INC.	38, 39, 55
NEXT GENERATION	64
NITE LOG BBS	48
ON-LINE SERVICES	48
ONLINE TECHNOLOGIES	68
ORIENTAL EXPRESS	62
PICS ONLINE	65
PIER EXCHANGE	9
PLANET SYSTEMS	5
PROFIT OPPORTUNITIES	65
QMODEMPRO	75
RUSTY-N-EDIE'S BBS	37, 42
SUBURBAN SOFTWARE	62
TESSIER TECHNOLOGIES	33
TRADERS CONNECTION	64
UNCLE HANK'S NEWSLETTER	47
USA COMMUNICATIONS	69
WORLDCLUB BBS	54

Don't Start Your Modem Without The 32-bit Power Of QmodemPro For Windows 95



You're a speed freak, right? You bought the Pentium and 28.8 modem, and you just upgraded to Windows® 95 to take full advantage of your computer's 32-bit architecture. So why are you using old 16-bit communication software that chokes the performance of Windows 95? Get on-line fast with the 32-bit POWER in QmodemPro for Windows 95 v2. It's

the first communication software that delivers all the features and performance you need to get the most from the new 32-bit Windows platform. And since you demand performance, you'll like the fact that QmodemPro's communication and Internet capabilities go way beyond the standard terminal software included with Windows 95. So whether you're connected to the office, company mainframe or BBS for data/file transfer, you'll get the powerful, 32-bit technology in QmodemPro to satisfy your "need for speed."

800-208-0616

Available at Software Etc., Babbages, Computer City, CompUSA, Electronics Boutique, Egghead and other software outlets for \$129 or less. Registered Qmodem/QmodemPro customers call for upgrade pricing.

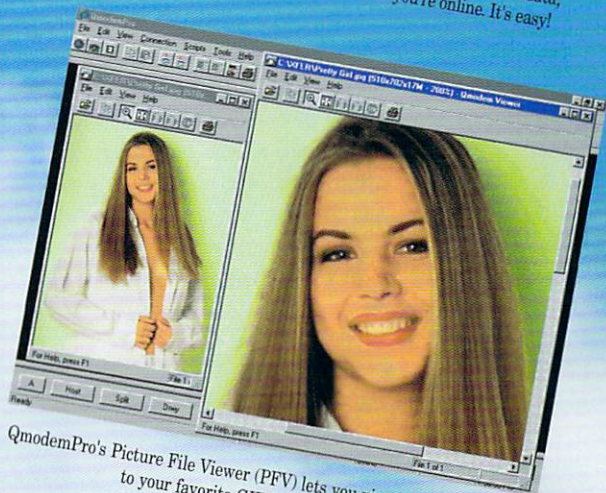


Connecting The World

Mustang Software, Inc. • 6200 Lake Ming Road • Bakersfield, CA 93306
Voice 805-873-2500 • Fax 805-873-2599 • BBS 805-873-2400
Internet <http://www.mustang.com>



Use your favorite Windows icons to customize the dialing directory for data, voice or Telnet session. Double click and in seconds you're online. It's easy!



QmodemPro's Picture File Viewer (PFV) lets you view and zoom in close to your favorite GIF, BMP or JPEG file.

Exciting New Features Include :

- A Phone Book that uses Explorer style menus and buttons, with display options including Large Icon, Small Icon, List and Detail styles.
- OLE 2.0 support so you can drag & drop files, phone book entries and text to and from other Windows applications quickly and easily.
- 35 Terminal emulations, including ANSI, VT100 and IBM 3270 to get you on-line quickly while the programmable keyboard will satisfy the needs of any system administrator.
- A programmable tool bar with up to 50 different program function icons.
- A graphical file viewer that lets you display files in GIF, BMP and JPEG formats with zoom, even while downloading.
- Fully multi-threaded protocols that keep going even when your PC is very busy.
- Transfer files with 10 high speed protocols, including Zmodem and CompuServe B+.
- TAPI support for sharing communications devices between multiple applications.
- MAPI support for transferring text, images and files to major mail applications including Exchange, Microsoft Mail, and cc:Mail.
- Telnet support with MD5* secure passwords for Internet access to your favorite sites.

* RSA Data Security, Inc. MD5 Message-Digest Algorithm
© 1995 Mustang Software, Inc. All names are trademarks of their respective companies.

It's Real, But is it Audio?

The first law of marketing is simple: Ya gotta have a gimmick. Sometimes the gimmick is the very thing/service you are trying to sell, other times its simply a diversion to get the intended audience to pay attention to the real point of interest. RealAudio's player is a little of both.

RealAudio is the name of both the company and its software product, an audio player that can be used to play sound clips "live" via modem. The player itself can be downloaded for free on the company's World Wide Web site (<http://www.RealAudio.com/>). RealAudio isn't entirely philanthropic, however. The company charges a pretty penny to help individuals — primarily corporations — develop audio clips that can be played live online.

Early adopters include a pair of U.S. radio networks, National Public Radio and ABC Radio News Network. Both companies offer daily news broadcasts that can be played in real time with the RealAudio player. Of course, herein lies the diversion: In theory, consumers will like what they hear, and seek out the real McCoy — the radio. (In other words, it's the aforementioned diversion.)

Even marketing tools have a place in society, however, and RealAudio is no exception. This nifty little gimmick already has been used for some pretty serious applications, including to give real-time updates on the bombing of a building in Oklahoma City earlier this year. (In fact, you can still listen to the building being imploded by city officials approximately one month after the bombing.)

So what, you may be asking by now, does the thing do? Well, it plays sound clips of varying lengths sent to your computer through the Net (ergo, you must have a sound card to use this service). The only cost involved with the service is the time online (Internet only, at this point) to download the player and play audio clips (which cannot be played off-line).

I visited about 20 RealAudio sites (all of which are linked on

the company's home page) and determined that, at present, there are basically two applications for RealAudio: music (generally concert clips) and news (usually someone's latest broadcast). There was one rather bland exception, the Santa Monica Bank ("The first Web site narrated in RealAudio!"), which features a two-minute explanation of how cool the bank's 20-year old advertising campaign is, and why people love it so. I personally found the accompanying picture (an example of the print campaign) a lot more stimulating. I do give them mucho points for trying, however.



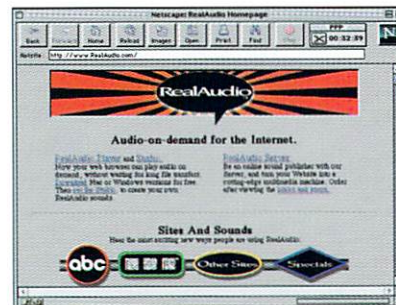
I also found the music sites rather unimpressive, mostly because I've been spoiled by CD sound. I've had AM radios with better sound quality (and no, it's not my computer — we have stereo speakers). Anyway, the sites I visited included "NTT Radio" (in Japan) and a site dubbed "Korean Top 10," which I assume refers to the Korean pop charts. (Sorry, I flunked Korean 101 in college.) The NTT Radio site featured clips from a live Earth Day concert held earlier this year. (No, I didn't pass Japanese, either. The site has an English language option.)

Both sites featured tinny music that played extremely low, even with the volume turned all the way to 11. Part of the problem with the NTT site could be the recording itself — live concert feeds are not known for their high quality reproduction. However, the Korean Top 10 site featured what

appeared to be singles (at least the pictures looked like CD covers), and therefore should have been of the utmost quality. Both came out sounding garbled and ama-

teurish, and certainly not worth the hours I would have spent online listening to everything the two sites had to offer. (Memo to NTT Radio: Loved the Earth, Wind & Fire graphic, though.)

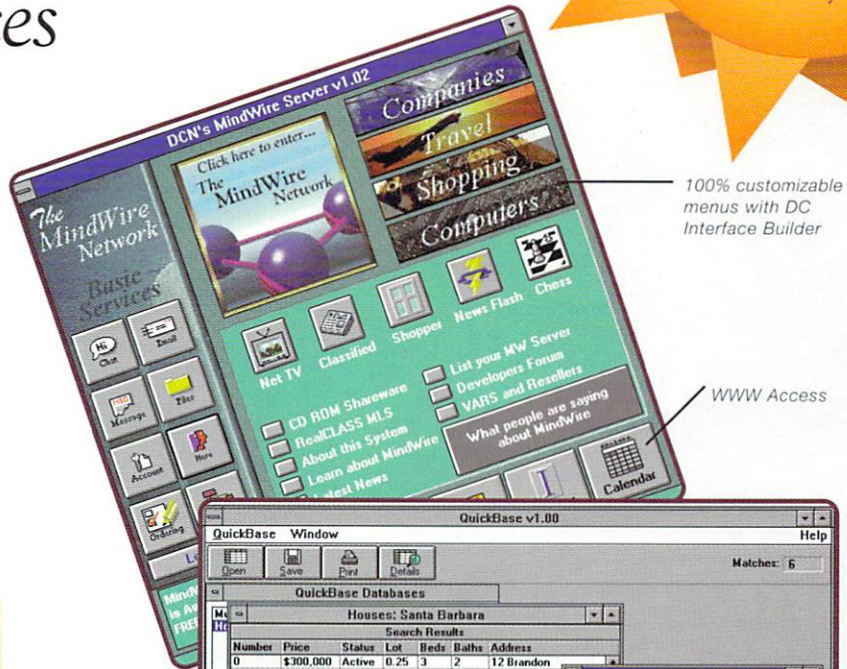
The RealAudio folks have been consistently introducing



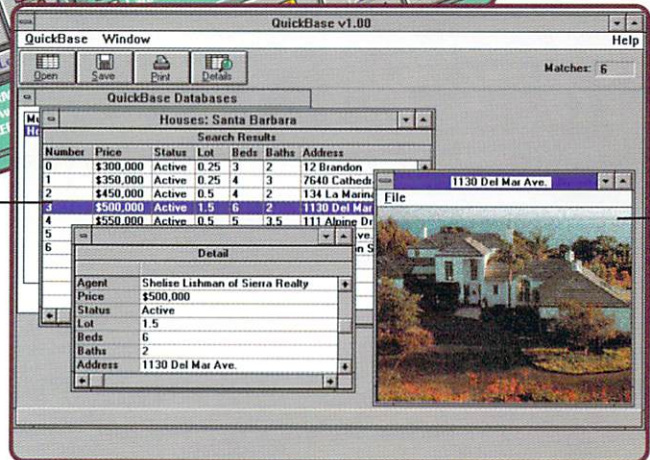
The ULTIMATE WINDOWS PLATFORM for Online Services

MINDWIRE
4-line system
Only \$295
Includes Internet Connectivity

MINDWIRE™ and MINDWIRENT™ harnesses the power of the Internet and client/server technology taking the traditional Bulletin Board System to the next level. Now, you can create a dynamic, multimedia online service that rivals the large commercial systems. MINDWIRE is the most powerful communications platform available today.



100% customizable menus with DC Interface Builder



WWW Access

MINDWIRE Accessories

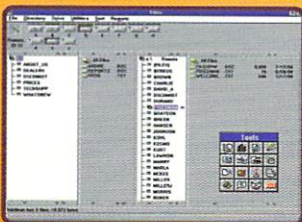
Supports any ODBC-compliant database



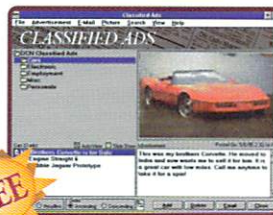
Interactive Games
Chess



Custom Menus
DC Interface Builder



Remote Sysop Utility
FILEX



Business Applications
Classified Ads

Develop your own applications with our FREE Developers Guide!



Business Applications
Window Shopper

24-bit color images

No other platform offers this much power and scalability!

- All Windows Client/Server Solution
- Scalable Database Solutions
- Modem, Network & Internet Connectivity
- Open Architecture for Third Party Development using OLE Objects
- FREE client software

COMPETITIVE
UPGRADE OFFER
SAVE **40%**
up to
Call Today!



Tel> (805) 961.8700 MindWire Demo> (805) 961.8702
E-Mail> sales@durand.com Web> http://www.durand.com

PCBoard® Bulletin Board Software Gives You the World Without Breaking the Bank.

NEW FOR OS/2

The concept is simple, absolutely no other Bulletin Board Software gives you as much as PCBoard. And PCBoard costs a fraction of what you would pay for a comparable package elsewhere. It is no wonder PCBoard is the world's leading Bulletin Board Software winning such awards as the prestigious PC Magazine Editor's Choice Award and the Hayes/Dvorak Award for Outstanding Telecommunications Technology for our programming language.

Try PCBoard for yourself, with our compliments, and find out why PCBoard Bulletin Board Software gives you the world without breaking the bank and why the competition is left holding the bag.

PCBoard® for DOS

PCBoard® for OS/2

CALL NOW FOR YOUR FREE DEMO

1.800.356.1686

PCBoard w/ PPLC ... everything you need right out of the box!
standard features include:

- *Internet/UUCP Gateway*
- *Fido Mailer & Tosser*
- *Internal QWK Mail*
- *Credit Accounting*
- *Programming Language*
- *dBASE III File Access*
- *Automated File Maintenance*
- *Multiple Language Support*
- *Optimized for DOS, WIN, OS/2*
- *Intelligent Multiport Support*
- *OS/2 Comm Driver Support*
- *PAD (X.25) Support*
- *Local & LAN Logins*
- *PCBMail for Windows*
- *FREE D/L Upgrades for a Year*
- *FREE Voice Technical Support for a Full Year and BBS Technical Support for life!*



Clark Development Company, Inc.

3950 South 700 East, Suite 303, Murray, Utah 84107-2173
Tel 801.261.1686 Fax 801.261-8987 BBS 801.261.8976
email: sales@clarkdev.com - tech.support@clarkdev.com