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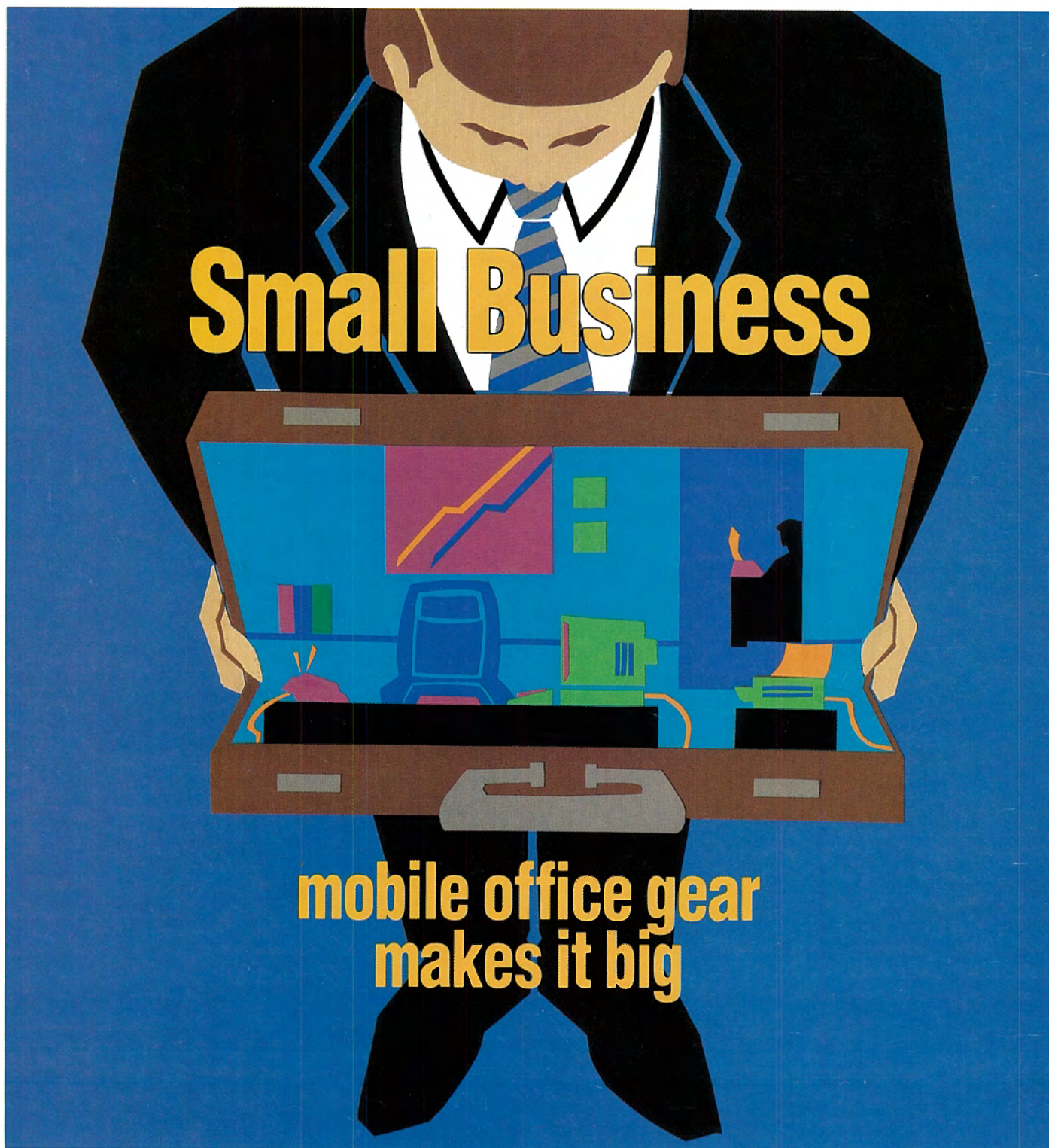
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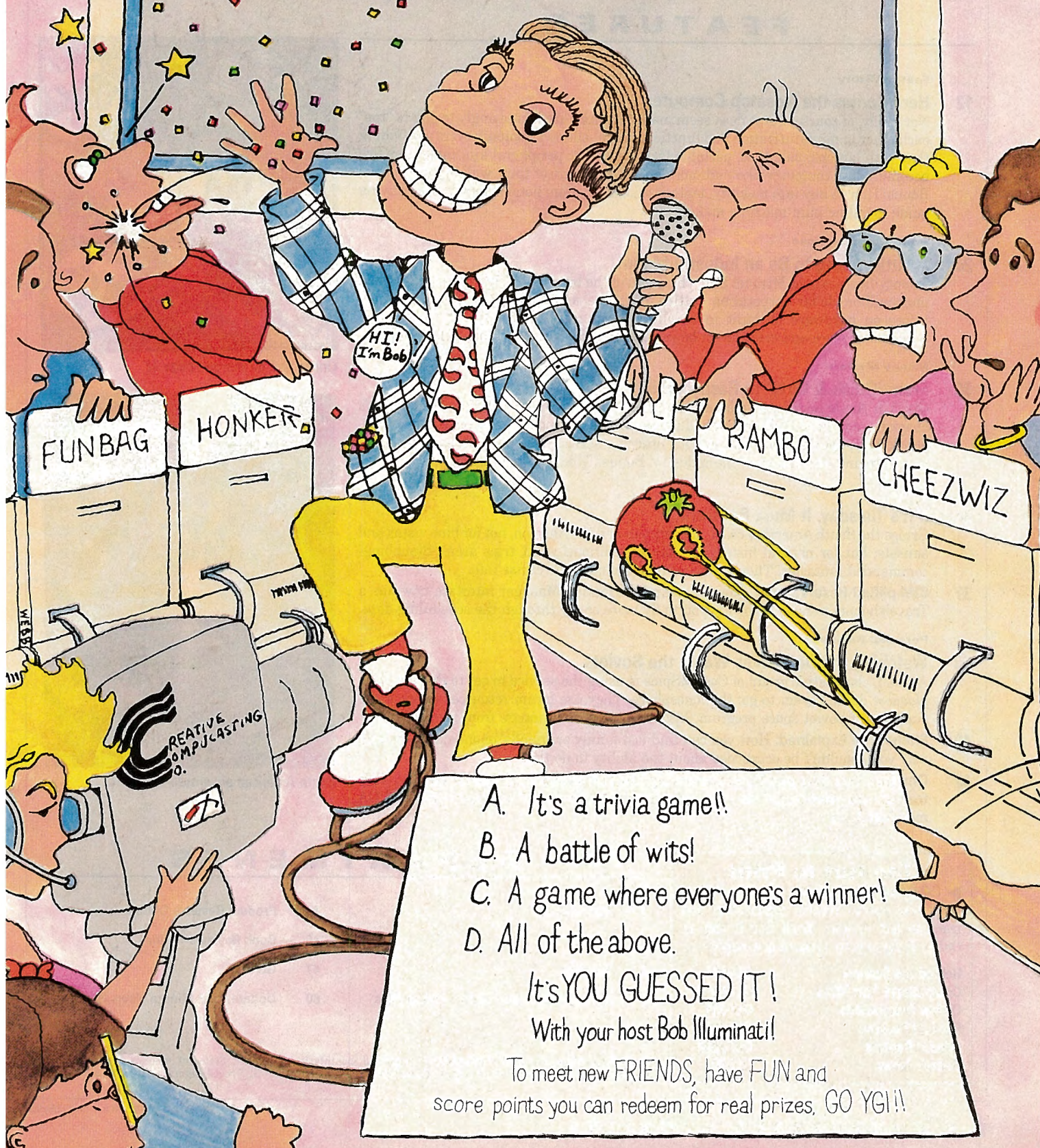
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score points you can redeem for real prizes, GO YGI!!

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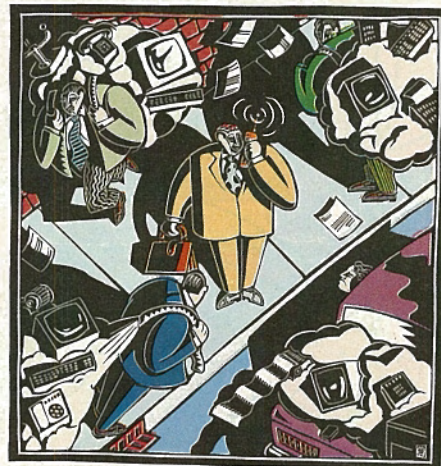
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Too Hot to Print

► Catch computer industry news as it happens, read special reports, commentary and more product reviews. You'll find it only in *Online Today*, a daily updated newspaper.

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Dear Reader

One of the sizzling trends in computing these days is miniaturization and portability—the so-called “mobile office” phenomenon. In the span of a decade or so, computers and peripherals have downsized dramatically and gained exponentially in capability; a lapful of today's computing power would have crushed you to death in the 1970s.

There's little doubt mobile technology is a boon, particularly to frequent travelers, and that it's here to stay. But keeping up with the latest, figuring out what equipment to buy and successfully linking the various portable office components isn't always easy amid the onrush of new—and ever more diminutive—technology. This month, *CM* offers a “portability package” to demonstrate how a mix of online services can serve as a pivotal point for your office-on-the-go and help ease entry into the Cellular Age (“The Incredible Shrinking Future,” p. 12).

Whether it's a laptop, a palmtop, or a wrist-watch computer; a portable fax, a cellular modem or a notebook-sized printer, you'll find consumer information, expert advice, software in the forum libraries and always-reliable CompuServe data network connections to help you put it all together and keep it running efficiently.

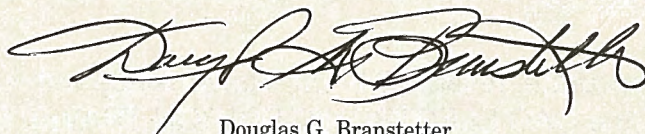
In addition to many practical guides and helpful hints, you'll find a consumer guide (p. 19) listing portable computer/peripheral manufacturers that provide some form of online customer support. On page 22 you'll find listings of forum program files for laptop and palmtop computers.

Finally, all you faithful Tandy Model 100 users out there should be sure not to miss our salute to the granddaddy of all laptops on page 16. Because many M-100 users bought their machines to communicate while traveling, CompuServe has played an important part in the machine's popularity and ongoing support, and continues to do so today.

* * *

If you haven't already done so, it's not too late to enter *CompuServe Magazine's* big Member Essay contest, an outsized version of the regular monthly contest in the magazine's “Monitor” section. Tell us in 200-400 words how the CompuServe Information Service has aided you in some way, changed your life, helped you to work more efficiently ... you get the idea. We'll choose a dozen or so of the best entries for publication, and winners will get \$100 of free connect time and have their essays published in the December *CM* cover story.

You'll have to hurry—deadline for entries is August 19. For more details, see Essay Contest box on the bottom of page 8. For complete contest rules, enter GO OLT-800 on the Information Service.



Douglas G. Branstetter
Editor

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Letters

Atari Coverage Lacking

When I received your June 1991 issue with the article on popular uploads ("Favorite Files Mania," p. 10) I immediately began leafing through the listings, looking for uploads for my system. I found a section of MS-DOS files, a section of Macintosh files, a section of Apple II files (how quaint!), a section of Amiga files, and then—no Atari section! Atari files for all systems were lumped in a list along with files for the Coleco Adam and the Tandy Color Computers.

We Atari users pay your fees just like everybody else, and our systems are as up-to-date and relevant as anybody's (Apple II? Come off it!). Some of us are still smarting from the article on portable computers a few months back that failed to mention the premier portable PC-compatible—the Atari Portfolio. Now comes this snub. How about a little balanced coverage for a change?

Ira Adams
Hattiesburg, Miss.

I have been a CompuServe member for seven years, and during that time I have enjoyed the various issues of *Online Today* and *CompuServe Magazine*. It is truly one of the benefits of being a CompuServe member.

Of all the issues I've received so far, the June 1991 issue stands out as one of the finest. I've long felt that you should devote more attention to the files that are available for downloading. I'm pleased to see that you have finally done so in "Favorite Files Mania." However, I must admit that I was surprised that there wasn't a focus on downloads available for the Atari ST. While you did list a dozen files under the "Other" category, I would have thought that any computer platform deserving of its own "file finder" also would have deserved its own page in your magazine. Of the computer platforms that do have a file finder available, only the ST was omitted from your focus.

I hope you will correct this oversight in a future issue.

Gordon R. Meyer
Camp Hill, Pa.

Book Review Rebuttal

Richard Danca made an embarrassing number of errors in his online book review (June 1991) of my laptop guide, *The Complete Laptop Computer Guide*.

For example, he says: "Chapter 11 is nearly 30 pages of anecdotal information surrounding a few tips for using electronic mail services, including CompuServe." Most of the chapter explains the nuts and bolts of CompuServe and MCI Mail—basic commands and less-known ones such as those for sending faxes and telexes. Did

Danca actually confuse computer commands with anecdotal information?

I am also baffled why Danca could say my e-mail chapter isn't relevant to laptops. A 1989 survey of 1,000 laptop owners found that 45 percent used their machines for e-mail and other forms of communication.

Further, Danca falsely writes that *The Complete Laptop Computer Guide* includes "a whole chapter of modem commands." I indeed explain the helpful AT commands, but I also devote thousands of words to issues such as how to connect modems physically to hotel telephone lines.

David Rothman, Author
The Complete Laptop Computer Guide
Belle View, Va.

Novices & Nerds

In the June 1991 "Letters," Thomas Burdsal asks for articles for the novice user of CompuServe's online services ("Novice Needs," p. 5). His idea has merit. CompuServe has a tradition of bringing people from all levels of technical expertise together to exchange ideas, and more articles geared to less-experienced users would certainly be in line with this principle. Why then does he feel the need to insult the rest of us, calling us "nerds," just because we have a higher level of understanding than he does?

CompuServe is not a secret society of nerds trying to keep novices out of forums. It is a community where free thought, expression, and mutual respect prevail. If you need help, or you don't understand, ask. There are scores of people waiting to help. Get on a forum (The Practice Forum is a good place to start), meet new people, play some games, send mail, or hit the CB Simulator.

That's where the action is. I'm not sure what Mr. Burdsal has been doing for two years, but if he still doesn't "get it," he should buy the CompuServe Information Manager. It is well worth the price of admission. He should not, however, assume we are all "nerds." We come from all walks of life and bring our unique points of view. Words like "nerd" or "geek" stifle communication. The only label to be used, and with pride, is "a fellow member of the CompuServe community."

Daniel R. Evers
Columbus, Ohio

MONITOR

Dear Mr. Winnebago

Recreational vehicle and camper owners will want to drop in to Section 10, "Camp/Hike/Walk/RV," of the Great Outdoors Forum (GO OUTDOORS). Brian Robertson, contributing editor for *Trailer Life* and *Motorhome* magazines, is conducting what he refers to as a "Dear Abby" service for forum members. "If you have questions about purchase, rental, service, repair, maintenance or travel that relates to RVs, I'll be glad to give it a shot and send an answer your way," he says.

For those not quite ready to pose that initial question, Library 2, "Camp/RV/Scouting," offers introductory material. DEFIN1.TXT and DEFIN2.TXT, for example, provide a compendium of humorous definitions of common terms. Load leveler bars, for instance, are "add-on, towing devices that redistribute every bounce of a trailer directly to your teeth." A battery is "a heavy, electrical storage device that will power the average RV for a full 15 minutes—as long as one does not need heat or air conditioning!"

A more serious and detailed guide is RVING.TRV, which surveys the hobby along with discussing costs, amenities and vacation spots.

Questions to Robertson should be left in the forum's Section 10 addressed to User ID number 72717,3641.

MONITOR

Contributors:
Mike Pietruk, Cathryn
Conroy, Gary Plummer
Lindsay Van Gelder

PAUL MONTGOMERY

Little House on the Investors' Forum

If you haven't been able to locate your dream house, perhaps you ought to consider hiring an architect and contractor, and constructing one of your own. Before moving that first shovel of dirt, however, be sure to stop by Library 6, "Real Estate," of the Investors' Forum (GO INV-FORUM) and read the file BUILD.THD.

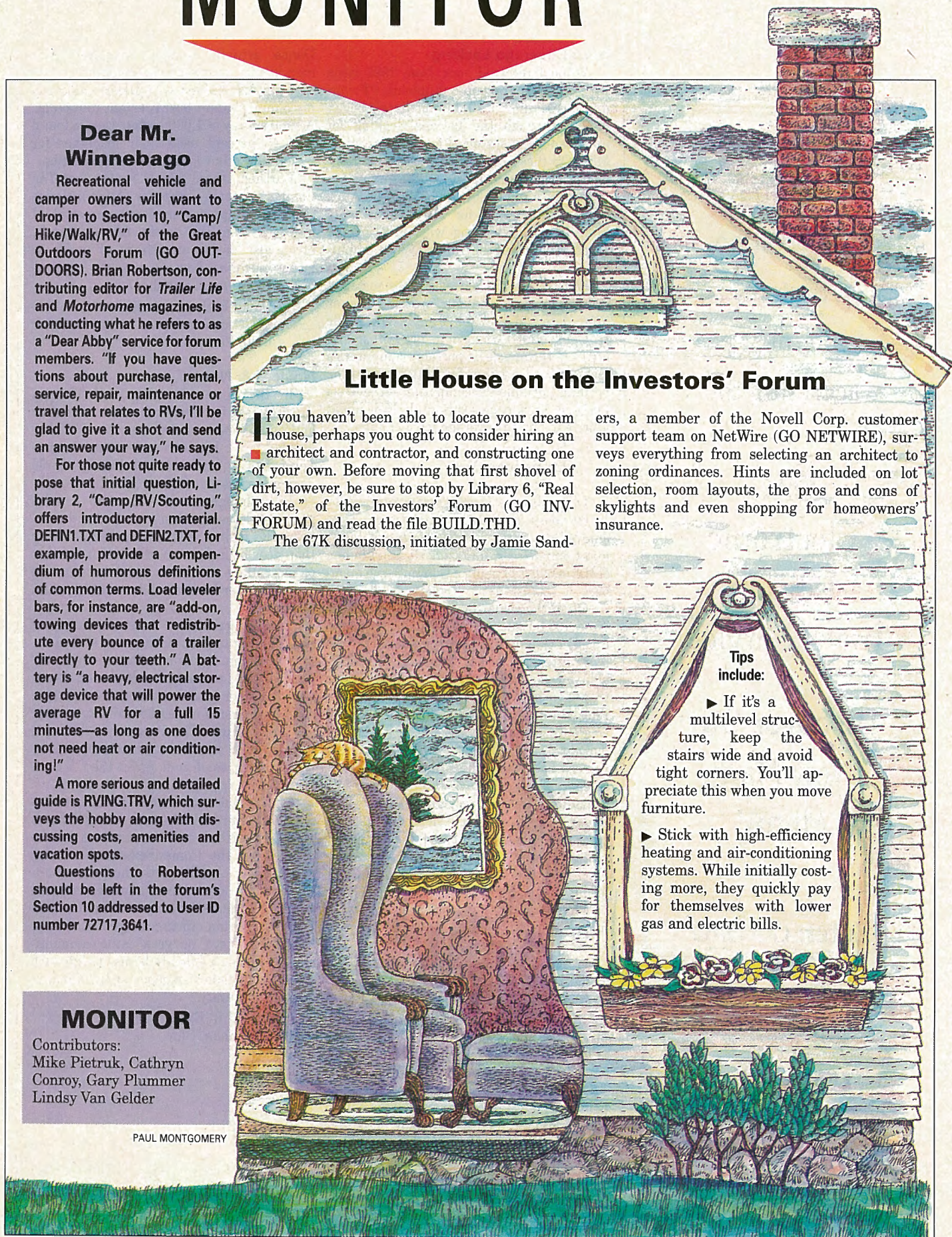
The 67K discussion, initiated by Jamie Sand-

ers, a member of the Novell Corp. customer support team on NetWire (GO NETWIRE), surveys everything from selecting an architect to zoning ordinances. Hints are included on lot selection, room layouts, the pros and cons of skylights and even shopping for homeowners' insurance.

Tips include:

► If it's a multilevel structure, keep the stairs wide and avoid tight corners. You'll appreciate this when you move furniture.

► Stick with high-efficiency heating and air-conditioning systems. While initially costing more, they quickly pay for themselves with lower gas and electric bills.



Even Manuals Aren't Manual Anymore

We use sophisticated software packages for word processing, database management and telecommunications. Yet, when we have a question about using software we have to spend wasted minutes thumbing through a manual. Wouldn't it be nice to use the software's search capabilities to get help?

Owners of WordPerfect, the popular package supported by the WordPerfect Support Group in two forums (GO WPSGA and GO WPSGB), now have this power with the introduction of an electronic text edition of the version 5.1 manual.

Developed by Larson*Davis Information Systems under the name Infoque, the reference man-

ual is compatible with networks, WordPerfect shell and a mouse. It allows the user to search by word or phrase, displays the full text and permits paging back and forth from a point of reference.

"We anticipate that electronic manuals for software products will eventually become the standard for the industry," says Dan Johnson, president of Larson*Davis.

Available on 3.5- and 5.25-inch IBM compatible diskettes, the electronic edition is sold for less than \$40 at major retail computer chains. Orders can be placed with the publisher by calling 801/375-8855.

OK, But Try Uploading to an Underwood

After surveying 231 small businesses, including law, real-estate and casualty/property insurance offices, researchers at Ball State University in Muncie, Ind., concluded that the computer has done nothing more than replace the typewriter in many small businesses.

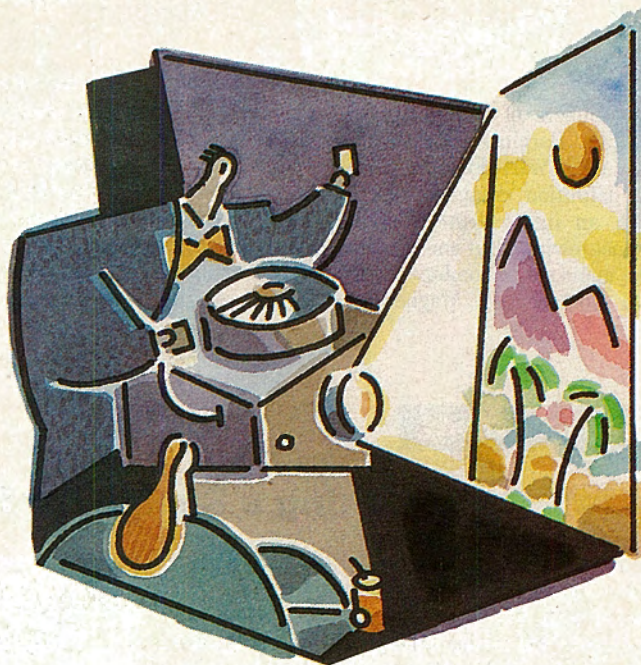
"It has become a sophisticated word processor instead of a multitask machine," says Lee Dye, a Ball State professor of business education and office administration.

Dye adds that many small businesses use their computers for a single, specific function and nothing more.

Nearly 40 percent of employees admitted they needed more training. In most cases, employees taught themselves how to use the machines or learned simple instructions from a vendor. Because of the lack of training, many do not have a good idea of all that a computer can do for a business.

To discuss computer training issues on CompuServe, GO DPTRAIN.

ROBIN JAREUX



What I Did This Summer

Have your summer travels taken you to an interesting or unusual place? Consider sharing your experiences by writing an article for the Travel Forum (GO TRAVSIG). It's easy when following the step-by-step instructions furnished in the Library 0, "General Interest," file WRITER.HLP.

"Even the best guidebooks need at least a year to turn 'experience' into production and distribution," says Richard Piro, author of the file. "The Travel Forum, on the other hand, is the only place I know of where you can immediately share those moments of ecstasy (and agony), allowing the rest of us a jump start into adventure."

Adds Forum Manager Jerry Schneiderman, "It's a lot of fun. Our member-writers get encouragement and constructive feedback. And who better to learn of a destination than from a fellow traveler like yourself!"

Among those who have generously contributed is Katy Penland. Last October, she took a trip to Western Australia and New Zealand, reporting on it in two files NZTRIP.1 and NZTRIP.2 in Library 6, "Oceania." For those able to handle ZIP files, the text has been compressed and packed into NZTRIP.ZIP.

The 'New Dems' Cure: Apply Liberally in '92

The running joke in Washington, D.C., is that the Democrats should just give up and nominate George Bush themselves. When they pair him with a vice presidential nominee with Democratic credentials, they might have a fair chance of making it into the White House in '92.

But don't tell that joke to the New Democrats, an activist group that makes its online home in Section 4, "New Democrats," of the Issues Forum (GO ISSUES).

The Democratic presidential hopefuls being discussed online include former senators Eugene J. McCarthy and George McGovern. Alluding to the possibility of a McCarthy-McGovern debate, McCarthy quipped, "Then maybe people will learn to tell us apart."

"The 1992 race, once thought boring, is starting to resemble a chess match more than a horse race," says Jesse Yoder, the New Democrats section leader. "How good is Dan Quayle at chess?"

The New Democrats have proposed a "multicandidate scenario," which they bill as an alternative to past competitive primaries. Liberal candidates would cooperate with one another instead of competing against each other in the Democratic primaries. Candidates would run only in states or regions where they are likely to do well so that each candidate would then control a block of delegates. At the convention, all the candidates would then unite behind the strongest presidential contender, who would be the nominee of the convention.

To learn more about the ideas and issues of the New Democrats, consult the file AGENDA.S91 in Library 4, "New Democrats," of the Issues Forum.



PAUL FISCH

Apt to Be Noticed

When the space shuttle Atlantis flew its mission in April, one of those on board was Jay Apt, a payload specialist for the Gamma Ray Observatory, whose duties included testing space station construction techniques. Apt is also a sports rocketry enthusiast and a member of CompuServe's ModelNet.

Sysop Doug Pratt went to Cape Canaveral for the Atlantis liftoff. For his eyewitness report, check out the file JAY.TXT in Library 8, "Sport Rocketry" (GO MODELNET). Another file, APT.GIF, shows the design of a commemorative patch made for Apt's flight for the National Association of Rocketry, the organization to which he and many ModelNet members belong. Meanwhile, look for Apt in conferences and messages on the forum.

Windows Opens Up a Lead

Try as it might, IBM Corp. will not succeed in convincing a majority of computer users to make the switch to OS/2 by 1995, predicts Gartner Group, a Stamford, Conn., research firm.

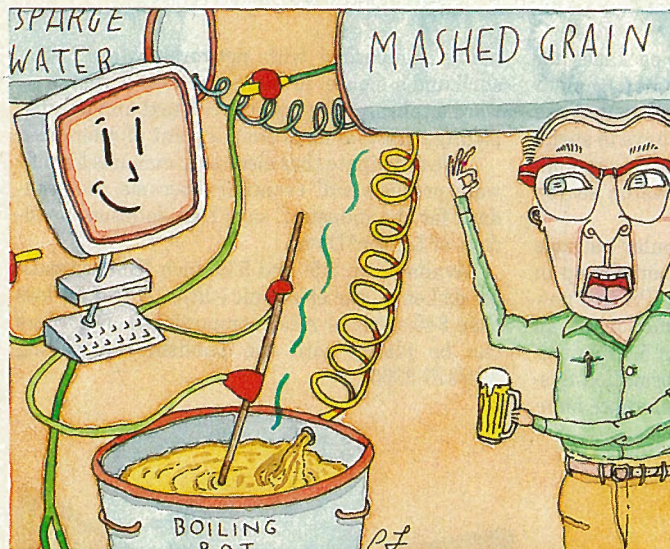
The big operating system winner will be Microsoft Windows, which in four years should command a 41 percent market share of new installations, compared with just 12 percent in 1990.

Here's how they'll stack up according to Gartner Group's predictions:

Operating System	1995 Market Share	1990 Market Share
Microsoft Windows	41%	12%
OS/2	21%	1%
Macintosh	20%	10%
DOS	10%	69%
Unix	6%	3%
All others	2%	5%

Gartner advises companies that use complex applications on PCs to stick with OS/2, while it encourages others to use Windows and follow its evolution to a 32-bit system.

I Love the Smell of Barley in the Morning



PAUL FISCH

Members of Section 14 in the Bacchus Wine Forum (GO WINEFORUM) are by definition computer users with an interest in "General Homebrewing." But one of them has managed to combine these two hobbies: Al Wagner of

Clifton, N.J., uses his Model 100 to help him make beer.

Normally the process of brewing starts by mashing malted barley into a thick porridge and heating and stirring the pot at a precise temperature for hours, then spending an

hour "sparging" (separating out the grains from the liquid it was cooled in). Wagner programmed his Model 100 in BASIC to start the mash, monitor the temperature and control the heater. (For you techies in the audience, he used a proportional, integral, derivative—PID—algorithm.) Before the mash is ready, the computer heats the water in the sparging pot to the proper temperature, opens and closes some valves, and allows the heated sparge water to run through the mashed grain into the boiling pot.

This means that Wagner can load up all the grains and water when he goes to bed and wake up the next morning with his brew ready for the next step in the process. Meanwhile, his laptop also keeps a record of all the mashing conditions for future reference. The cost of all the gadgetry—pumps, pots, valves, electronics—was about \$200. For support and files that run on a Model 100, GO M100SIG.

MEMBER ESSAY

Rewriting a Recipe for Disaster

I have worked for the last 23 years at the oldest maximum security prison in New York State, with the last 10 years attached to the division of industries—the people who bring you license plates. I directly supervise the warehouse and chemical stores building.

As with all bureaucracies, information is usually transmitted from the top down on a "need-to-know" basis. When federal and state laws became concerned with the environment and work safety hazards, even prisons were subject to enforcement regulations.

Our old policies were to label waste as "junk" and dispose of it cheaply and quickly. Thanks to CompuServe's SafetyNet and its libraries, I was able to ask questions and get correct information from experts in the field.

SafetyNet's experts and the forum's information helped me to understand the hazards and aided me in establishing correct procedures and installing safety devices.

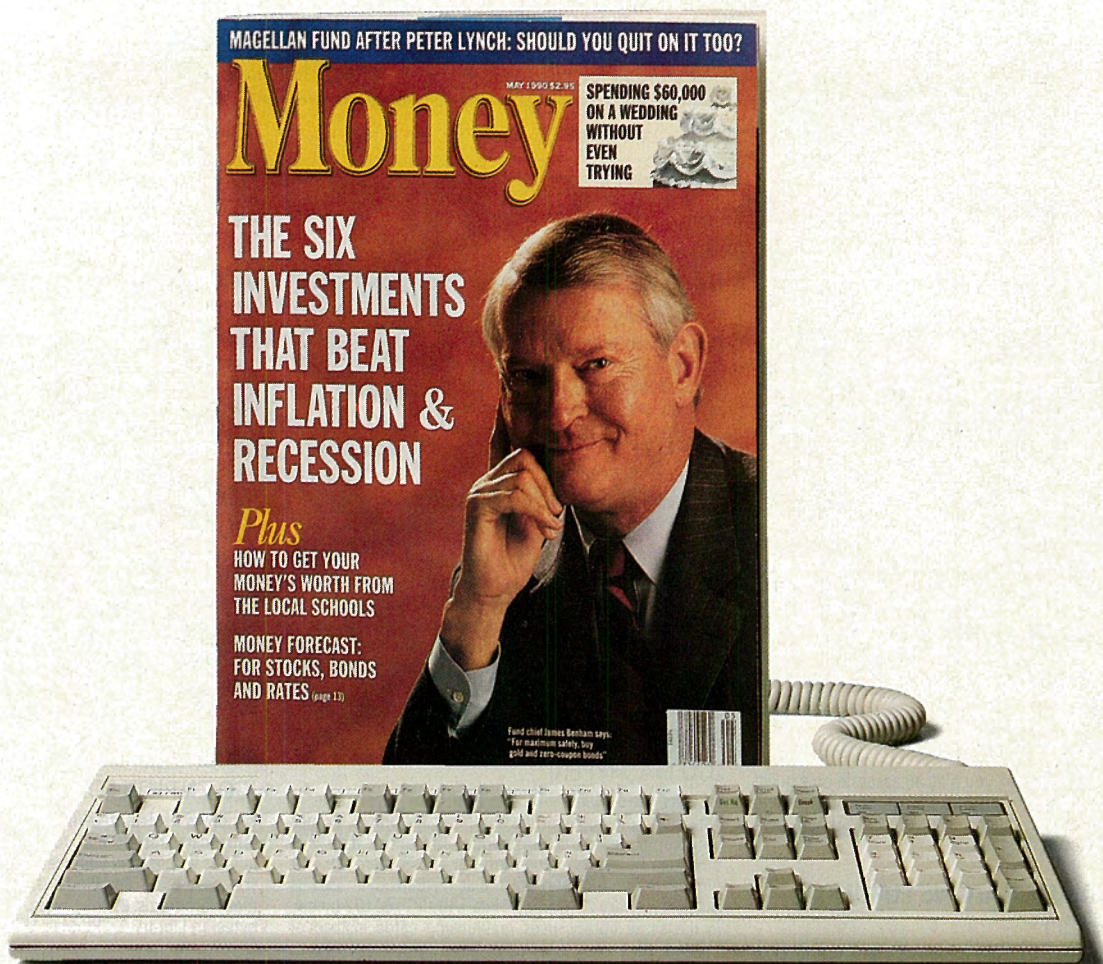
When two potentially dangerous accidents occurred, I knew the correct procedures to contain the problems and had the necessary safety equipment on hand.

Ralph C. Belgard
Port Byron, N.Y.

Hey! Win Big in CM's Essay Contest!

The December *CompuServe Magazine* cover story will feature a super-sized version of Member Essay. Now is the time to make your entry. Tell us in 200–400 words how the CompuServe Information Service has saved the day or changed your life in some way. If your entry is chosen for the December cover feature, you'll win \$100 in connect-time credit, plus publication of your essay, photo and brief bio.

Submit essays via CompuServe Mail to User ID 76004,3302 no later than August 19, 1991. The first 50 entrants (employees or contractors of CompuServe not eligible) will receive a gift. Enter as often as you like, but only one winning essay per person can be selected. Essays submitted on or after Jan. 1, 1991 are automatically included in the competition. For more details and contest rules, GO OLT-800.



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Current Hits

by David Peyton

The libraries in CompuServe's forums are filled with thousands of files. The following are a few of the files uploaded in recent months. For a more up-to-date list, check the weekly "Uploads" columns in *Online Today* (GO OLT-3700).

ADOBE FORUM (GO ADOBE)

Font Viewer—A Macintosh DA for viewing the entire character set of a font in one screen. You also can get information on the character and its font, such as its keystroke (useful for hard-to-remember key combinations), ascent, descent, etc. File FONTVI (15,104 bytes) in Library 3, "Utilities."

AMIGA ARTS FORUM (GO AMIGAARTS)

Submarine Adventure—*Sealance* pits you against alien enemy forces that have taken over the world. As skipper of a modified Trident submarine, your mission is to destroy their installations. Graphics and sound. Shareware. File SEALCE.LZH (248,320 bytes) in Library 2, "Games."

ATARI ST ARTS FORUM (GO ATARIARTS)

BBS Game—In *Assassin*, you play an assassin on a quest for gold and glory. It can be run from most BBSes and also as a stand-alone game. File ASN150.LZH (123,904 bytes) in Library 2, "Games."

BORLAND APPLICATIONS FORUM (GO BORAPP)

SideKick Add-On—CALSK2 produces a preview of your SideKick 2 calendar and to-do's on your screen, printer or file from SK2's calendar file without invoking SideKick 2. You can call CALSK2 from the command line or a batch file to preview the number of days you choose. Features include notes, reminders, look ahead, searching, RTM interfaces and more. File CALSK.EXE (89,151 bytes) in Library 1, "SideKick 2.0."

COMMODORE ART/GAMES FORUM (GO CBMART)

Millipede Adventure—In *Millifoot*, an adaptation of a familiar arcade game for the Commodore 128, it's you versus the crawly creature as it races for the bottom of the screen. Requires an 80-column monitor and a joystick in Port 2. File MILLI.BIN (19,840 bytes) in Library 8, "Adventure Games."

FOREIGN LANGUAGE FORUM (GO FLEFO)

Penpals—A text file containing lists of persons seeking (and organizations offering) penpal contacts. Names, addresses, ages, interests, etc. File PENPAL.LST (18,209 bytes) in Library 0, "Potpourri/Polyglot."



GAMERS' FORUM (GO GAMERS)

Color Match—*Mix and Match*, a high-resolution VGA game. Match the color by choosing the correct intensity of the three primary colors. The challenge is to do it with the fewest tries. File MIXMAT.ZIP (71,168 bytes) in Library 13, "Other Games."



GRAPHICS SUPPORT FORUM (GO GRAPHSUPPORT)

Graphics Viewer—BBVIEW, a GIF, BMP and RLE viewer for Windows 3.0. Allows you to convert GIFs to Windows wallpaper and BMP and RLE files to GIF. Can use the full 256 colors if you have a 256-color Windows driver instead of just the 236 colors Windows applications are normally allowed. Freeware. File BBVIEW.ZIP (22,828 bytes) in Library 3, "Decoders & Encoders."

HYPERTEXT FORUM (GO MACHYPER)

Russian Card Game—*Tablin*, a Russian card game in which you play against the computer for points. Comes with complete instruction manual and online help. Fits nine-inch monitors. HyperCard 2.0 and System 6.0.4 or higher required. Shareware. File TABLIN.CPT (36,864 bytes) in Library 2, "Games." File TAB.CPT (60,672 bytes), in the same library, uses real-looking cards instead of buttons.

IBM HARDWARE FORUM (GO IBMHW)

Printer Command Aide—Printer Dolly, a memory-resident, pop-up program allowing you to send any combination of commands to your printer at the touch of a key. Program comes set up with commands for HP LaserJet, DeskJet, Canon BJ10e and Epson LQ printers. Also set up for many cartridges and fonts. Shareware. File PRINTD.EXE (67,757 bytes) in Library 2, "Printer Utils [H]."

IBM NEW USERS FORUM (GO IBMNEW)

Hugo, the Sequel—*Hugo II*, a sequel to *Hugo's House of Horrors*. In this adventure game, Hugo and Penelope get swept up in an animated 3-D murder mystery. Requires EGA or VGA. File HUGO2.EXE (306,337 bytes) in Library 3, "Adventures [N]."

MACINTOSH APPLICATIONS FORUM (GO MACAP)

Visual Time Manager—An Excel template and macro set that helps in the development of weekly schedules. Graph-like schedules make it easier to see how busy your weekly schedule is and helps to identify free and over-booked times. Free and scheduled hours are tallied for each day. Requires Excel 2.2 or greater. Shareware. File SCHEDU.SEA (22,912 bytes) in Library 4, "Spreadsheets/Models."

MACINTOSH ENTERTAINMENT FORUM (GO MACFUN)

Lawn Zapper—Mark Schleupner's shareware arcade game for the Mac. Cut the grass and clear the screen of bottles, rocks and tires using special gun on lawnmower against enemies, such as the walking weed and Goober the Gopher. File LAWNZP.SIT (348,416 bytes) in Library 2, "Arcade/Action Games."

MODEM GAMES FORUM (GO MODEMGAMES)

Worthy Opponent—12 modem games in one, including *Army Ants*, *Backgammon*, *Cannonball Express*, *Cave-In*, *Checkers*, *Cornerstone*, *Lazer-Maze*, *Mini-Golf*, *Missile Strike*, *Quinte*, *Snake-Pit* and *TreasureQuest*. Direct connect feature with no auto-disconnect. Works in CompuServe's MTM Lobby. Chat, clock, lots of features with full documentation. File WRTHY2.ZIP (105,822 bytes) in Library 11, "Other Modem Games."

PC MAGNET UTILFORUM/TIPS FORUM (GO ZNT:UTILFORUM)

Windows Assistant—WINSAYER allows you to save, automatically restart and reposition all applications and utilities you used in your last Windows 3.0 session. When you next bring up Windows, WINSAYER restarts all of these programs as they were. File WINSAY.EXE (38,912 bytes) in Library 2, "PC Mag Utils."

SOFTWARE PUBLISHERS ASSOCIATION FORUM (GO SPAFORUM)

SPAudit—A software-management tool designed for use by corporate managers to conduct audits of their PC software. SPAudit searches for more than 625 applications and provides a list of all software installed on PCs. File SPADIT.ZIP (47,510 bytes) in Library 2, "SPA News/Business."

WORDPERFECT A FORUM (GO WPSGA)

Macros—Two WordPerfect 5.1 macros by Gregg Leslie. DIAMON.ZIP (4,746 bytes) forces text around an empty diamond shape in a document for an interesting desktop publishing effect. CIRCLE.ZIP (5,161 bytes) is a macro to place a circle or ellipse shape into the middle of text. Circular graphic or text arranged in a staggered fashion can be added. Both files in Library 4, "Macros/Merges."

ZMAC DOWNLOAD & SUPPORT FORUM (GO ZMC:DOWNTECH)

Empire Builder—A war-strategy game along the lines of *Empire* for DOS machines or *Strategic Conquest* for Macs. This is a limited shareware version. The save command is disabled. Fully functional version with registration. File EBUILD.SEA (278,272 bytes) in Library 1, "Applications."

Oldies but Goodies

by David Peyton

Following is a list of files uploaded to CompuServe forums more than a year ago that have won the right to be called "oldies but goodies," either by the recommendation of forum managers or by the number of downloads each file has received.

ADOBE FORUM

(GO ADOBE)

PostScript Reference—PostScript program to print a three-page, double-sided foldout programmer's reference. File QIKREF.PS (17,749 bytes) in Library 4, "PostScript."

AMIGA ARTS FORUM

(GO AMIGAARTS)

Game of Shapes—A game by Gary Milliorn that is similar to *Welltris* and *Tetris*. Fill lines with blocks of several shapes, as the blocks are dropped down the side of a well. File WELLTR.LZH (91,904 bytes) in Library 2, "Games."

ASTRONOMY FORUM

(GO ASTROFORUM)

Hubble's First Picture—The Hubble Space Telescope's First Light photo, a 30-second exposure of NGC 3532 in Carina. It has been false-color enhanced to show clearly the intensity variations in this doublet. GIF processed by Joe Mangan. Original print and false-color processing courtesy of University of Maryland Physics and Astronomy Departments. File NEW1ST.GIF (17,792 bytes) in Library 10, "Graphics."



ATARI PRODUCTIVITY FORUM

(GO ATARIPRO)

Archive Extractor—UNLZH, a fast archive extractor for LZH files for the Atari. This program extracts only; it does not compress. Four times faster than other programs for extracting. Works well with ARCSHELL. File UNLZH.ARC (18,816 bytes) in Library 4, "Utility Programs."

AUTODESK FORUM

(GO AUTODESK)

CAD Lessons—Five lessons to be used in CAD starter training. All are self-extracting files. Files LESSON.EXE (24,987 bytes), LESS2.EXE (25,034 bytes), LESS3.EXE (23,718 bytes), LESS4.EXE (22,027 bytes) and LESS5.EXE (19,236 bytes), all in Library 1, "AutoCAD."

COMMODORE ART/GAMES FORUM

(GO CBMART)

Pegasis—A jousting game for the Commodore 64. One or two players. Requires a joystick for each. File PEGASI.BIN (13,695 bytes) in Library 8, "Arcade/Action Games."

DBASE FORUM

(GO DBASE)

dBase Utilities—A list of 1,300 public-domain and shareware utilities for the dBase language (includes dBase II + IV, FoxBase, Clipper, Quicksilver, etc.). Organized by type of utility, it includes file name, product name, release date, type and short description. File DBUT05.ZIP (105,472 bytes) in Library 9, "3rd Party Utils."

DESKTOP PUBLISHING FORUM

(GO DTPFORUM)

Foreign Character Creator—A Mac init for putting foreign characters into text. Program creates a hot zone that you move your mouse to and a box appears with all the characters of the font in which you are currently working. Move mouse to desired character and character with all the same attributes pops into document you're working on. File POPCHA.SIT (13,184 bytes) in Library 5, "Mac DTP Utilities."

EDUCATION FORUM

(GO EDFORUM)

Study Buddy—Program "studies" with you for an exam by firing questions for you to answer. For MS-DOS systems. File STUDY.ARC (200,576 bytes) in Library 2, "Shareware & PD SW."

GAMERS' FORUM

(GO GAMERS)

SuperFly—An action game by Nels Anderson, author of *Mah Jongg*, *EGATrek* and others. Uses high-resolution graphics mode and requires EGA or VGA card to play. Chase the flies and other insect invaders through 20 rounds. Includes three levels of difficulty, shell to DOS. High score hall of fame. File SFLY10.ZIP (70,354 bytes) in Library 7, "Action/Arcade Games."

HYPERTEXT FORUM

(GO MACHYPER)

CatStuff—A program to keep track of all the files on all of your diskettes and read a disk catalog directly into HyperCard from a recently inserted disk. CatStuff treats Stuffit archive files as folders. Everything within a Stuffit file on a disk is listed in the catalog, including multiple sub-folders. Freeware. File CATSTU.SIT (16,256 bytes) in Library 7, "Home/Utilities."

IBM APPLICATIONS FORUM

(GO IBMAPP)

Inventory Aide—A stand-alone business inventory program. Good for small businesses or in-house uses. Purchases, sales, vendors, locations, cash flow profit, and more. Shareware. File EASINV.ZIP (198,528 bytes) in Library 6, "Business Apps [A]."

IBM HARDWARE FORUM

(GO IBMHW)

Disk Tester—HDTST, a program that allows thorough read/write testing of a hard or floppy disk without disturbing data on the disk. Data from a problem area is moved to a known good area, and the disk's FAT and directory entries are adjusted to preserve the structure of the file of which it is a part. File HDTST.ZIP (132,598 bytes) in Library 1, "Disk/Disk Utils [H]."

MACINTOSH APPLICATIONS FORUM

(GO MACAP)

QuickGIF—A program to display GIF graphics three to four times faster than most utilities. Feel the speed of a llfx on your Mac II. Display GIF, PICT, MAC and READMA files. Can perform spherization, conic and mirror transforms. Multiple file selection in the standard open dialog. Also plays sound files. Requires system 6.0.2 or later and at least Color Quickdraw. Shareware. File QGIF.SIT (128,896 bytes) in Library 9, "Graphics Tools."



MACINTOSH COMMUNICATIONS FORUM

(GO MACCOM)

Term-Plus—A terminal program specially designed for use on CompuServe. Features support for CompuServe's VIDTEX cursor control and high-resolution RLE graphics, B Protocol, XMODEM and YMODEM for file transfers, a built-in text editor that allows editing up to four files simultaneously while online, a CompuServe Navigation aide, AutoPilot mode, address book, macro buttons and more. File TPLUS.SIT (186,496 bytes) in Library 4, "Comm Progs/Utils."

WINDOWS NEW USERS FORUM

(GO WINNEW)

Mouse Activator—A program allowing activation of the mouse with non-Windows applications under Windows 3.0. Put it in a directory in a DOS PATH, call it in a BAT file before calling the application and call the BAT file from Windows 3.0. File MOUSEI.EXE (3,808 bytes) in Library 3, "Running DOS Apps." Pascal source and detailed description in file MOUSEI.PAS (1,672 bytes) in the same library.

David Peyton co-authored *How to Get the Most Out of CompuServe*, now in its fourth edition. His CompuServe User ID number is 76703,244.

Tips for Finding Files

In an environment as dynamic as the Information Service, some changes in file locations and names are unavoidable. To keep informed of changes in files mentioned in Uploads or anywhere in the magazine, GO OLT-600.

To find files with names that contain numbers indicating a version (i.e., WHAP 19.ZOO), search using * in place of the version number (WHAP*.ZOO). Watch forum news flashes for file updates, or if all else fails, post a message to the forum sysop.

The Incredible Shrinking Future



Mobile CompuServers are singing the praises of tiny modems and other shriveling 'info appliances.'

Flying at 20,000 feet, computer executive James Doody leans back in his seat and ponders his choices. Order coffee? Watch the movie? Call for his electronic mail?

Yes, electronic mail. And we're not talking Starship Enterprise here. Doody is part of a new breed of traveling executives making use of dramatic innovations in mobile office technology, paving the way for business travel in the 1990s and beyond.

Cellular modems, pocket computers and credit-card-sized devices liberate the well-connected business traveler from dependence on land telephone lines. Notebook-sized portable printers and fax machines give printing capability on land or above the clouds. Pen-based devices bring computing power to a new generation of executives who would rather jot than type. The well-organized desk is giving way to the well-organized lap.

It doesn't end there. From laptop to palmtop to wristtop, computing devices continue to shrink. The trend is well under way, with sales of lightweight computers the

fastest-growing sector of the market, including a host of miniature devices such as the Sharp Wizard, Casio B.O.S.S., GRiD Systems Gridpad, the Poquet, the Hewlett-Packard 95LX and the Atari Portfolio.

Wrist-mounted paging devices beep you with the phone number and a brief message from your caller, wherever you may be. And you can download data to tiny wrist-mounted computers from another machine.

CompuServe is playing a major role in this mobile office revolution, with its electronic mail and fax capabilities, the extensive support provided by its hardware and software forums, the availability of products in The Electronic Mall, and the up-to-the-minute information in thousands of online databases. If you're a business traveler, these services can give you a competitive edge.

Doody is among those travelers who are ahead of the crowd. He travels with a lightweight notebook computer, the Toshiba T1000SE, and doesn't wait for land lines to keep in touch with his office. While away, he communicates by wireless modem with his company mainframe, his own office PC, CompuServe Mail and CompuServe's company information databases.

His notebook computer has a built-in modem that he uses with an adapter and a

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portable Mitsubishi cellular phone. "I've often used my cellular phone with the computer to access CompuServe or my company mainframe when flying," Doody says. "It's a great way to get my electronic mail before a meeting and to file a quick report afterward. It also works well for keeping track of schedule changes, delays and reroutings. For me, the cellular link works so well that I use it whenever land-line communication gets tricky, such as when my hotel buries the phone connections, or switchboards don't honor my modem Touch-Tone signal."

Besides using CompuServe Mail and informational databases, Doody is active in the Toshiba Forum (GO TOSHIBA), the IBMNET Forums (GO IBMNET), and various vendor support forums for tips and shareware programs.

His traveler's wish list includes an all-in-one briefcase with compartments for the computer, phone and accessories; an even smaller notebook device with longer battery life; and standard plug-in connections for charging batteries and hooking up to laser printers in airports or hotels.

Japanese businessman Nobuo Takahashi, a Fujitsu Corp. engineer in charge of product planning and watching trends in the United States, agrees with Doody about the pleasures of traveling light. For Takahashi, size is everything. He's been traveling with portable computers since they came down to five pounds. Now he's down to a one-pounder (two if you include a 2400-baud WorldPort portable modem). He uses the device to take notes at meetings, to exchange fax and electronic mail messages via CompuServe while in the United States, and to make his airline reservations through the Official Airline Guide Electronic Edition (GO OAG).

"Laptops or notebooks are nice to travel with, but they aren't small enough and light enough for me to use on a plane or train,"

Takahashi explains. His machine is a midget word processor with communications, scheduling and address book features. Called the "OASYS Pocket," it's sold by Fujitsu in Japan, where "personal word processors are very popular and a lot less expensive than PCs of similar performance."

Another high-tech international traveler is Thom Hartmann, president of the Atlanta-based Newsletter Factory, which produces newsletters for clients and teaches newslet-

CompuServe and has the tickets sent for printing to a travel agency, where he uses the agency's other services as well. A magazine article writer as well as a novelist, he uses the Investors' Forum (GO INVESTOR) and the Foreign Language Forum (GO FLEFO) for article research.

"I like CompuServe's ability to transmit faxes," he adds. "I can type up a proposal in Microsoft Word, save it as text, go into CompuServe and send it to a client's fax machine." (For tips from Hartmann and others on traveling with mobile office equipment, see article on the top of page 22.)

Another desktop publishing expert, Dave DeBronkart, finds that the combination of his laptop and CompuServe gives him an important edge on the road in his work in marketing and post-sales support of PostScript printers.

His Toshiba T3100SX laptop contains backup software, upgrades to be installed on site and communications software to monitor the printer's performance. "All this has been vital in letting me do my work," he says.

"Providing good support is impossible without up-to-the-minute information. I get that information from CompuServe, especially the Ventura (GO VENTURA) and Desktop Publishing (GO DTPFORUM) Forums. I've learned vital unpublished information

about new software, how fonts are handled, how to tune up a PC and so on. That's not to mention all the free- and shareware utilities I've downloaded to address specific needs, and my use of CompuServe Mail's fax capability."

Kurt Gebauer appreciates the trend toward smaller, lighter computers, too. As business and personal manager for several touring musical groups, he's carried computers with him more than a million miles in the past nine years, starting with a 20-plus-pound Osborne "portable." Now he uses the Toshiba T1600/40.

"Aside from keeping in touch with my associates in the United States, the United



MAT WALTON

ter production. He's also well-known to the publishing enthusiasts who frequent CompuServe's Desktop Publishing Forum (GO DTPFORUM), where he's forum manager.

One recent trip took him to the Far East and to the West Coast for 18 days of meetings with an international relief agency and to teach his newsletter seminar.

"I continue to do virtually all of my CompuServe work on these trips," Hartmann says. "I read every message on the forum message board, maybe 500 a day, and reply to some of them. I carry my Compaq LTE20 notebook computer, and I use TAPCIS for automated online access."

Hartmann often books his own flights on

Kingdom and Australia, the portable allows me to carry information online that would take reams of paper to carry in hard-copy form," says Gebauer.

His machine stores databases for each client's touring history, including a computerized Rolodex of 2,000 "cards." But Gebauer has gone most of his traveling colleagues one better: His mobile office contains not one but two computers.

"I carry both the Sharp Wizard and my Toshiba," he explains. "The Toshiba stays in

the hotel room for telecommunications, major database access and word processing. The Wizard is in my briefcase for quick note-taking, calculations, telephone contact lookup, scheduling, calendar and alarm functions."

Gebauer finds plenty of support for his arsenal of equipment (he also has a portable phone) in CompuServe forums. He uses Wizlink, shareware from Consumer Electronics Forum—GO CEFORUM—Library 14, "Mobile Office," to upload and download

between the Wizard and Toshiba. Also, he finds useful information and utilities in the Macintosh Systems Forum (GO MACSYS), the Toshiba Forum (GO TOSHIBA), the Zenith Data Systems Forum (GO ZENITH), and the PC Vendor Forums (GO IBMNET).

The Toshiba Forum is an important source of support for Toshiba portables, laptops and notebooks. Forum Manager Hugh Faulkner notes that the structure of the forum leaves room for information about new products, such as color laptops and wireless communication devices. The forum supports the industry's first VGA color laptop, Toshiba's T3200SXC, and its new internal cellular modem, the T24D/X, which allows you to connect your computer to your mobile telephone and transfer data when there's no phone line handy.

Faulkner agrees that wireless communication is a hot topic. At a recent conference, he learned of a claims person for an insurance company who would go to the scene of the claim and from his van send the information by wireless to his office. "There someone would run the claim and fax a signed check back to his van, which he'd print on his portable fax machine and present to the claimant."

To aid in wireless communication, another computer maker, NEC Corp., is selling a 6.5-pound laptop in Japan with a built-in modem and transceiver that allow it to communicate over radio frequencies. Its memory can receive mail messages even when the machine is turned off, according to a NEC spokesperson.

Portable phones are "the hottest sector of the consumer electronics industry right now," reports Dawn Gordon, manager of the Consumer Electronics Forum (GO CEFORUM). One section, "Mobile Office Magazine," is dedicated to cellular phones, accessories, palmtop computers and pagers.

"We get about 250 to 350 messages a day on our message board and many are on the subject of portable phones," Gordon says. "We have some forum members who are super-knowledgeable about this, such as the editors of *Mobile Office Magazine*." Library 14 contains articles from the magazine offering tips and product comparisons.

Gordon, who has written about 300 magazine articles on consumer electronics, foresees improvements in mobile phone technology in the next few years, including greater product standardization for travelers who need to connect wireless phones to their computers for data communication.

Like other travelers, Joseph Katz wears more than one hat. Besides being forum manager of the Zenith Data Systems Forum (GO ZENITH), he's professor of American literature at the University of South Carolina.

The Mall's Laptop Stop



Pint-sized powerhouses: Palmtops

Think small for your mobile office and you might be pointed to Laptops Infinity (GO LI), a merchant in The Electronic Mall specializing in (what else?) laptops.

What's hot for Laptops Infinity shoppers? William Murrell, manager of the company's walk-in store in Cambridge, Mass., says CompuServe members are snapping up the Atari Portfolio palmtop. "They like the Lotus-compatible spreadsheet, the phone directory, the 100-hour battery and 128K of memory." The machine also is supported on the Atari Portfolio Forum (GO APORTFOLIO).

Also popular is L.I.'s roster of computer catalogs. There's one for notebooks less than 10 pounds, laptops more than 10 pounds, and one for the smallest "coat

pocket" computers. Laptops Infinity also does a brisk business in used computers and computer parts.

Among the bargains are discounts for members of CompuServe hardware forums that support products sold by L.I., says Murrell. For example, members of the Zenith Data Systems Forum (GO ZENITH) get a discount of 2 percent to 3 percent on L.I. purchases of Zenith equipment.

L.I.'s software offerings include a product called PC Anywhere, which connects your laptop to your office computer. You start PC Anywhere on your office desktop machine, then dial in from "anywhere" with your laptop to access your files, run applications, print to your desktop printer or send e-mail.

A Forum for the Well-in-Hand Computer



Big performance, little package: Sharp Wizard

The new class of "palmtop computers," perhaps the hottest sector of the computer hardware market, has found a home in a new CompuServe Palmtop Forum (GO PALMTOP), which opened several weeks ago.

The forum supports a new breed of small machines that weigh about a pound and fit into the palm of your hand. They're also called "organizers" since they manage your calendar, phone directory and project lists, as well as performing the usual tasks of word processing, communications and other applications.

Managers of the Palmtop Forum are a husband and wife team who are experienced managers of CompuServe forums. Ron Luks is manager of the Atari Forums (GO ATARI) and the CompuServe test forums, and Dawn Gordon is manager of the Consumer Electronics Forum (GO CEFORUM).

As they see it, the Palmtop Forum offers users the benefits of two kinds of CompuServe forum support: message sections and libraries that are operated by individual hardware or software support found in other forums, vendors, and user computer forums, such as the Macintosh, IBMNET and Atari Forums.

"We wanted to combine the best of both worlds," explains Luks. "The Palmtop Forum gives us officially sponsored vendor support and also the flexibility of a user forum, with sections that go beyond specific vendors."

Among the rapidly growing number of companies marketing the new palmtops are Sharp (Wizard), Casio (B.O.S.S.), Poquet and Psion.

In addition to the vendor sections, the forum has user-operated areas for utilities and communications. "Connectivity between palmtops and desktop machines is an important issue we support here," notes Luks. "Also, we're a storehouse of press releases on new products, and we plan to attend the major trade shows." He adds that the forum has plenty of room for the expansion of user areas and vendors.

The Palmtop Forum specializes in palmtops, but it isn't the only place to find support for them on CompuServe. The Atari Portfolio Forum (GO APORTFOLIO) supports that device and the Hewlett-Packard Forum (GO HP) supports the new H-P 95LX palmtop. Discussions and utilities for data exchange between palmtops and desktop computers can be found in the Macintosh (GO MACSYS) and the IBM System (GO IBMSYS) Forums.

—MN

"Since portables came out I travel with a PC and, where possible, take my research notes on my word processor," says Katz, who does research in libraries all over the world.

"My goal is to be able to hook up an optical character reader so that the notes I take from books can be scanned into the word processor at the parallel or serial port. There's a hand scanner/adaptor device I'm looking at right now. The biggest investment on these trips is getting there and staying there, so the more I can accomplish in any trip, the less expensive each trip becomes."

Katz's work fits in well with his role as forum manager, where he observes some ingenious uses for the Zenith machines, including the SupersPort, MinisPort and TurbosPort notebook computers. For example, one member runs an informational bulletin board from his office on a Zenith MinisPort with a hard disk.

While these business travelers are using state-of-the-art technology—and benefiting from CompuServe support—futurists are looking ahead to still newer mobile office applications.

Paul Saffo, research fellow at the Insti-

tute for the Future, in Menlo Park, Calif., foresees a major change in the way people use computers. They'll be seen, he says, as "information appliances." The example he cites is the forthcoming pen-based computer, which is expected to make an appearance by year's end.

"The pen device is neither an electronic calculator nor a note-taker, but an electronic device that performs those tasks," Saffo says. "You don't deal with an operating system or a keyboard. In the long term, five years or more, these devices will become very uncomputer-like and less obtrusive."

Lower costs and miniaturization will bring about machines that can be postage-stamp sized and thrown away after use. "We have gift cards with chips built in to play tunes," Saffo notes. "That's a pretty good statement about how inexpensive the technology is getting."

The other major trend Saffo spots for the computing traveler is that connectivity will become critical. "Devices with built-in wireless modems will become a way to send and receive faxes on the road," Saffo predicts. "My hunch is that the Group 3 fax standard

will become the 'ASCII' of the 1990s. It will be the default file transfer mechanism for electronic mail. You'll be able to receive faxes by wireless, look at them on your screen, manipulate them, add comments and send them to another destination. When you're traveling, the nearest fax machine can be your road printer."

Saffo foresees new cellular technology replacing the current cellular networks, which he says are becoming "saturated." "Inexpensive wireless technologies are waiting in the wings to replace cellular. One can imagine hybrid projects, such as a wireless-plus-pager, so that you get paged in your car, you pop off the freeway, go to a gas station that has a wireless base and return the call."

In the coming world of pen-based computers, industry eyes are focused on GO Corp., publisher of PenPoint, the only general-purpose operating system designed for mobile computers operated by a pen, rather than by a keyboard or mouse. GO has released developer versions of PenPoint, and end-user applications could appear before the end of the year.

Such hardware manufacturers as GRiD

Long Live the Long-Lived Model 100

The grandfather of today's sleek notebook-sized laptops, the Tandy Model 100 caused a sensation in 1983 by offering a full-sized keyboard, word processor, modem, telecommunications program and BASIC language in a four-pound package. Enchanted by its portability, customers snapped up an estimated 1 million units. Now named the Model 102, the computer still sells well at \$599, and many of its long-time owners wouldn't dream of giving it up.

"They don't want the weight, cost, short battery life, or complexity of an MS-DOS laptop," says Tandy spokesman Ed Juge, who frequents CompuServe's Model 100 Forum (GO M100SIG). "If all they're going to do is send e-mail and do word processing, what do they need a '386 for?"

Since many Model 100 users bought the machine for its ability to communicate while on the road, CompuServe has played a key role in the machine's popularity. For instance, much of the Model 102's 32K of memory is taken up by built-in programs. But by using CompuServe's Personal File Area (GO FILES), users can store an additional 128K of information. Some Model 102 owners treat that area as a disk drive, available through their machine's built-in modem.

"I've used the Personal File Area as a backup while on the road," says Mike Nugent, editor of *Portable 100* magazine. "If your machine crashes in the wilderness, you can find a telephone, call up and retrieve important files."

Portable 100 magazine, dedicated to spreading the word about Tandy's Model 100 series, initially sponsored the Model 100 Forum shortly after the computer's debut. The free-flow of information from die-hard Model 100 fans has never stopped.

One member, for instance, recently found help in connecting his old Model 100 to a new laser printer. Another found the right software and cable combination to dump his Tandy 200 files into a Macintosh SE. Others have discussed using a simple 6-volt lantern



Durable and easy to use: The venerable Model 100

battery to boost the laptop's battery life to 200 hours.

The forum supports Tandy's Model 100, 102, 200, 600 and WP portables, as well as similar laptops from other manufacturers. It attracts an eclectic mix of new users and old-timers who swear by the capabilities of their simple machines.

One member, journalist Joe Stephan, covers professional auto races. He writes articles on-site with his Tandy portable, then uses it to file his stories via CompuServe. "When on short deadline, I have to file stories with as many as 20 different outlets: wire services, daily papers and race papers," he says. "In addition to posting with

Systems Corp., NCR and IBM have announced plans to offer devices that support PenPoint. GRiD is already on the market with its pen-based GridPad, consisting of an electronic pen and tablet, but with its own variant of the MS-DOS operating system.

The initial market for the pen-based devices is thought to be field workers, census takers, inspectors, police and fire fighters, insurance claims adjusters and others whose data-entry needs are limited to short entries on electronic forms.

GO Corp. sees PenPoint moving into the managerial ranks as well. According to spokesperson Carol Broadbent: "Our business strategy is to license software so that I, as a mobile worker, need only come back to my office when I have to. If I'm a mobile

executive, I can do budget work, note-taking and presentations while on the move. The system has to be designed for these needs and be incredibly easy to use."

Some 40 software developers are at work creating applications for the PenPoint operating system. The first commercial software product on the scene is PenApps, an application development system from Slate Corp.

Industry analyst Esther Dyson, editor/publisher of *Release 1.0* newsletter, agrees that a pen-based traveling computer has to be "small enough and easy enough to use that you don't need to read the documentation." That's what it will take for her to travel with one. The GO machine will be the starting point, she says. "There'll be some standard applications—spreadsheets and word

processing, for example, but what will make this machine successful will be new applications, the way PageMaker made the Macintosh successful."

Dyson envisions the business traveler using a pen-based computer to organize a mobile work place, with spreadsheet, note-taking, calendar, e-mail and fax capabilities all linked in a tiny machine. "The only limitations here will be human limitations—not limitations in the devices," she says.

Even today, limitations in the size and power of computers are disappearing. Midget computers team up with tiny modems and lightweight portable printers. You'll find support for these computers and peripherals in several CompuServe forums (see accompanying stories on pages 15 and 22-24).

the Racing Forum (GO RACING), a couple of stories are filed via CompuServe Mail, and a couple are filed modem direct. Most are sent via CompuServe fax, using the multisend feature."

Stephan has tried other laptops, but hasn't found anything as lightweight, inexpensive or versatile. "When I flew to the East Coast last year," he says, "in checking with the airlines I found the Model 102 and 200 to be on the list of only a few laptops OK for use in the air." The Model 100 series of laptops doesn't seem to give off as much radio interference as MS-DOS counterparts. According to member Jim Lyon, that makes them superior for his work with ham radio.

Another forum member, Jerome Rozner, bought his Model 100 seven years ago, when it was the only truly portable laptop on the market. "When I was flying my own plane," Rozner says, "I would log on to CompuServe first thing in the morning to get the weather and then get a complete flight plan for my destination airport. Later I was able to file my flight plan directly through the computer."

The Model 100 Forum contains more than 4,000 programs and files, and it's a quick source of information about the machines. Many people buy second-hand Tandy laptops without a manual; they'll find detailed instructions in the libraries.

Since the Model 100 spawned the concept of "computing on the go," many old-time members were among the first to tackle the special problems of portable computing. Library archives dating back to 1984 describe early solutions to dialing out from ill-equipped hotel rooms.

Questions not discussed in the forum's libraries can be pursued in the message sections, where authors of many Model 100 programs gather to discuss tips and tricks.

The Model 100 series pops up in other CompuServe forums. For instance, the Journalism Forum (GO JFORUM) contains programs allowing the Model 100 to format screenplays and text broadcasts. Another file describes how to make an emergency Model 100 modem cable using a piece of phone cable and a paper clip (Library 4, "Journalism Tools," file M100.CBL).

The machine's attraction isn't limited to users in the United States. Forum Manager Wayne Day says he's seen Model 100s for sale in Hong Kong, and the forum attracts so many international members that "it's so commonplace now, it's no big deal."

The Model 100 series not only competes with the newer notebooks in weight and durability but in another key area: price. MS-DOS notebooks usually cost more than \$1,000; the Model 102

sells for \$599, and used models can be found for a few hundred dollars.

"It's like an early model Volkswagen," says Nugent, describing his Model 100. "It will get you there, it won't cost an arm and a leg, and you don't mind scratching it along the way."

The hardy machine can take its lumps, according to forum member Wilson Van Alst. "I dug my Model 100 out from the debris of a fallen bookcase in the October 1989 San Francisco earthquake," Van Alst says. "It was unscathed." When that same quake knocked out the city's power lines, *The San Francisco Examiner's* writers relied on their battery-powered Tandy portables to help create an emergency edition of the paper.

Acting on the Model 100's long-lived success, Tandy recently released the WP-2 portable word processor. Bearing a low \$349 price tag, the new 3-pound WP-2 contains a spell-checker and thesaurus. Like its Model 100 precursor, the WP-2 can send stories by modem.

The new machine is competing for a similar market, and it has already affected the Model 102's sales. Tandy's Juge still relishes the peculiar charm of the Model 102.

"I've probably spent more time typing on the keyboard of the Model 100/102 than anything else we've got. When the time comes that it stops selling and we decide to discontinue, a lot of people are going to be heartbroken."

Van Alst is one of them. "I own a desktop (PC type) computer, and I use it constantly," he says. "However, if I had to choose between keeping the PC or keeping one of my Model 100 class computers, I would kiss my DOS goodbye."

Form member Gene Wilburn, too, holds a special fondness for his Model 100. "I've used some pretty fancy MS-DOS portables, and they're quite excellent," he says, "but they just don't have the same panache. There's a certain insouciance about the Model 100 and 102 that you just don't get with the latest and greatest portables."

Rick Hanson, president of Club 100 (a support group providing hardware and software), explained his attraction to the machine. "It's used on U2 spy planes, ambulances and police cars," he says. "I've seen people on horseback, using them to count their herds. On television during the Persian Gulf War, I saw a man calling in his story, reading off the screen of a Model 200."

"It's a true personal computer."

R. Andrew Rathbone, author of The Computer Gamer's Bible, is a free-lance writer based in San Diego. His CompuServe User ID number is 73337,1252.

An example of the new tiny modems is the Practical Pocket Modem, a credit-card-sized device from Practical Peripherals.

"The evolution of the modem has interesting aspects," says Reece Clemens, Practical Peripherals regional manager, "including downsizing and adding features to the product. The traveler can take this modem, which fits into a shirt pocket or laptop case, on the road and connect with CompuServe, send faxes, get e-mail, and stay in touch with his office or sales force."

Clemens says the little modem is configured with an RS-232 connector and a DB9 adapter, as well as a phone cord. Power to the modem comes from the serial port and the phone line. Speed of the unit is 2400 baud.

Rounding out the latest equipment for

the "compleat traveling communicator" is a lightweight printer. Canon USA Corp. offers a 4.6-pound Bubble-Jet printer, the BJ-10e. This printer uses inkjet technology, which blows the ink on the page when the print head nozzles heat up and burst the ink bubbles. According to Lee Farrell, Canon's product support manager, "you get very high-quality output of 360 by 360 dots per inch."

"Customers love it. They put it in their briefcases and take it to a sales site or to another country and use it with their laptop computers," Farrell adds. The battery-powered printer is PC-compatible and connects to the laptop's parallel port.

The Bubble-Jet printer is one of several products supported on Canon's new forum on CompuServe (GO CANON). Also supported

are the Canon Laser Beam printer, the Canon Scanner and the Canon Navigator, a combined fax machine, phone, phone-answering machine and scanner.

So the image in the crystal ball begins to take shape. Today's business travelers aren't waiting for a future mobile office. They're making it happen now, with the help of CompuServe support through its forums, its e-mail and fax capabilities, its extensive databases and its shopping services.

Business travelers also know that when the future arrives, with its array of pen-based, wireless, wrist-mounted and other still-unknown computing devices, CompuServe will be there to support it.

Buying into Mobility: An Example

Ready to make your office mobile? Finding the right products could take weeks of reading and shopping—unless you use CompuServe to help you research products and make educated purchasing decisions.

Suppose you're looking for a printer to go with your laptop computer. First, check in the Computer Directory (GO COMDIR) for a list of portable printers and manufacturers. Search by "Product Category" (Option 1) and then select Option 11, "Printers, Plotters and Hard Copy Devices." Narrow the search, which has resulted in more than 1,700 hits, by selecting a type of printer; for example, "Ink Jet Printers" (Option 7). This offers 35 listings, but the search still needs to be narrowed to include only portable printers. Select Option 2, "Words in Product Listings," and type PORTABLE. This results in five listings:

1. BJ-10e Bubble-Jet Printer—Canon USA Inc.
2. Model 6694—Data General Corp.
3. Diconix M150 Plus—Eastman Kodak Co.
4. WriteMove Portable Printer—GCC Technologies Inc.
5. Thinkjet Model 2225—Hewlett-Packard Co.

Read each product listing to learn the retail price, printer emulation, noise level, weight and more. Total search cost: \$5.35.

Next, consult Computer Database Plus (GO COMDB). After reading the product specifications, select those printers that fit your price range and meet your needs. For this example, you choose the Canon BJ-10e Bubble-Jet and the Eastman Kodak Diconix M150 Plus.

For reviews of these two printers, search Computer Database Plus under "Key Words" (Option 1) using the phrase PORTABLE PRINTERS. Narrow the search from the 83 articles that result with the phrase CANON OR KODAK. A menu of matching articles offers 30 reviews and news items. You can read two full-text reviews and two summaries for a total cost of about \$9.

After reading product reviews, let's say you decide on the Canon Bubble-Jet, but you want to know what other users think of it. Type FIND CANON and you'll be directed to the Canon Support Forum (GO CANON). In Message Section and Library 3, "Bubble-Jet Printers," you can ask Bubble-Jet users and Canon representatives spe-

cific questions, plus read magazine reviews and find utilities for that printer.

It's just as easy to research portable pocket modems. Again, Computer Directory can help you find out what brands are available. Search by "Words in Product Listings" (Option 2) using the phrase MODEM AND POCKET. This search results in more than 40 hits, including The Practical Pocket Modem from Practical Peripherals, the Sportster 2400 Pocket Modem from US Robotics and the Smart One Traveler from Best Data Products. The product listings offer important information, including the manufacturer's name and address, modem specifications and cost. Total search cost, which includes five product listings: \$5.05.

After using the Computer Directory product descriptions to zero in on a few of those 40 pocket modems, turn to Computer Database Plus to read actual reviews and news items. Begin the search with "Key Words" (Option 1), using the phrase POCKET MODEM. Nearly 40 articles from a number of computer industry and consumer publications, including *PC Computing*, *PC Sources*, *The New York Times* and *PC Week* are available. For a total search cost of about \$8.50, you can read five abstracts and one full-text article.

If you had decided to learn more about the Practical Peripherals Pocket Modem 2400, your next stop would be The Practical Peripherals Forum (GO PPIFORUM). Section 2, "Modems and Comm Q & A," offers specific advice on buying a modem, as does Section 6, "Novice Nook." Help files and utilities related to the Pocket Modem 2400 are in Library 1, "General Info & Help," and Library 2, "Communications."

Once you've decided which products to buy, compare prices in The Electronic Mall (GO MALL) with those of local dealers. You can shop free of connect-time charges and choose from 25 stores that sell computers and related products. In our above examples, the Canon Bubble-Jet Printer is available from MicroWarehouse (GO MCW) and Laptops Infinity (GO LI), and the Practical Peripherals Pocket Modem 2400 is sold in MicroWarehouse (GO MCW).

For more information and buying sources for mobile office products, see charts beginning on page 19.

—Cathryn Conroy



Mobile merchandise: Practical Peripherals

Browsing the Computer Library

For more product information online, Computer Library (GO COMPLIB) offers computer reference search-and-retrieval services including:

Computer Directory (GO COMDIR). Information on more than 9,500 manufacturers and 55,000 products. Search by manufacturer name, product category, product name or any word or phrase that occurs in a product listing.

- Connect-time surcharge: \$24/hour (or 40 cents/minute).
- To display menu of matching products: \$1 each.
- To display menu of matching manufacturers: \$1 each.
- Full product listing: 25 cents each.
- Manufacturer listing: 25 cents each.

Computer Database Plus (GO COMDB). Product reviews and news published in more than 130 computer industry magazines, newspapers and journals. Offers nine ways to search articles, singly or in combination.

- Connect-time surcharge: \$24/hour (40 cents/minute).

—Full-text articles: \$2.50 each.

—Article summaries (if full-text not available): \$1 each.

InfoWorld Online (GO INFOWORLD). Comprehensive product reviews and comparisons. Search by specific product, hardware or software category or company name.

—Surcharge to download articles: \$2 each.

—Abstract and reports cards: no surcharge.

Don't overlook the forums for product information. Read reviews of selected products, learn more about how a product works and download utilities in many of the forum libraries. Consult the forum listed next to the product or manufacturer in the Buying Guide beginning on page 19. Enter the appropriate library number at the prompt and select Option 1, "BROWSE thru files," from the Library menu. When prompted for a key word, type in the product name or manufacturer. Forum members are also a valuable resource. For opinions on products, answers to technical questions and more, post a question on the forum's message board.



Compaq LTE

If you're in the market for a laptop computer or portable peripheral, CompuServe can help with your buying decision. Listed below are companies represented online either through official vendor support or through active user groups. In many cases, you can make your purchase online in The Electronic Mall or Shoppers Advantage Club. The Electronic Mall is free of connect charges.

COMPAQ COMPUTER

Models

Compaq LTE series
Compaq SLT series
Portable III

Information

IBM Hardware Forum (GO IBMHW),
Sec. & Lib. 6, "Small Computers"

Online Buying Source

Laptops Infinity (GO LI)
Shoppers Advantage Club (GO SAC)

MOBILE OFFICE

E Q U I P M E N T

CONSUMER GUIDE

APPLE COMPUTER

Models

Macintosh Portable

Information

Macintosh Systems Forum (GO
MACSYS), Sec. & Lib. 8, "Portables"

Online Buying Source

CDA Computer Sales (GO CDA)
Computer Express (GO CE)
MacFriends (GO MF)
MacWarehouse (GO MW)

ATARI

Models

Atari Portfolio
Stacy Laptop

Information

Atari Portfolio Forum (GO
APORTFOLIO), Macintosh Systems
Forum (GO MACSYS), Sec. & Lib. 16,
"Palmtops & Macs"

Online Buying Source

Laptops Infinity (GO LI)

AMSTRAD

Models

Amstrad PPC 512
Amstrad PPC 640

Information

IBM Hardware Forum (GO IBMHW),
Sec. & Lib. 6, "Small Computers";
Computer Club Forum (GO CLUB), Sec.
& Lib. 13, "Amstrad," and Sec. & Lib.
17, "Laptops/Portables"



Toshiba

CASIO

Models

Casio B.O.S.S

Information

Consumer Electronics Forum (GO
CEFORUM), Sec. & Lib. 14, "Mobile
Office"; Macintosh Systems Forum (GO
MACSYS), Sec. & Lib. 16, "Palmtops &
Macs"

Online Buying Source

Laptops Infinity (GO LI)
Shoppers Advantage Club (GO SAC)



Zenith MinisPort



Macintosh Portable

DELL COMPUTER

Models

Dell System 316LT
Dell System 320LT
Dell System 320N

Information

PC Vendor D Forum (GO PCVEND),
Sec. & Lib. 1, "Dell Computer"

IBM

Models

IBM PS/2 L40 SX

Information

IBM Hardware Forum (GO IBMHW)

EPSON AMERICA

Models

NB3 Notebook Computer
Equity LT series

Information

Epson Forum (GO EPSON)

HEWLETT-PACKARD

Models

HP Portable
HP Portable PLUS
HP Vectra CS Portable
HP Vectra LS/12
HP palmtop, handheld and high-end
programmable calculators

Information

Hewlett-Packard PC Forum (GO HP)

KYCERA ELECTRONICS

► Models

Kyo-85

► Information

Tandy Model 100 Forum (GO M100SIG), Lib. 12, "NEC/Olivetti/Kyo-85"

LEADING EDGE

► Models

D/LT series

► Information

IBM Hardware Forum (GO IBMHW)

► Online Buying Source

Shoppers Advantage Club (GO SAC)



NEC UltraLite

NEC AMERICA

► Models

ProSpeed series
UltraLite series
PowerMate series
NEC 8201A laptop
NEC Starlet series

► Information

IBM Hardware Forum (GO IBMHW), Sec. & Lib. 6, "Small Computers"; Tandy Model 100 Forum (GO M100SIG), Lib. 12, "NEC/Olivetti/Kyo-85" and Lib. 13, "Products/Reviews"; CP/M Forum (GO CPM), Lib. 2, "General CP/M Files"

► Online Buying Source

Shoppers Advantage Club (GO SAC)

NORTHGATE COMPUTER

► Models

SlimLite

► Information

PC Vendor A Forum (GO PCVENA), Sec. & Lib. 10, "Northgate"

OLIVETTI

► Models

Olivetti M10

► Information

Tandy Model 100 Forum (GO M100SIG), Lib. 12, "NEC/Olivetti/Kyo-85"

OUTBOUND SYSTEMS

► Models

Outbound Laptop

► Information

Macintosh Systems Forum (GO MACSYS), Sec. & Lib. 8, "Portables"

POQET COMPUTER

► Models

Poquet

► Information

IBM Hardware Forum (GO IBMHW), Sec. & Lib. 6, "Small Computers"

► Online Buying Source

Laptops Infinity (GO LI)

PSION

► Models

MC 200
MC 400
MC 600
Organiser II

► Information

Consumer Electronics Forum (GO CEFORUM), Sec. & Lib. 14, "Mobile Office"

SANYO

► Models

MBC laptop series

► Information

Computer Club Forum (GO CLUB), Sec. & Lib. 2, "Sanyo," and Sec. & Lib. 17, "Laptops & Portables"

SHARP ELECTRONICS

► Models

Sharp Wizard Pocket Computer

► Information

Consumer Electronics Forum (GO CEFORUM), Sec. & Lib. 14, "Mobile Office"; Macintosh Systems Forum (GO MACSYS), Sec. & Lib. 16, "Palmtops & Macs"

► Online Buying Source

Shoppers Advantage Club (GO SAC)
MacWarehouse (MCW)



Toshiba 1000SE



Tandy 1400

TANDY

► Models

Tandy 80286
Tandy 102
Tandy 1100 FD
Tandy 2800 FD
Tandy 2810 HD
Tandy 1500 HD
Tandy 1400 LT

► Information

Tandy Model 100 Forum (GO M100SIG)
IBM Hardware Forum (GO IBMHW), Sec. & Lib. 6, "Small Computers"

► Online Buying Source

MaryMac Industries Inc. (GO MM)
Shoppers Advantage Club (GO SAC)

TEXAS INSTRUMENTS

► Models

Travelmate series

► Information

Texas Instruments Forum (GO TIFORUM), Sec. 7, "TI Laptops & Lasers"

► Online Buying Source

Shoppers Advantage Club (GO SAC)

TOSHIBA AMERICA

► Models

T1000 series
T1200 series
T1600 series
T2000SX
T3100 series
T3200 series
T5100/100
T5200 series

► Information

Toshiba Forum (GO TOSHIBA), all libraries, Sec. 4, "Entry Notebooks," Sec. 6, "High Power Notebooks," Sec. 8, "Mid-range Portables," Sec. 10, "Portable Laptops"

► Online Buying Source

Laptops Infinity (GO LI)
Shoppers Advantage Club (GO SAC)

ZENITH

► Models

MinisPort series
SlimsPort 286
SupersPort series
TurbosPort 386

► Information

Zenith Data Systems Forum (GO ZENITH), Sec. 2, "Portables"

► Online Buying Source

Laptops Infinity (GO LI)
Sears (GO SEARS)

MODEMS

APPLE COMPUTER

► Models

Macintosh Portable Data
Modem 2400

► Information

Macintosh Systems Forum (GO
MACSYS), Sec. & Lib. 8, "Portables"

► Online Buying Source

CDA Computer Sales (GO CDA)
MacFriends (GO MF)
(Compatibles)

HAYES

► Models

Pocket Modem 2400

► Information

Online with Hayes (GO HAYES); Hayes
Forum (GO HAYFORUM), Sec. & Lib. 1,
"General Information"

MEGAHERTZ

► Models

EasyTalk modem series

► Information

PC Vendor C Forum (GO PCVENC),
Sec. & Lib. 9, "Megahertz"

► Online Buying Source

Laptops Infinity (GO LI)

PRACTICAL PERIPHERALS

► Models

Practical Pocket Modem
Standard 2400 Modem PM 2400LT
MNP Level 5 Modem PM 2400LT
Sendfax Modem 2400LT

► Information

Practical Peripherals Forum
(GO PPIFORUM)

► Online Buying Source

MicroWarehouse (GO MCW)

PRINTERS

CANON

► Models

Bubble-Jet Printer BJ-10e

► Information

Canon Support Forum (GO CANON)

► Online Buying Source

MicroWarehouse (GO MCW)
Laptops Infinity (GO LI)
Shoppers Advantage Club (GO SAC)
Home Tech Depot (GO HT)

HEWLETT-PACKARD

► Models

Thinkjet Model 2225

► Information

Hewlett-Packard PC Forum (GO HP)

PERIPHERALS

TANDY

► Models

Tandy Portable Disk Drive

► Information

Tandy Model 100 Forum
(GO M100SIG)

DATASTORM TECHNOLOGIES

► Models

Hot Wire file transfer utility

► Information

Datastorm Forum (GO DATASTORM),
Sec. & Lib. 6, "Hot Wire"

MEGAHERTZ

► Models

Laptop enhancement products,
including LAN cards, memory
upgrade and emulation cards

► Information

PC Vendor C Forum (GO PCVENC),
Sec. & Lib. 9, "Megahertz"

RUPP

► Models

Fastlynx file transfer
Fastlynx LapPack

► Information

PC Vendor C Forum (GO PCVENC),
Sec. & Lib. 10, "Rupp"

► Online Buying Source

Computer Express (GO CE)

TRAVELING SOFTWARE

► Models

LapLink (file transfer)
Battery Watch (pop-up fuel gauge)
WinConnect (drive redirector)

► Information

IBM Communications Forum
(GO IBMCOMM)

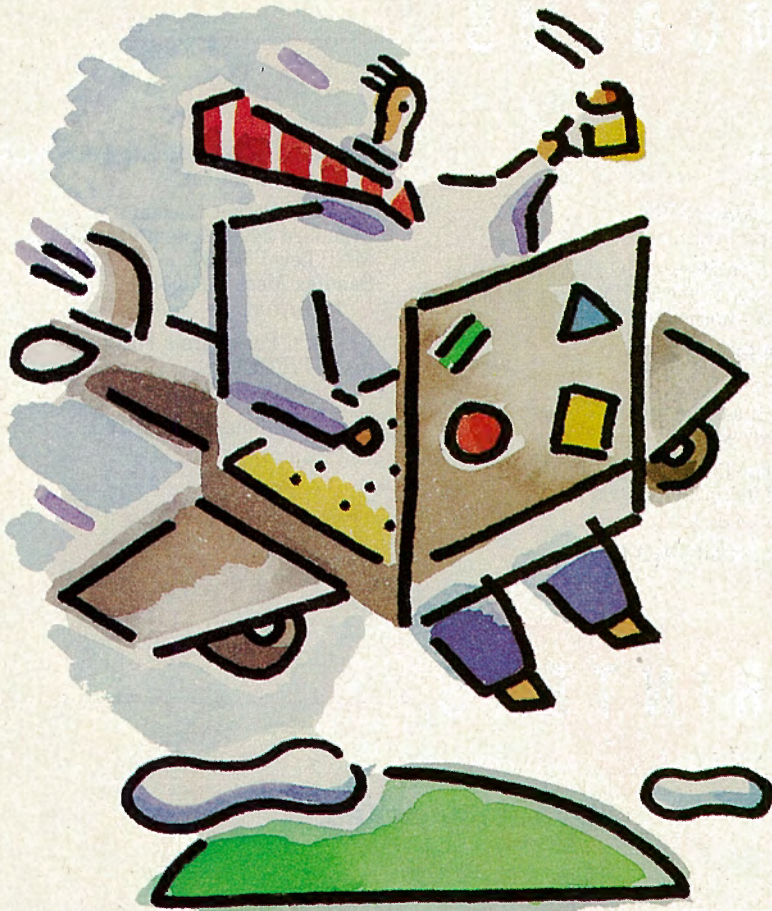
WORDSTAR

► Models

WordStar Laptop Collection,
software bundle for laptops

► Information

WordStar Forum (GO WORDSTAR)



ROBIN JAREAUX

Traveling with Laptops: What to Know Before You Go

The roadwise computer user travels light, but goes prepared for all connection eventualities.

Back in 1980, Thom Hartmann slung a glorified Sony dictating machine over his shoulder and became one of the world's first computer users to hit the road. Five continents, 30 countries and nearly 2 million miles later—covered in the course of speaking engagements, business travel and volunteer work for an international relief organization—he's become roadwise to the problems awaiting the traveling electronic communicator, and equally well-versed in ways to circumvent them.

"I never check any bags," Hartmann says, "so the weight of my carry-ons is critical. My Compaq LTE laptop weighs eight pounds, and all the modem communication gear I bring—20-foot RJ11 coiled cord, RJ11 plug with three feet of wire and lugs on the end, alligator clips, and one-inch, thick-bladed screwdriver—fits into my toiletry case."

With that stripped-down kit and an internal modem, he has accessed CompuServe

In the Laptop of Luxury: Notable Files



Communications

Communications Program—Sim Term, a small yet full-featured communications package for use on single disk computers or HardRAM disks. Supports ZMODEM, 1K-XMODEM and other protocols. Toshiba Computer Forum (GO TOSHIBA), Library 5, "Other Utilities," file SIMT20.ZIP (45,056 bytes). Shareware.

Compaq SLT/286 Programs—Changes the default video mode on the fly. IBM Hardware Forum (GO IBMHW), Library 6, "Small Computers," file SLTVID.ARC (1,950 bytes).

Conferencing Program—Fully automated program, specially designed for CompuServe forum teleconferences. Zenith Data Systems Forum (GO ZENITH), Library 2, "Help & Information," file CISCO.ZIP (37,694 bytes).

Forum Conferencing—Coexpert has all the bells and whistles wanted by frequent participants in teleconferences on CompuServe forums. Color-coded conversations let you distinguish one or more people in a conference. Zenith Data Systems Forum (GO ZENITH), Library 2, "Help & Information," file CEXPRT.ZIP (48,126 bytes). Shareware.

Bulletin Board System—MaxiHost, a small private BBS, useful for laptop owners to keep in touch with home or office. Powerful enough to handle multiple callers with various access levels. Can be set up and running in a few minutes. Zenith Data Systems Forum (GO ZENITH), Library 6, "DOS Applications," file MH0490.ZIP (219,585 bytes). Shareware.

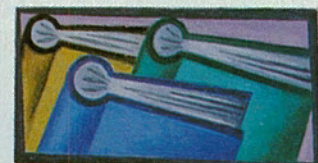
Auto Access—The Model 100's version of TAPCIS. Processes CompuServe forum messages and mail offline to reduce online charges. Model 100 Forum (GO M100SIG), Library 3, "Telcom," file EM8SIG.400 (13,611 bytes).

Terminal Program—Basic communications enhanced with XMODEM, external device support, online macros, split screen, access to TEXT and BASIC, and more. Model 100 Forum (GO M100SIG), Library 3, "Telcom," file XMDPW6.100 (11,318 bytes).

Communications Program—PPTERM for the HP Portable PLUS includes XMODEM. Works for CompuServe forums. HP Forum (GO HP), Library 3, "HP110-Portable Plus," file PPTERM2.ARC (61,444 bytes) or PPTERM.DBG (25,111 bytes). Documentation file PPTERM.TXT (9,654 bytes).

Portfolio Communications—First terminal program to support XMODEM file transfers for telecommunications and serial file transfers. Atari Portfolio Forum (GO APORTFOLIO), Library 2, "Communications," file XTERM2.COM (2,944 bytes).

Terminal Emulator—ACOM, a full-featured terminal emulator for the PORTFOLIO, with XMODEM transfers and screen scrollbar. Atari Portfolio Forum (GO APORTFOLIO), Library 2, "Communications," file ACOM11.ZIP (15,517 bytes).



Education

Time Traveler Game—The "magic" needed to overcome obstacles in this educational game are answers to progressively harder questions. The questions are about US history, but you can change them easily to cover any subject. Zenith Data Systems Forum (GO ZENITH), Library 7, "Fun and Games," file TIMTRV.ARC (119,331 bytes).

Battles Spreadsheet—A spreadsheet for programs such as Lotus 1-2-3, Quattro Pro or Excel, it gives benchmark data about historically significant battles. Zenith Data Systems Forum (GO ZENITH), Library 7, "Fun and Games," file BATTLE.ZIP (56,419 bytes).

ILLUSTRATIONS BY MICHAEL MCLAUGHLIN

from all over the globe. "I seldom carry a printer, because most hotels have business centers with plain vanilla machines," he adds. "I just keep the appropriate cable with me. Even hotels without printers have faxes, so I can save my file as an ASCII document, send it to myself via CompuServe Mail, and then get the equivalent of a 200 dpi printout delivered to me."

Hartmann and other savvy road veterans are happy to advise CompuServers about traveling with mobile office equipment. Following are tips derived from their comments concerning travel kits, customs/security checks, access numbers, using laptops on planes, different power supplies cost-effective log-ons and cellular phones—applicable to travel within the United States and abroad.

A noteworthy resource is *Mobile Office Magazine*, now online in Section 14, "Mobile Office," of the Consumer Electronics Forum (GO CEFORUM). The file LAPTOPARC by John Deakin, located in the Toshiba Forum (GO TOSHIBA), Library 4, "Text Files," also deserves special mention. It synthesizes data from several CompuServe sources on mobile computing, and answers some of the more common questions. Make this file your first download.



Graphics

Decode/Display Utility—A GIF87a decode/display utility for IBM and compatibles that have CGA graphics. Graphics Support Forum (GO GRAPHSUP), Library 3, "Decoders & Encoders," file TWOBIT.COM (64,240 bytes).

GIF Display—TGIF utility displays color GIF images on black and white displays. The GIF image is half-toned to produce images on plasma, LCD or CGA two-color displays. IBM Hardware Forum (GO IBMHW), Library 6, "Small Computers," file TGIF.ARC (32,336 bytes).



Leisure

Perestroika Game—Imported from Russia, with an English version of the Russian instructions. You have to restructure the Soviet Union while dodging obstacles such as party bureaucrats. Zenith Data Systems Forum (GO ZENITH), Library 7, "Fun and Games," file PERE.ZIP (178,696 bytes).

Maze Game—3-D maze with excellent graphics. Model 100 Forum (GO M100SIG), Library 5, "Games," file MAZE3D.BA (6,890 bytes).

Traveling Kit

"I've put together a roadkit that hasn't failed me yet with the aid of the TRAVEL.KIT file," says Curtis Peltz. Found in the IBM European Users Forum (GO IBMEURO), IBM Hardware (GO IBMHW) and IBM Communications Forums (GO IBMCOM) under "Help Files," TRAVEL.KIT details the tools and methods needed to coax a connection out of virtually any phone. For ideas on cases to haul your computer and other gear around in, check LAPCAS.THD in the IBM Hardware Forum's Library 6, "Small Computers." Also check TRAVEL.INF in the same library.

Adapters and Transformers

Most laptops have power supplies that switch (or can be switched) between the common voltages of 120V and 240V. If yours doesn't, get a 50-watt transformer. Avoid "universal" power adapters—they're for hair dryers, shavers and the like, not computers. See TRAVEL.KIT.

Airport Customs and Security

The evidence that X-rays affect floppies and hard disks is virtually non-existent. If you're worried, ask that your disks and laptop be hand-checked. It is also highly

unlikely that you'll have to remove batteries from your machine at the airport. In fact, keep your laptop's batteries charged so that, if asked, you can prove (particularly in Europe) that your computer isn't a bomb. If your machine is AC only, you'll have to locate an outlet—and have the correct plug adapter for that country handy. Also, some countries in principle require that you have a carnet (customs pass) for your equipment. Carry evidence of ownership and country of origin at the very least. See AIRPORT.ARC in Library 6, "Small Computers," in the IBM Hardware Forum.

On-board Use

Contrary to popular belief, computers apparently have no effect on a plane's navigation systems. "Operating a laptop in the air is still technically a violation," says JAL pilot John Deakin, "but so many computers have been used on board now that few people even raise an eyebrow." If the captain says power down, though, turn off your machine immediately—refusing can bring severe penalties. And in-flight cellular phone use is strictly forbidden. Note: For those wanting to use laptops on boats, in cars and elsewhere, try TRS-689, file 2 (TRS-1070).

(continued next page)

Space Shuttle Landing Simulation—Graphic display of horizon, landing area and runway approach. Model 100 Forum (GO M100SIG), Library 5, "Games," file SHTL27.100 (5,895 bytes).

Cribbage—A tough-to-beat implementation of the classic cribbage card game. Model 100 Forum (GO M100SIG), Library 5, "Games," file CRIBGE.BA1 (12,330 bytes).

Tetrad Game—Tetris-inspired game for the Portfolio. Atari Portfolio Forum (GO APORTFOLIO), Library 4, "Entertainment," files TETRAD.EXE and TETRAD.DOC (9,216 bytes).

Tetris-like Game—Similar to Tetris for the HP Portable PLUS. New version, simple to play, play at choice of speeds. HP Forum (GO HP), Library 3, "HP11—Portable Plus," file TETPLU.ZIP (19,129 bytes).



Personal Productivity

Block Cursor—CLAP, a small TSR (560 bytes) that allows control of pulsing speed. IBM Hardware Forum (GO IBMHW), Library 6, "Small Computers," file CLAP.ARC (2,372 bytes).

VIDTOG Utility—Toggles between the LCD display and an external monitor on the Compaq SLT/286. IBM Hardware Forum (GO IBMHW), Library 6, "Small Computers," file VIDTOG.EXE (2,619 bytes).

Archive File—Allows use of PC-DOS 3.2 on Toshiba laptop computers. Corrects problems with reading the correct

time of day, formatting and copying disks. IBM Hardware Forum (GO IBMHW), Library 6, "Small Computers," file READCL.ARC (5,120 bytes).

TOSHUTIL—Performs a number of functions on various models of Toshiba portable personal computers. Provides system information, allows displays to be toggled, cursor size changes and more. Toshiba Computer Forum (GO TOSHIBA), Library 2, "Toshiba Utilities," file TOSHUT.ZIP (9,446 bytes).

Windows/Resume—Allows Windows to run under Toshiba's AutoResume feature in enhanced 386 mode, leaving the computer in the same state when you turn it back on. Toshiba Computer Forum (GO TOSHIBA), Library 2, "Toshiba Utilities," file WINRES.ZIP (4,306 bytes).

Gas Gauge—Gives a visual indication of how much battery life your portable computer has left. Very useful on older Toshiba models that didn't have a built-in gauge. Toshiba Computer Forum (GO TOSHIBA), Library 2, "Toshiba Utilities," file GAS50.ZIP (13,662 bytes). Shareware.

Task Switcher—Back and forth utility allows running multiple programs and switching between them. Can increase productivity for laptop users on AC or battery power. Zenith Data Systems Forum (GO ZENITH), Library 4, "ZDS Forum Vendors," files BF171A.ZIP (198,663 bytes) and BF171B.ZIP (347,234 bytes).

Task Manager—Appointments, and reminders are handled with a unique user interface. Support programs handle various reports and utilities. Model 100 Forum (GO M100SIG), Library 4, "Applications," file TMPC.INF (7,075 bytes).

Outliner—Complete outline processor. Files can be imported/exported to other ThinkTank or Ready! compatible programs. Model 100 Forum (GO M100SIG), Library 2, "Text," file THINK.IT3 (8,365 bytes).

Log-on Logic

In the United States and its territories, the more than 800 direct-dial numbers are the easiest ways to access CompuServe. If you're traveling internationally, get a list of access numbers in the area you'll be in *before* you leave. The place to go? TAPCIS Forum, Library 6, "International," according to Jeff Gulliford, who is leader of that section and also a Travel Forum member logging on from The Netherlands. "There are files and folks there that can help you get connected from any part of the known universe," he says. GO QALOGON to access information on often-asked questions about logging on. Option 5, "Accessing from Overseas" is particularly helpful.

For European Telephone Access Numbers, GO EUROPHONES. For logon/logoff instructions, GO EUROLOGON. For network access information, GO LOGON. And for CompuServe's direct access numbers, GO TELEPHONE.

For more information, read MODEMS.ACC in Library 7, "Help Files," of the IBM European Users Forum.

A Bit About Modems

A 2400-baud, CCITT-compliant, MNP level 4 (or V.42 or V.42bis) modem with

error-correcting capabilities is the choice of most globe-trotting communicators. "Error correction is crucial when you have no idea how good the phone lines will be where you're going," says Charles Wangersky, a computer programmer based in British Columbia who also has worked in The Netherlands. Surge suppressors also come highly recommended.

Script-Reading Programs

Automatic access programs, also called script-reading programs, eliminate a lot of wasted time and money by automating the interaction between user and network. "I strongly advise getting one," says Wangersky.

About Cellular Phones

If you're thinking of taking your cellular phone to Europe, you may want to reconsider. "The phone system (PTT) varies from country to country, and each has different frequency allocations and software," says Wangersky. For a list of countries with cellular systems and the protocols used, see file CELPHN.TXT in Library 0, "General Interest," in the Travel Forum (GO TRAVSIG). If you'd like to use your cellular phone to transmit data from your laptop in the United States, CELLAP.TXT in Library 14, "Mobile Office," of the Consumer Electronics Forum

can tell you how.

Special Regulations

Certain countries are prickly about modem communications, "since it's considered a way a spy could send information," according to Hartmann. Such communications come under their security acts. Germany, for instance, requires that you have a modem permit, and can fine you and confiscate your electronic equipment if you're found using a modem without one. Check a country's current state of affairs online before you go.

A Few Words of Caution

Never risk your laptop in your checked luggage, the experts say, and choose an inconspicuous case that won't attract thieves. Also, check your homeowners' insurance: Does it cover the loss if your computer is stolen?

Finally, consider leaving your laptop at home if you're headed for a Third World country—confiscation of high-tech items is common in India, Pakistan and throughout Africa, even when the owner has all the required paperwork in hand.

—Douglas W. Jackson

Lapkey—Lets you choose your own cursor control keys on a laptop. Zenith Forum (GO ZENITH), Library 5, "DOS Utilities," file LAPKEY.ZIP (13,615 bytes). Shareware.

File Compressor—PKLITE compresses command files to save space while allowing them to run as usual. Zenith Forum (GO ZENITH), Library 5, "DOS Utilities," file PKL105.EXE (50,375 bytes). Shareware.



Other

Memory Utility—Operating system enhancement for the Tandy 200 that improves memory handling and the operation of the internal applications. Model 100 Forum (GO M100SIG), Library 10, "Tandy 200," file XOS-C.200 (5,917 bytes).

File Manager—Disk (Tandy Portable Disk Drive) manager with ability to compress and combine RAM files to disk. Works with Model 100/200. Model 100 Forum (GO M100SIG), Library 10, "Tandy 200," file PAKDOS.200 (7,835 bytes).

BASIC Interpreter—For the Portfolio, compatible with GWBASIC. Atari Portfolio Forum (GO APORTFOLIO), Library 8, "Programming," file PBAS40.ZIP (84,162 bytes).

ROM Bug Fixer—Installed in AUTOEXEC.BAT. Fixes many known bugs in the Portfolio's ROM-based operating system. Atari Portfolio Forum (GO APORTFOLIO), Library 3, "Utilities," file UPDATE.ARC (2,432 bytes).

PCRun Program—For the HP Portable Plus. Allows many programs written for the IBM PC to run on the Portable Plus by reconfiguring the Portable Plus console and redirecting certain video interrupts. HP Forum (GO HP), Library 3, "HP110-Portable Plus," file PCRUN.ARC (6,912 bytes).

Geographic World Clock—GEO clock emulates the Geochron World Time Indicator used by NASA, pilots and international corporations. Makes a laptop computer into a portable chronometer for serious travelers. Displays a map of the world or any specific region. Zenith Data Systems Forum (GO ZENITH), Library 6, "DOS Applications," file GEOCLK.ZIP (147,898 bytes) for EGA, VGA, SVGA; GEOCGA.ZIP (180,282 bytes) is the CGA version.

Geography Database—The Micro World Databank, a geographical database prepared for the CIA, can be used to add regional information. Zenith Data Systems Forum (GO ZENITH), Library 6, "DOS Applications," files MWDB0.ZIP, MWDB1.ZIP, MWDB2.ZIP, MWDB3.ZIP, MWDB4.ZIP, and MWDB5.ZIP.

Block Cursor—Changes Toshiba's underscore cursor to a block cursor for easier viewing. Toshiba Computer Forum (GO TOSHIBA), Library 5, "Other Utilities," file BC3.COM (234 bytes).

Vendor List—Supplies a detailed list of third-party vendors for Toshiba portable personal computers. Contains company names, products, phone numbers and more. Toshiba Computer Forum (GO TOSHIBA), Library 4, "Text Files," file 3PARTY.ZIP (52,698).

Back Light—Allows backlighting on computers to be turned off, yet use of the keyboard is still available. With Toshiba's built-in backlite off, the display "awakens" when a key is pressed. Helpful outdoors. Toshiba Computer Forum (GO TOSHIBA), Library 2, "Toshiba Utilities," file B-LITE.ZIP (507 bytes).

Forum Thread—Discussion of computing problems associated with airline travel including: X-ray inspections, security checkpoints, use of equipment while airborne and more. IBM Hardware Forum (GO IBMHW), Library 6, "Small Computers," file AIRPRT.ARC (32,286 bytes).

Case Histories—Description of situations where the use of a portable computer has aided business decision-making. IBM Hardware Forum (GO IBMHW), Library 6, "Small Computers," file PORTCS.TXT (6,110 bytes).

NEC Utilities—Various utilities for the NEC MultiSpeed and MultiSpeed EL. Fixes bugs, improves disk access saves battery life and makes the display more readable. IBM Hardware Forum (GO IBMHW), Library 6, "Small Computers," file MSUTIL.ARC (7,160 bytes).

On/Off Utility—Utility for turning on and off a Megahertz modem for an IBM convertible laptop. IBM Hardware Forum (GO IBMHW), Library 6, "Small Computers," file MPON.ZIP (2,365 bytes).

Small Utilities—Collection of 15-byte utilities that duplicate combinations for use in batch files or CED Sins. Control power management, CGA/MDA screens and more. IBM Hardware Forum (GO IBMHW), Library 6, "Small Computers," file POQUTL.EXE (3,601 bytes).

Travel Kit—Suggested tools and accessories for traveling with a laptop. IBM Hardware Forum (GO IBMHW), Library 6, "Small Computers," file TRAVEL.INF (4,533 bytes).

—Michael Naver

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To squeeze all you can out of every dollar you spend online, learn about the new Information Manager with "Quick Results on CompuServe." You'll see areas on CompuServe you may not know about. And learn to more effectively manage the ones you do.

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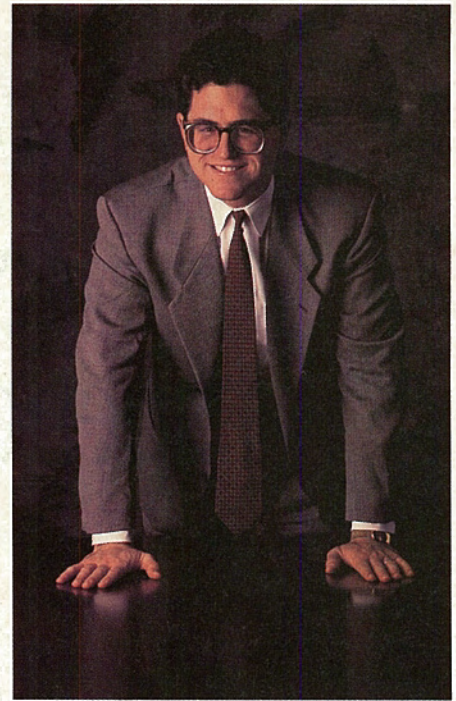
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► **Michael Dell's backroom hardware venture made it big by staying online and in touch with customers.**

It's a story straight out of a Horatio Alger novelette. Or maybe a Frank Capra movie, updated to the 1990s.

Jimmy Stewart, the wet-behind-the-ears college student, begins a mail-order PC business out of his dormitory room with \$1,000 in personal savings. In a few years, he's running an enterprise with hundreds of millions of dollars in sales. His name is plastered on zillions of PCs from here to Vladivostok. He takes on major computer makers, arguing the case for lower prices and better customer service until his voice becomes hoarse and raw. He becomes a man of the people. He wins the acclaim of magazines, newspapers and the electronic media. Stop action! It's a print!

But wait a minute. We're talking about Michael Dell, founder, chairman of the board and chief executive officer of Dell Computer Corp., not Jimmy Stewart. And Dell's life isn't a red, white and blue novelette or movie, although it certainly has the aura of one.

"The kid-in-the-dorm story isn't as fresh as it used to be," observes the now 25-year-old computer mogul from his Austin, Texas, office. "But it's still a great story."

Dell pioneered the now common practice

of selling personal computers through direct-response advertising. He started the company in 1984, personally building and selling computers out of his University of Texas dormitory room. By eliminating the overhead of computer stores, he managed to undercut the prices of such giant rivals as IBM and Compaq Computer and carve a solid and profitable niche for himself in the PC marketplace. Dell Computer's sales went from zero to \$69.5 million in three years. In 1990, the firm reported annual sales of \$546 million.

Today, Dell's brainchild is one of the 10 largest PC producers in the United States. Although the company built its reputation on selling good, no-nonsense computers at rock-bottom prices, Dell is now moving into the cutting edge of PC development. Its product line ranges from sophisticated notebook systems to desktop computers and workstations to powerful network file servers.

Michael Dell's interest in computers goes back to his junior high school days in Houston. "I was in an advanced math class, and we had access to a computer Teletype terminal. I used to hang around after school and figure out how it worked and write programs and send them away to the big computer and get answers back. I became fascinated with computers."

A few years later, Dell discovered online communications. After buying an Apple II and a 300-baud modem, he began tinkering. "I actually ran a fairly extensive national

COMPUTING SERVICES

CM's Computing Services Credo:

For those who call out for advice, answers, even mere companionship in a discomfiting computer world, we throw you the online rope that connects to the main. No man is an island unto himself. Herein the Control-G tolls for thee.

▼
The PC World by
Storm, from a Dorm

▼
Help Files, p. 28

CompuServe's Dell Central

On CompuServe, Dell Computer information and support is as close as PC Vendor Forum D (GO DELL).

The forum's Message Section 1, "Dell Computer," offers easy access to Dell's technical support staff. It also serves as a clearing-house for information on Dell products and services. In addition, Dell computer owners use the section as a place to meet, swap information and discuss their systems.

Member Dan Sachs recently used the section to ask a question about the battery in his Model 286-8 computer. "Can I get a backup replacement battery for my 286-8 locally or must this be ordered through you?" he inquired. John Batte, a member of Dell's support team, replied: "The 286-8 requires an AT computer battery between 4.5 and 7.5 volts. Any standard AT battery in the voltage range will work fine."

Clyde Muchmore needed help with his Model 316LT laptop system. "There was talk of a larger hard drive for the 316LT when I bought mine with 40 megabytes. It's now woefully inadequate for my needs. Can I get a larger hard drive from Dell?" The answer: Dell now offers a 120MB drive for its laptops.

The forum's Library 1, "Dell Computer," contains programs, fixes and other files that can help members get more use and better performance out of their systems. For example, file V70016.COM provides 16 color drivers for Windows 3.0. File DSA21.EXE is a package of Dell system analyzer utilities.

The forum also occasionally hosts online conferences with key figures in the world of Dell computing. Check the Conference Section of the forum's Announcements menu for details.

bulletin board from my home for about a year and a half and did a lot of development work on bulletin boards. I used to hang around on The Source and CompuServe."

Today, despite a schedule that includes long days at the office and visits to company sites around the world, Dell still manages to log onto CompuServe on a regular basis.

He spends much of his time online pondering the opinions of typical PC users. "I use it as a market research tool, really. I listen to what users say about different products—our products, competitors' products. It turns out also to be a good forum to talk with customers."

Dell's experiences with the online community gradually developed into a formal company support program. "It really became a support tool in which customers were asking, 'What about this?' 'Can you answer this question?' 'When is Dell going to have support here?' So more and more of our technical people started showing up and we started the forum." Dell Computer is now represented on CompuServe in PC Vendor Forum D (GO DELL). (See article above for more details on the forum and box on page 28 for a list of forum files.)

Although Dell enjoys the idea of having a company presence on CompuServe, he refuses to take complete responsibility for the action. "I certainly wrote a few electronic messages internally to prod the process

along, but I couldn't take full credit for it by any means. There have been plenty of people here who have participated on CompuServe for a long time. It just became an obvious thing to do."

Dell says the forum enhances his company's service policy, which is one of the industry's most extensive. In addition to the forum support, Dell also provides a toll-free telephone hotline, a fax service, its own computer bulletin board and a free year of on-site service.

"The reaction from users to the forum has been very positive," Dell notes. "Anything we can do to have closer interaction with our customers and provide better support, we're interested in."

In his spare time, Dell enjoys exploring other areas of CompuServe, and has more than 20 favorite places, including the IBM Hardware Forum (GO IBMHW), the Autodesk Forum (GO AUTODESK), the Novell forums (GO NOVELL) and the various Microsoft forums (GO MICROSOFT). He also delights in checking into his competitors' forums.

While Dell is quite active online, you'll rarely find his name signed to a message. "I guess I'm more of a 'lurker.' I do a lot of listening—it's a productive way to learn," he says.

When he's not running his company or his computer, Dell likes to spend time with his family. An aspiring triathlete, Dell rides 25 miles on his 10-speed bicycle in about an hour and 15 min-

utes. "We travel a lot for work and pleasure," he says. But his livelihood is never far away. "I bring my notebook computer with me at all times," he says.

Not surprisingly, Dell's favorite computer is a Dell computer. "The notebook is my take-it-with-me-everywhere-I-go computer," he says, referring to his Dell System 320N. The 20MHz 386SX-powered unit weighs a little more than 6 pounds. "At my desk I've



To the innovator go the spoils: Dell corporate HQ

Dell in Conference

Don't miss this chance to quiz Michael Dell when he holds conference Tuesday, August 13, at 9 p.m. EDT in the Convention Center (GO CONVENTION). Dell's topic is "An Inside Look at Industry Trends." He'll also discuss his company and answer members' questions.

got a 433P, which is our super-small '486-based 33MHz machine."

With no thought of an early retirement, Dell is looking toward the future. "We have active development projects that are along traditional technologies, and then we have longer-term projects such as user interface issues and pen-based computing. We spend a lot of time in the portable area and also at the high end, in the client/server field."

Despite the fact that CompuAdd, Northgate and several other mail-order firms are hoping to imitate his company's success, Dell isn't worried. Even the recent entry of such giants as Compaq Computer, Olivetti and Wang Laboratories into the direct-marketing field doesn't bother him.

"The old reason for our success was pricing," he says. "But price, I believe, only attracts a customer. What retains a customer is support and the quality of our machines. It's the overall value."

Dell doesn't view himself as a fluke.

COMPUTING SERVICES

Lucky? To a degree. Driven? Ambitious? Certainly. But he doesn't see himself as the touched-by-fate winner of an extraordinary lottery.

Dell thinks other brash individuals—including junior programmers—can still find success and wealth in the computer industry. For CompuServe users harboring dreams of financial fortune through pet hardware and software projects, he offers a word of advice: "Experiment."

"Most people forget that it's very easy to do small-scale experiments," Dell notes. "I think that's one of the best ways to figure out if you've got a viable concept. I've done experiments ever since I can remember. Marketing, technical, life experiments."

"So if you've got a product that you think is viable, go to your user group meeting and stand up and say, 'Hey, does anybody want to buy this?'"

It worked for Michael Dell.

John Edwards is a contributing editor of CompuServe Magazine. His CompuServe User ID number is 70007,412.

Dell Help Files

Looking for software that will help your Dell computer run better or more efficiently? Then check out these files in Library 1, "Dell Computer," in PC Vendor Forum D (GO DELL):

Clock Turbo—A clock utility for the Dell Turbo PC. File CLOCK.COM (2,432 bytes).

Utilities Turbo—A utilities package for the Dell Turbo PC. File TURBO (8,576 bytes).

Click 200—A program that disables the keyboard click on the Dell System 200. File OFFCLI.COM (128 bytes).

Mono Print 210—A utility that fixes printing problems on Dell System 210 computers equipped with a monochrome monitor. File 210MON.EXE (2,176 bytes).

Port 210—A program that enables and disables the serial ports on the Dell System 210. File 210SER.COM (1,408 bytes).

Speed Control 220—A bus speed control utility for the Dell System 220. File 220BS.COM (2,304 bytes).

Word Fix 220—A patch that fixes Microsoft Word 5 video problems on the Dell System 220. File 220VID.COM (10,240 bytes).

Bus 300 and 386-16—A utility that switches the Dell Systems 300 and 386-16 between 8MHz and 12MHz bus speeds. File BUS386.COM (2,304 bytes).

Cache Memory 310—A program that turns the Dell System 310's memory cache on and off. File 310CAC.COM (1,536 bytes).

Patch 316LT—A patch that allows Dell OS/2 1.1 to run on the Dell System 316LT. File 316LT (59,520 bytes).

Driver 316SX—An AutoCad driver that supports the 640 by 480 dot display mode on the Dell System 316SX. File DS640.COM (16,000 bytes).

GEM 316SX—Fixes GEM environment printing problems on the Dell System 316SX. File INT17.COM (2,048 bytes).

Video 316LT and 320LT—Provides automatic reverse video on boot-up for the Dell Systems 316LT and 320LT. File REVVID.COM (2,432 bytes).

Details Disclaimers & Legal Stuff

All entries are eligible to win a grand prize of **\$1,000** in connect-time.

- The entry form for this contest is one of the following:
 - a printed business card, designed by you, on which you have included your CompuServe Mail address. The owner of this business card will receive an entry award of \$10 in connect-time.
 - your regular, everyday business card which you have artistically modified to include your CompuServe Mail address (you crafty thing). The owner of this card will receive an entry award of \$10 in connect-time.
 - your printed business card on which you've simply handwritten your CompuServe Mail address. This is for those one or two CompuServe members who have no imagination, but who would like to win a prize. The owner of this business card will receive a **measly** \$1 in connect-time as an entry award.
- One entry per person, even if you have more than one job. Entry must consist of a business card, or 3" x 5" card (or whatever size you choose—we aren't keen on these pica-yune details), and must bear the CompuServe Mail address of the person named on the card.
- \$15,000 in CompuServe Information Service connect-time will be awarded. Awards will be determined by a panel of judges appointed by CompuServe, based on totally **PIEPOSTERUS** criteria which may change at any time and without warning according to our whim. Prize categories are:
 - the most original card—\$1,000 in connect-time;
 - the most professional looking card—\$1,000 in connect-time;
 - the most interesting card—\$1,000 in connect-time;
 - the card bearing a name we happen to like—\$500 in connect-time;
 - all professionally printed business cards bearing a professionally printed CompuServe Mail address—\$10 in connect-time per entrant;
 - all professionally printed business cards artistically modified to include a CompuServe Mail address—\$10 in connect-time per entrant;
 - all professionally printed business cards bearing a simple, handwritten CompuServe Mail address—\$1 in connect-time per entrant;
 - additional categories as determined by our panel of judges—whatever's left over.
- Prizes must be accepted as awarded. No transfers or substitutions will be permitted. It's our contest, and we can run it any way we choose!
- Entrants **MUST** be residents of planet **Earth** over 18 Earth years old, who are CompuServe members in good standing.
- CompuServe associates, their immediate families, suppliers, or agencies are not eligible for prizes. They get enough from us already. (Actually, we suspect most of our employees were disqualified in Rule 5.)
- Entries must be received by January 10, 1992, if you know what's good for you. This contest ends December 31, 1991 unless we decide to hold it longer.
- For complete contest details, GO CARDCONTEST. The rules are very boring, though, and hardly worth the trouble.
- This contest, like a lot of fun things, is void where prohibited by law. If there's anything illegal about this contest, we're terribly sorry. Our lawyers were too darned busy to approve the rules.
- Cheaters will be **FLOGGED**.

For additional details, GO CARDCONTEST.

Win FREE time on CompuServe when you put your CompuServe Mail® address on your business card.

That's right! Even someone as unlucky as you could win **\$1000** in free connect-time on CompuServe's information and communications network. That's because we're giving away thousands of CompuServe hours to well-connected people (like yourself) who send us a sample of their business card. Not just any old sample, mind you. But a sample that you've designed.

TO ENTER just take your usual, basic, boring business card (probably designed by a basic, boring person), and use it to create the card of your wildest dreams. Remember to include your CompuServe Mail address on it. Better yet, why not print up a few thousand of your own, original design? And send us one of those. That way, you'll not only impress the heck out of us and (possibly) win all sorts of **free** time on your favorite information service, you'll make yourself more accessible to the hundreds of thousands of CompuServe members worldwide.

After we've received zillions of cards from our zillions and jillions of members, our panel of purely subjective judges will award free time to the most original, the classiest, and the most professional. Why, you might even win free time if we just happen to like your name. Or if we think it's silly...and feel sorry for you. You know what?

Do A Number On Your Card.

We've even decided to give away a few bucks of free connect-time to everybody who sends in a card with their CompuServe Mail address on it. Call us generous, or call us crazy. That's just the kinds of folks we are. So quit dawdling! Send us that card as quick as you can and we'll start

Prizes!
Remember, it's got to have been designed by irreplaceable you.

And it's got to have your CompuServe Mail address on it.

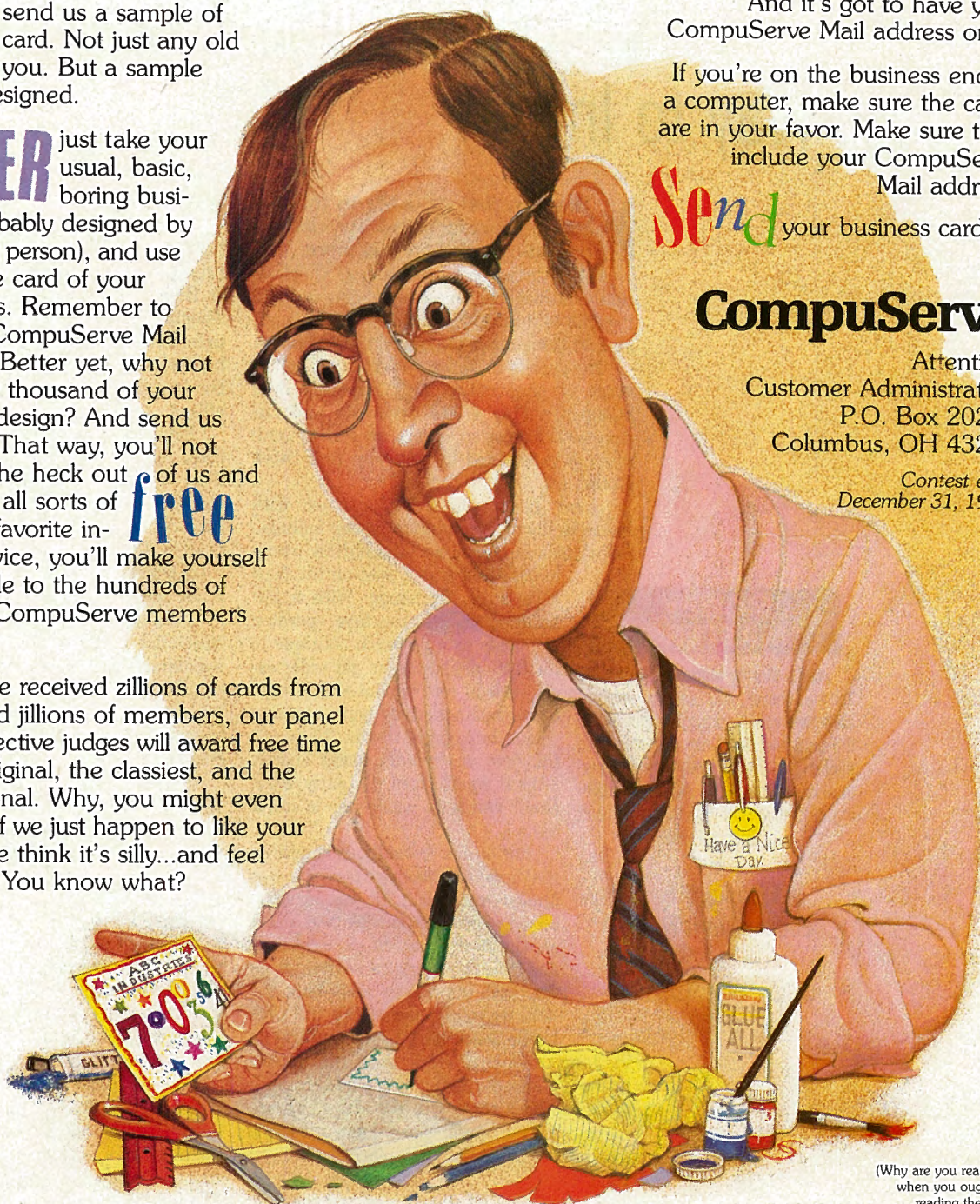
If you're on the business end of a computer, make sure the cards are in your favor. Make sure they include your CompuServe Mail address.

Send your business card to:

CompuServe®

Attention:
Customer Administration
P.O. Box 20212
Columbus, OH 43220

Contest ends
December 31, 1991.



(Why are you reading this when you ought to be reading the Rules?)



All in the family, and the discount brokerage business: Peter and Leslie Quick III

A Quick Way to Invest

► **The firm that gave life to the discount brokerage industry serves up online ordering and more.**

From its humble beginnings, Quick & Reilly has achieved success by being quick to respond to what independent investors want and, by being ready to change with the times.

The year is 1975. New York City is on the verge of bankruptcy. Wall Street is in a slump. On May 1, the Securities and Exchange Commission orders an end to commission rates fixed by the New York Stock Exchange.

Enter Leslie Quick Jr., partner with Kevin Reilly of a foundering money management firm in downtown Manhattan whose major asset was a seat on the New York Stock Exchange. With a few hundred clients, the firm operated primarily as a research boutique to institutions, hoping to get order executions in return. But the institutional business they were courting wasn't happening. Kevin Reilly left the firm on friendly terms shortly after it was formed. By early 1975, Leslie Quick Jr. was ready to call it quits.

For Quick & Reilly, getting into the discount brokerage business was almost an accident. "It was basically an act of desperation. We had a seat on the New York Stock Exchange and once the ruling came down from the SEC, the feeling was 'What the hell, we might as well try it,'" cites Leslie Quick III. "We ran our first ad

in June 1975 and since then the phones haven't stopped ringing. People were very intrigued back then with the idea of saving money on their commissions. I guess it was a matter of being in the right place at the right time."

Leslie Quick III is the eldest son of Leslie

Quick Jr. and one of four sons at the helm of Quick & Reilly's expanding operations. He has been with the firm since 1975 and is president and chief operating officer of Quick & Reilly Group Inc., the parent company. Thomas Quick who joined the firm in 1977, is president of Quick & Reilly Inc., the discount brokerage company, and is responsible for the operations of Quick & Reilly's 69 branch offices.

Peter Quick joined the company in 1983 after serving in the Navy and is now president of US Clearing Corp., the company's clearing subsidiary since 1979 when it acquired Cowen & Company, a back office operation. US Clearing Corp. not only executes all of Quick & Reilly's trades, it handles back office operations for 114 other customers.

Christopher Quick is president of JJC Specialist Group, another Quick & Reilly subsidiary since 1982, the result of another acquisition. JJC currently makes markets on 99 issues and is the fourth largest market specialist for issues handled on the New York Stock Exchange.

After the firm's initial success in 1975, Quick & Reilly opened a second office in January 1976, in Palm Beach, Fla. "There was a firm about to close an office there and the manager asked us if we wanted it for six months," remembers Les III, "and we said we'd give it a try." By March of that year the new branch office was swarming with customers. "There were, in fact, so many people that the manager had to actually get up on a desk to get everyone's attention, herd them out of the office, and then take care of them one at a time."

The stampede of customers continued for the next decade. "From 1975 to 1986, customers just basically ran in the door. Getting business was kind of a no-brainer. We just had to stick an ad in the paper," notes Les III. "Things have gotten a little more sophisti-

MONEY MATTERS

CM's Money Matters Credo:

To the casual and serious investor alike, we vow to provide sanity when the bulls and bears run wild; indeed to explain and inform. Where money matters, we'll provide the means of attaining discretion and thus the better part of financial valor.

▼
A Broker That
Broke Out a Niche

▼
Quick*Way Tutorial,
p. 32

Q&A on Q&R: Investors' Forum Files

How do you best use a discount broker? Find out from information that has been compiled by the experts—practiced investors—in the Investors' Forum (GO INVFORUM) in these library files:

Quick & Reilly 1991 Discount Commission Calculator computes commissions for stock and options trades. Library 1, "Stocks/The Market," file QUICK.ZIP.

Using a discount stockbroker. Library 1, "Stocks/The Market," file SPEAR.CO.

Answers to technical questions about Quick & Reilly's Quick*Way discount

online brokerage services, order types and the system's bookkeeping capabilities. Library 1, "Stocks/The Market," file QIKWAY.CO2.

How to pick a stockbroker. Library 15, "The Novice Investor," file PIKBRO.THD.

How to handle unsolicited broker sales calls. Library 15, "The Novice Investor," file COLD.THD.

Your rights as a brokerage customer. Library 15, "The Novice Investor," file RIGHTS.THD.

cated in terms of marketing, particularly since the crash of 1987. We're no longer just order takers. We're a lot more proactive in letting people know we're here, that we can save them money and offer them the same service (excluding investment advice) as their full-service broker."

In fact, Quick & Reilly offers a full spectrum of investment choices, including tax-free municipal bonds, insured CDs, precious metals and mutual funds. The firm also offers a free Total Cash Management service that provides free check-writing, an insured money market fund and monthly statements. To the degree that the company offers investment advice, it can be found in a newsletter that tracks 200 NYSE stocks that have moved 50 percent in value, whether up or down, in the previous year. "It gives investors a place to start their research," says Les III. The company also issues a list of stocks that have increased their dividends every year for at least the past 10 years, for investors who are interested in safety and dividends.

"Our biggest challenge is to show individual investors that buying and selling stocks doesn't have to be intimidating," he adds. "If you've done your own research and know what you want to buy, it's not a complicated process."

Linking Up with Quick*Way

In May 1985, Quick & Reilly decided to tap into a new market by launching Quick*Way (GO QWK), a PC order-entry system that offered customers a way to transact business online. "We had a few clients that wanted it and with the increasing popularity of home computers, it seemed like the right thing to do," notes Les III. "And CompuServe, with its compatible client base, was a great way to do it. We originally set it up as a branch (in Palo Alto) and it has grown to be one of our larger branches, and a big growth area for us."

"With Quick*Way, we were able to fill a growing need," says Tom Quick, who is responsible for its operation. "People, we noticed, no longer were working a strict 9-to-5 work schedule. They needed a way to place orders at any time of the day, and in the convenience of their home or office."

Quick*Way users can place stock, bond, options, mutual fund orders and more as they would with their broker. Orders placed after business hours are reviewed promptly the next morning and forwarded to the exchange for execution. A confirmation can appear on the user's screen, sometimes within minutes, depending on the type of order and when it is received. (For help on how to use Quick*Way, see the top of page 32.)

Since introducing Quick*Way, the cash-

rich company has been on a slow but steady course of acquiring smaller discount firms that have suffered since the market slowdown.

As far as Quick & Reilly's reputation on Wall Street, from day one of the SEC ruling there was antagonism. While most full-service brokerage firms lowered their commission rates for institutional clients after the SEC ruling, Quick & Reilly was the first New York Stock Exchange member to offer discount rates to individual investors. But even as most of the Wall Street establishment scoffed at Quick's tactics, nicknaming the firm "Quick & Dirty," many firms fol-

lowed suit and the industry found its niche.

Today, there is grudging acceptance of the discount brokerage industry, where revenues now account for 20 percent of the individual investor market. "Full service brokers are very respectful of the business we've captured over the past 16 years," says Les III.

As for 1991, Quick & Reilly is having a record year. "In fact, February and March have been record months for us," says Tom Quick. "In March, we traded more per day than in any other time in the company's history."

Jenifer Rueff is a free-lance business writer based in Chicago.

NOW...ON-LINE TRADING THROUGH QUICK & REILLY...



USE ANY PC, ANY MODEM.

...one of the largest discount brokers. ★ NO start-up charges.
★ NO monthly subscription charges. ★ Ultra-low commissions.

With Quick & Reilly's easy-to-use QUICK WAY on-line 24-hour brokerage service...

- You can have from one to 75 trading accounts with NO start-up or monthly subscription charges.
- You also get big savings on commissions.

COMPARE	100 sh @ 40	300 sh @ 30	1000 sh @ 20
QUICK & REILLY.	\$49	\$81	\$109
Charles Schwab*.....	49	96	129
Merrill Lynch.	97	230	373
Shearson Lehman. ...	91	275	437
Paine Webber.	100	205	424
Dean Witter Reynolds. .	95	195	424
Prudential Bache.	104	211	421

*Standard phone order. (Telephone Survey 2/91)

- You can get quotes on any stock, option or market index listed in the Wall Street Journal.
- You can place orders in minutes, day or night. Reports are sent back on-line, followed by written confirmations.

- You can monitor, on a single screen, the prices of up to 18 stocks. (You can similarly monitor options.)
- You have instant access to Standard & Poor's Reports, Value Line Data Base II, and 10 years of market data on some 50,000 securities.
- And, any time you wish, you can bypass your computer and get *personal service* from an individual QUICK WAY Account Executive.
- Securities held in your account are protected up to \$2,500,000.

For complete information plus an on-line demonstration and application for QUICK WAY—type GO QWK. Or call 800-666-7972/Ext. 5101 and ask for QUICK WAY.

Quick & Reilly
MEMBER NEW YORK STOCK EXCHANGE • SIPC INC.

120 Wall Street, New York, NY 10005

GO OLI for more information.

The Right Way to Use Quick*Way

Quick & Reilly's Quick*Way is an electronic means of managing your stocks and options. You can track market indexes and place orders.

To use Quick*Way you must open an account with Quick & Reilly; GO QWK to do this and select menu Option 5, "Open a Quick*Way Account." If you want to see how the system works before opening an account, access the interactive, online demonstration (Option 7, "Demonstration of Quick*Way").

Quick*Way is a menu-driven system that prompts you for all responses. Each area of the system is assigned a number, which is outlined in the main menu:

- 1 MAIN MENU
- 2 CHANGE PASSWORDS
- 4 SET UP A GAME ACCOUNT
- 9 HELP
- 10 PRICE MENU
- 20 ORDER MENU
- 30 PORTFOLIO MENU
- 40 RECORDS MENU
- 50 INFORMATION MENU
- 60 ANALYSIS
- 70 NEWS MENU
- 0 EXIT QUICK*WAY

Pay attention to these numbers—they're important. For instance, all transactions related to ordering stocks are on menu 20. To get there, type 20 at the prompt. All items related to stock and option orders begin with a 2 as shown on this menu:

- 20 ORDER MENU
- 21 STOCK ORDERS
- 22 OPTION ORDERS
- 29 HELP

To move around Quick*Way efficiently, you need to know the basic menu structure and the functions of each area. The Utility menus (which are numbered 0 to 9) offer basic system information.

The Price menus (10) can be used for price quotes on stocks, options and commodities. Real-time prices are available to Quick*Way users, but monthly exchange fees are involved. Professionals in the investment industry may subscribe to Last Sale (or real-time) stock prices for \$73.50 per month, or pay \$137.90 per month for stock and options prices. The exchange fee for non-professionals, for both stock and options prices, is \$30 per month. Those who do not

wish to pay an exchange fee receive prices delayed at least 15 minutes.

Use the Order menus (20) to place, change, buy and sell orders for stocks and options. The questions asked during order entry are the same ones a broker would ask you. They are easy to understand and to answer. Orders can be placed any time, day or night and are immediately transmitted. You will receive confirmation of the order when it is executed.

The Portfolio menus (30) allow you to set up and review your portfolio in three different ways: in detail, in summary with dividends, and in unrealized gains and losses. Up to 75 portfolios can be created.

Use the Records menus (40) to review your trading and tax records for the previous two years.

To send and receive messages to and from your broker, use the Information menus (50). You also can get security symbols from this area, which you will need to know to enter any stocks or options. You can look up stock symbols on Menu 521 and options symbols on Menu 523. Just type the appropriate menu number at any Quick*Way prompt.

FREE CONNECT TIME AVAILABLE

You're only
two seconds
away from a
\$20,000
opportunity.

Two seconds. That's all it takes to enter GO SEC and discover all the advantages of Private Reserve, an unsecured, no-fee credit line from Security Pacific Executive/Professional Services.

GO SEC today. You'll quickly discover a financial opportunity that's second to none.



Security Pacific Executive/Professional Services

GO OLI for more information.



Whatever Happened to...

You've kept in touch with a few friends, but whatever happened to the rest of your old classmates? With the class reunion just a month away, you still can't locate half of them. Aside from calling all over the country, what more can you do?

Call on Phone*File. We have the names, addresses, and phone numbers you need — over 80 million records covering the entire United States. With Phone*File, locating old classmates will be as easy as thumbing through your own address book.

Phone*File

On the CompuServe Information Service, type GO PHONEFILE

GO OLI for more information.

Help information is easy to find and well-written. Type 9 to receive general help, and for help that is specific to a certain Quick*Way area, type 9 preceded by that area's menu number. For instance, if you want help on placing stock and option orders, type 29, because the Order menu number is 20.

Becoming an efficient user of Quick*Way requires you to understand the menu structure. If you want a stock price, where do you go? Prices are item 10 on the main menu. Type 10, and on the next menu, you see 11 is stock prices. Type 11, and you learn that 113 is for a single stock price. (For price help, type 19.) The menus fit together, one into another much like a Russian "matriushka" doll. Here is the Price menu, which you get by selecting 10 from the main menu:

- 10 PRICE MENU
- 11 STOCK PRICES
- 12 OPTION PRICES
- 13 COMMODITY CONTRACT PRICES
- 14 FUTURES OPTION PRICES
- 15 MARKET OVERVIEW
- 16 TRANSFER STOCK AND OPTION WATCH
- 17 COMPOSITE PRICES
- 19 HELP

Select 11, "Stock Prices" and this sub-menu appears:

- 11 STOCK PRICE MENU
- 111 STOCK WATCH
- 112 STOCK ORDER WATCH
- 113 SINGLE STOCK PRICE
- 114 ADD STOCKS TO STOCK WATCH
- 115 RENUMBER STOCKS IN STOCK WATCH
- 116 DELETE STOCKS FROM STOCK WATCH
- 117 CHANGE STOCK WATCH LIMITS
- 19 HELP

Once you get accustomed to the Quick*Way menu structure, you can bypass some of the menus by typing in the direct numerical command. For instance, if you know you want to check on the stock price of your latest acquisition, just type 113 at the first prompt to go directly there. Quick*Way prompts look like this:

*** TYPE NUMBER TO SELECT

Should you get lost or confused, just press the Return key at a selection prompt and you'll automatically return to the main menu where you can start over.

The real advantage of using Quick*Way is the ability it offers to place stock and options orders any time of the day or night. For instance, if you want to buy or sell a partic-

ular stock after it reaches a certain price, you can do that without having to constantly monitor the market during the day. Just leave instructions on Quick*Way that the stock should be sold for you once it hits a certain price, and the order will automatically be executed.

Here's an example of the online ordering process. Type 211 to buy or sell stocks:

211 BUY OR SELL STOCKS

—Portfolio: Ima Example

—Type CTRL/C to Escape

—Portfolio: QR0084-0002

AB-001-00000

(N)ew Order, (C)hange Former Order

or (I)f Nothing Done Order...

Order Type: (N,C,I) N

Stock SymbolTDM

TANDEM COMPUTERS INC

Closing Price is.... 14 1/8

(B)uy or (S)ell S

Short Sale: (Y,N) N

(C)ash or (M)argin Account

Account (C,M) M

Number of Shares 100

Price: Your Limit or (M)kt. 14 3/4

(G)TC or (D)ay Order D

Password GOBUCKS

You have 100 uncommitted shares in your Margin Account

You have ORDERED the following:

Portfolio....QR0084-0002

AB-001-00000

Stock SymbolTDM

TANDEM COMPUTERS INC

(B)uy or (S)ellS

Account Margin

Number of Shares 100

Closing Price..... 14 1/8

Price: Your Limit or (M)kt. 14 3/4

Type of OrderDay

Name ... Ima Example

WARNING: YOU ARE ENTERING A FIRM ORDER.

Is this ORDER Correct: (Y,N)..... Y

Updating records—Please wait.

Order placed at 07:21 AM EDT 4/18/91

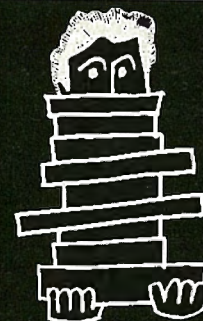
—The market is closed. Your order will be entered at the opening of the next trading day.

Order again in this Portfolio: (Y,N)N

*** TYPE NUMBER TO SELECT

Quick*Way carries a surcharge in addition to regular CompuServe connect time of \$14/hour during the day and \$4/hour in the evening. There is no sign-up fee.

—Cathryn Conroy



Buy Books? Save up to 80% GO BN

Barnes & Noble offers you the lowest prices, largest selection and quickest delivery of quality publisher's overstocks, hard-to-find imports, exclusive reprints plus CDs, cassettes and videos. How big are the discounts? Up to 80%!

To check out all the bargains (History, Reference, Literature—you name it!), use the command GO BN.

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GO OLI for more information.

TYPE "GO PW"

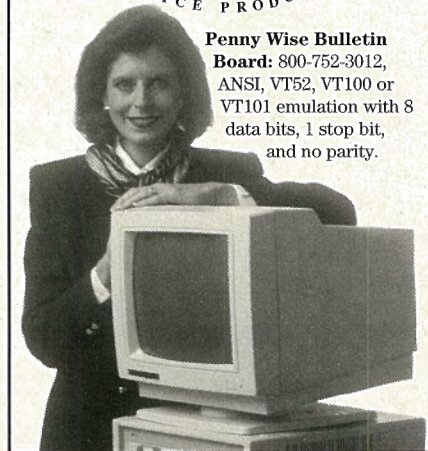
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Penny Wise Bulletin

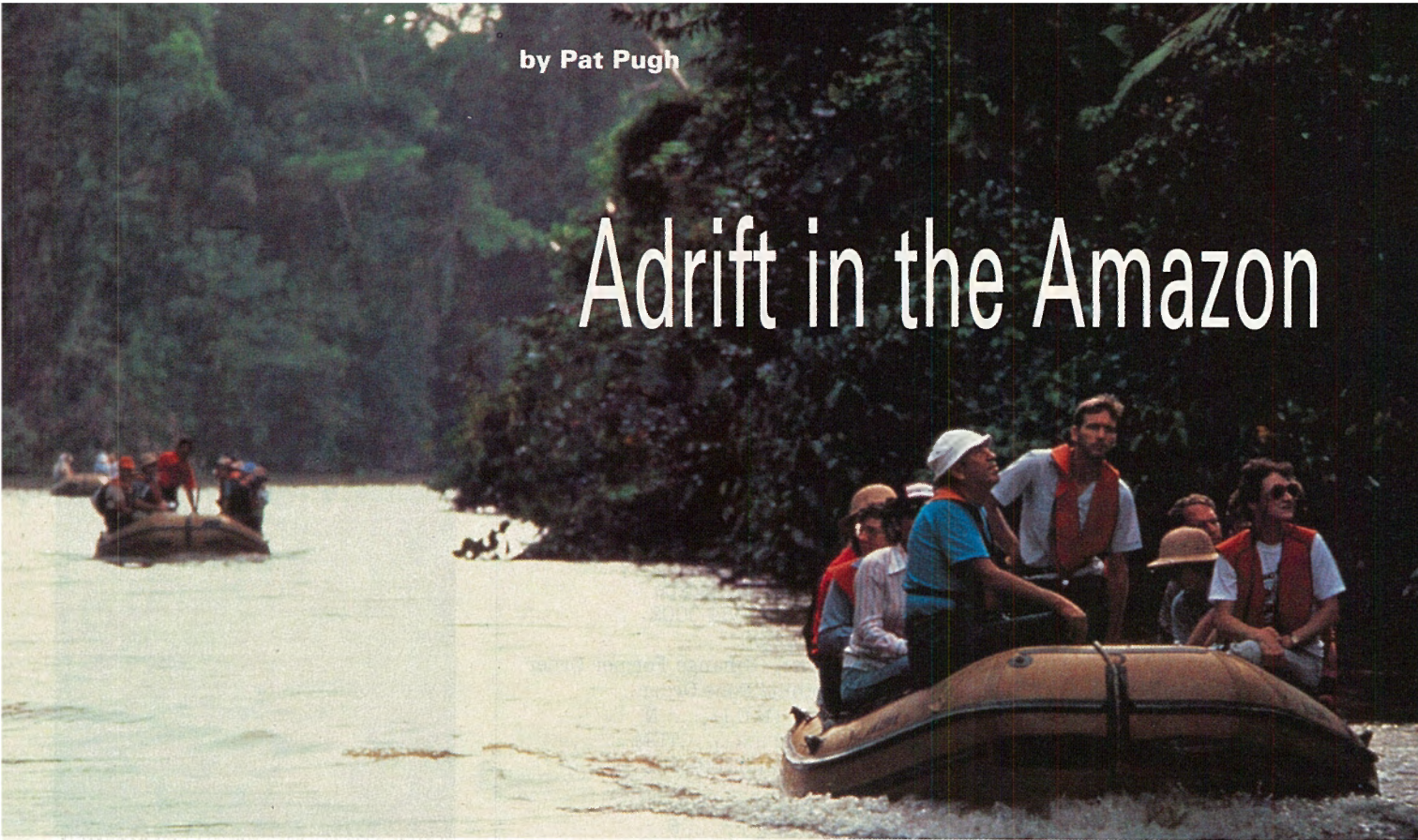
Board: 800-752-3012,
ANSI, VT52, VT100 or
VT101 emulation with 8
data bits, 1 stop bit,
and no parity.



GO OLI for more information.

by Pat Pugh

Adrift in the Amazon



Spend the day exploring in an inflatable Zodiac and pass the night in the lap of luxury: Amazon adventure

TRAVEL

CM's Travel Credo:

Bring us your tired, your weary, your forlorn spirits and we pledge to ship you out to London, Tokyo, Budapest, maybe even a Wyoming dude ranch. Lengthy luxuries, quick-hit getaways and memories guaranteed.

▼
Jungle Fever
on Board the
Adventurer

▼
CIM-plified
Travel Plans, p. 37

► Traverse tropical rain forests and experience jungle life from the comfort of a luxury liner.

The engines stopped. "Where are we?" I asked, not fully awake. "It's Tuesday, it must be Brazil," my cabin companion replied.

Barbados, Trinidad in the bag. The Orinoco River had just come up, with the Amazon, Manaus and Devil's Island remaining.

We were cruising the Caribbean and the coast of South America, visiting nine exotic destinations in 16 days. No endless moving from hotel to hotel, no need to unpack or repack. The newly commissioned expeditionary cruise ship *M/S Society Adventurer* was our hotel, and the advantage it afforded was a chance to turn our dreams into reality: Natural history—up close—via a series of memorable shore explorations.

The *Adventurer* is one classy yacht. At 395 feet, she cruises the Caribbean like a sea nymph, doing 17 knots with the wind at her back. With a crew of about 50, passengers never want for anything, but it's no floating cabaret either. The *Adventurer* is a seven-deck learning center complete with "hands on" laboratory, whale and marine sounding equipment, microscopes and aquariums.

It's easy to imagine that Columbus would

have willingly traded his *Niña*, *Pinta* and *Santa Maria* for a single berth on such a sleek ship. After all, who can resist exploring islands and rivers in a manner such luxury lovers as Cleopatra and Helen of Troy would have envied?

The unique concept of such a cruise begins with specially designed ships for versatility far beyond the capabilities of conventional liners. These yacht-like vessels are built with bow thrusters, shallow drafts and hardened hulls, enabling them to glide easily over coral reefs or penetrate the packed ice of the Hudson Bay. And each carries a number of Zodiac landing craft to navigate confined stretches of river or explore remote beaches. Yet, on-board comforts are first and foremost, with stylish lounges and dining rooms presenting a pleasant ambience.

Society Expeditions' trips appeal to small adventure-cruise aficionados. Its three ships—*Society Adventurer*, *Society Explorer* and *World Discoverer*—may be giant yachts, but they're small enough to nose into ports and places that the big buckets can only sigh for. With carefully planned itineraries, organized down to the last detail, an SE discovery trip differs from conventional cruising as it allows participating rather than just observing. Our days ashore occasionally involved journeying via Zodiacs to explore hidden creeks and tributaries. On others, such as in Brazil's Rio Tapajos lagoon, you can enjoy the delights of swimming and water skiing in the

deliciously warm water close to the boat.

A visit up the Amazon to Manaus, nestled in the wilds of the jungle, is like gazing on the city of Oz. Its elegant and gilded Teatros Amazonas opera house, built in 1896 during the rubber boom, is in stark contrast to the surrounding lowland landscape of corn, manioc, bananas and yucca.

The Amazon is a place of startling statistics. According to the *Adventurer's* briefing manuals, the river and its tributaries, some of them longer than the Mississippi, contain two-thirds of the world's river water. Sailing on a voyage of discovery through a region like this is, to say the least, exciting and fascinating at the same time. And not without a few modest hazards, such as having the heavens open up during on-site lectures, accidentally sliding into the water when landing a Zodiac, or getting an insect bite.

What can't be absorbed during shore safaris is provided by lecturers illuminating the vast reaches of a mysterious land. Naturalists, historians and explorers in their own right, the specialists lead interesting and challenging discussions and slide shows on various experiences encountered while on Zodiac forays. These foremost authorities on the Amazon region—such as biologist John Harwood and botanist David Oren—bring insight to exploring the vast region.

Experiencing the exclusive jungle landscape sandwiched between multicourse gourmet meals obviously doesn't come cheap. In a lesser-organized tourist area such as South America, where good-natured confusion, language and high-spirited excitement prevail, it is certainly simpler, however, to depend on mobility to see more in a shorter period and in a relaxed manner.

Almost everyone will agree that the single most appealing quality of taking a cruise is the variety of interesting places visited, not to mention the waist-expanding portion of shipboard life. But what is it like to take a South American adventure cruise, an expedition by water to a world of magic and mystery yet in a drug-free, safe environment? What follows is a recounting of one journey:

It began in Miami with a flight to the enchanting Caribbean island of Barbados. Toasting the first evening aboard ship with other passengers was an event in itself: When the last sliver of sun dips below the horizon at this equatorial location, there is a sudden flash of green fire that lasts but a second before the world around you is pitch black.

Trinidad. With our guides we motored via Zodiac up the Caroni River at sunset to



WANDA HENLEY

Churning past an Amazon passenger ferry: Zodiac foray

witness hundreds of long-beaked scarlet ibises returning to nest in the mangrove trees. A brilliant spectacle!

Orinoco River. As our Zodiac nosed into this formidable estuary, we all felt engulfed by the jungle. For a fleeting moment, a shiver. We marveled at a variety of macaws and spider monkeys. The highlight of the day was joining a special air-safari to Angel Falls, the world's highest waterfall. The spectacular sheer rock face drops almost a half-mile from the flat-topped Auyan-Tepuy, setting for W.H. Hudson's novel *Green Mansions*. We landed at Canaima National Park

and hiked to the base of Hacha Falls to swim before returning to the ship.

Devil's Island, French Guiana. Exploring was done by Zodiac, as the penal colony is positioned on tiny islets. The cells were overgrown with vines, but we got the idea of what life must have been like as a prisoner in this desolate place.

Amazon River. The entrance to this mighty rain forest brought silence and a sense of awe to those assembled on deck. Jubilant cries of "look there, among the submerged trees" brought everyone to the rail as pink river dolphins frolicked beside our boat.



The comforts of a cruise liner, plus-bow thrusters and a hardened hull: *Society Adventurer*

First Port: Travel Forum

Sysops and travel experts Jerry Schneiderman and Sandy Elson will host an online cruise conference in the Travel Forum (GO TRAVSIG) Monday, Aug. 19, 10 p.m. ET. Topics to be discussed will include how to pick the right cruise line, how cruise lines differ, how to book a cruise at the lowest possible price and what do to at Caribbean ports. In addition, Schneiderman and Elson will be available for prompt replies to questions every day in Message Section 14, "Cruises."

A Line-up of Cruise Info

Whether it's the bright sights and sounds of Rio de Janeiro or the peaceful escape of gazing at the midnight sky on a canal cruise, you can plan your South American or other cruise adventure online with CompuServe's diverse travel resources.

ALL CRUISE TRAVEL

Cruise the Panama Canal with a number of packages that range in price from \$1,690, a flat rate special on the *Island Princess*, to nearly \$18,000, which will get you a deluxe penthouse with a veranda on the *Crystal Harmony*. Ports of call vary with the individual cruise line, but include Acapulco, Bermuda, St. Thomas, San Juan, St. Croix and more. You can even take a Panama Canal Christmas cruise on the *Golden Odyssey* for \$2,773, departing on Dec. 20. Available in the Official Airline Guide Electronic Edition (GO OAG). Select Option 9, "Cruises," on the OAG main menu; Option 1, "All Cruise Travel," on the Cruises menu; and Option 7, "Panama Canal" on the All Cruise Travel Destination menu.

THE MARKET PLACE

You'll find discounts on a wide variety of cruises to many world areas, including several of Mexico's hot spots, such as Puerto Vallarta, Mazatlan, Cabo San Lucas and more. Prices range from a low of \$895 on the *Bermuda Star* to a high of \$1,716 on the *Holland America*. Some of the cruise lines, including Carnival, offer a \$50 discount for using OAG. Select Option 9, "Cruises," on the OAG main menu; Option 2, "The Cruise Marketplace," on the Cruises menu; and then Option 7, "Mexico" on The Cruise Marketplace Destination menu.

CRUISESTAR WORLDWIDE CRUISES

Spend Thanksgiving in Rio de Janeiro or Buenos Aires on an

11-day Renaissance Cruise where you'll visit such exotic locales as Cozumel, Cristobal, Punta Arenas, Puerto Madryn, Nueva Palmira, Punta Del Este and more. Select Option 9, "Cruises," on the OAG main menu; Option 3, "CruiseStar Worldwide Cruises," on the

Cruises menu; Option 2, "Destination Area," on the CruiseStar menu; then Option 28, "South America," on the CruiseStar Destination menu.

SEA BREEZE CRUISES

Go round-trip from Montego Bay to Ocho Rios, the Panama Canal, Puerto Moin and Grand Cayman at discounted rates starting from \$984 per person on the *Regent Star*. Select Option 9, "Cruises," on the OAG main menu; Option 4, "Sea Breeze Cruises," on the Cruises menu; and then Option 7, "Mexico Riviera," on the Sea Breezes Destination menu.

BAREBOAT CHARTER CRUISE

Get back to nature and shun the creature comforts of a cruise line on a bareboat charter. You can find personal accounts of bareboat adventures in the Sailing Forum's (GO SAILING) Library 4, "Cruising Grounds." Use the key word BAREBOAT to locate files on such exotic locales as Guadeloupe (GUADEL), Grenada (GRENAD.TXT), St. Lucia and the Grenadines (XXX), US Virgin Islands (USVIGB.TXT), British Virgin Islands (SAILBV.ARC, BVICRU.DOS, GOVAC.TXT, BV12.TXT) and more.

CRUISE REVIEWS

If you want to find out what a cruise is really like, check out the many cruise reviews in the Travel Forum's (GO TRAVSIG) Library 14, "Cruise Reviews." Search by the destination location for revealing reviews written by traveling CompuServe subscribers.

—Cathryn Conroy



Along the Amazon: Ticuna Indian

reviews in the Travel Forum's (GO TRAVSIG) Library 14, "Cruise Reviews." Search by the destination location for revealing reviews written by traveling CompuServe subscribers.

Occasionally a blanket of brilliant butterflies darted between heavy-scented orchids. We were so close to the bank that it was possible to closely witness the passing parade of native river life. To most of us, before this trip was made, Brazil appeared a far-off exotic land teeming with jungles, spicy foods and primitive people. We fast became geography-wise and were astounded by the friendliness of the Caboclos Indians, a community built atop the remains of a pre-Columbian village.

Rio Negro. This largely unexplored area of the country is fascinating. Witness the Wedding of the Waters—an unbelievable phenomenon unless you see it first-hand. A cream-colored Amazon runs beside the coffee-colored Negro, without the waters mixing. Further on, at Tres Bocas, there were hundreds of tiny atolls to discover.

Passengers traveling with Society Expeditions can expect first-class facilities:

beauty salon, fitness center, gift shop, library, laundry, swimming pool, medical center, closed-circuit TV, air conditioning, a lecture hall and satellite telecommunications system including telephone and fax.

A European-trained chef prepares each meal, which is served in a single open seating with good wines and champagnes laid in for each voyage. Staterooms and suites (everyone gets a window) are outfitted with twin or king-size beds, a private bath, individual temperature control, safe, television with VCR, refrigerator, ample storage and a sound system.

The 17-year-old cruise company traverses seven seas and some 35 countries in Canada, the British Isles, Europe, Africa, Asia, South America and Antarctica. Many trips focus on the culture of a particular region. SE South American voyages take place in September and October, springtime in the southern hemisphere. One 16-day itinerary sails from

deep in the Amazon Basin to Rio. Tour prices range from \$4,000 to \$10,000 per person, and include most extras and all shore excursions. For a descriptive 102-page illustrated catalog of cruises, contact Ambercrombie & Kent International, marketing partner for SE, at 800/323-7308.

For cruise-planning resources on CompuServe, see the top of this page. Delta Airlines is the leading carrier to South Florida cruise ports from most US cities. For flight information, check online in the Official Airline Guide Electronic Edition (GO OAG), Eaasy Sabre (GO SABRE) or Travelshopper (GO PARS).

Classic exotic travel is the South American cruise, when roughing it usually is far from rough.

Pat Pugh, a free-lance travel writer based in Houston, is special features editor for The Dallas Times-Herald.

Your Ticket to Easier Travel Planning

If you have CompuServe Information Manager (DOS version 1.3 or Mac version 1.5), you can make flight reservations worldwide with Travelshopper (CIM), a new consumer interface that increases user control of the system. Travelshopper (CIM) provides access to WORLDSPAN, the world's third-largest reservation system.

Travel features included in the new interface allow members to gather information about fares, schedules and connections and to review data along the way. Unlike the one-way nature of the current ASCII version of the flight schedule services, Travelshopper (CIM) offers the opportunity to step back and forth through assembled information for each leg of a journey as an itinerary is planned.

The new software also includes some value-added functions, such as the "Fares" option from the Flights screen. (To get to the "Flights" screen, select the "Flights" option off the "Destination" screen.)

When asked for fare information, the service currently displays all fares, even those you are unqualified for due to dates, times and class of travel. Travelshopper (CIM), however, makes smart choices and zeros in on available fares that fit the parameters of the highlighted flight.

The "Pricing" option breaks fares down into categories, such as "lowest available fare" and "lowest available fare without penalty." Restrictions for each highlighted fare are displayed with the "Rules" option. The "Personal Profile" option improves the reservations process by keeping your choices on file. This means you aren't prompted for ticketing preferences, such as having the ticket sent by mail or picking it up at the airport, each time you make a reservation.

In addition, the "Search Criteria" option allows you to narrow flight selections, and thus save time, by filling out a preference list off the top menu. Preferences include maximum connections, maximum stops, preferred airlines and fare class. This option eliminates the need to re-enter the information every time a new flight search is made.

People who have used online reservation services for years probably are accustomed to seeing screens of codes for everything from classes of travel to inflight meals. While some users have adapted themselves to automatically translating the codes, thousands of others back away from these powerful information resources because the codes seem too complex.

The Travelshopper (CIM) solution is to display the data as simply as possible. And that means it is capable of speaking to us in a new, more accessible language: English.

Flights for
NEW YORK to TRINIDAD
Sun Aug 25 1991

Type	Departure	Arrival	Airline	Stops	Plane	Seats Available
Connect	JFK 4:20P	TDD 2:40P	PA/LB/LB	4	72S/72S/727	Yes
Connect	JFK 5:00P	TDD 2:40P	PA/LB/LB	4	72S/72S/727	Yes
Connect	LGA 3:36P	TDD 2:40P	CO/LB/LB	4	733/72S/727	Yes
Connect	EMR 3:38P	TDD 2:40P	CO/LB/LB	4	72S/72S/727	Yes
Connect	LGA 1:15P	TDD 2:40P	DL/LB/LB	5	72S/72S/727	Yes
Connect	LGA 11:45A	TDD 2:40P	CO/LB/LB	4	72S/72S/727	Yes

Buttons: Select, Detail, Fares, Cancel

WORLDSPAN Travelshopper

Fl=Help Ctrl+L=Leave Alt+X=Exit F2=Save As F4=Print ←=OK Esc=Cancel

User-friendly graphic displays: Travelshopper (CIM)

FAST DEAL

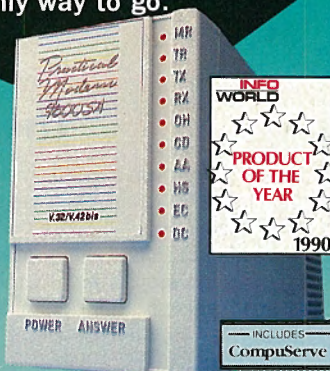
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GO OLI for more information.

Casing the Countdowns

▶ **Soviet space watchers are using CompuServe to maintain close encounters with USSR launches.**

They put the first man in space—and the first woman, the first dog, the first satellite, the first anything. They did the first space walk, built the first space station, and gave the world its first look at the moon's dark side. "They" are the Soviet Union.

PERSONAL BUSINESS

CM's Personal Business Credo:

It's our business to help you achieve your personal best. Wise consumer. Time watcher. Intricate researcher. Savvy politico. Grown-up kid. You've got the need, we've got the gear; it's all right here.

▼
Dogging *Glasnost*
into the Ionosphere

▼
Using Phone*File, p. 40

▼
12 Steps Up from
Addiction, p. 42

In spite of its stellar accomplishments, the Soviet space program has had its own dark side. Kremlin-dictated designs meant death on re-entry for three cosmonauts crammed into a one-man capsule, and death on the ground for scientists hurrying to test a flawed rocket. Kremlin paranoia erased from photoarchives the faces of cosmonaut trainees who washed out, and kept from the public the very name of their program's chief designer, Sergei Korolev.

The only way to find out what was going on in Moscow has been to snoop. So it is that a small army of amateur space detectives in the West quietly searches technical journals, monitors shortwave broadcasts, downloads satellite photos and trades clues about the Soviet system.

Sam Ricks, a former long-haul truck dispatcher, and Tom Roach, an aerospace computer consultant, do their scouting by shortwave. They specialize in "tracking the trackers"; i.e., monitoring radio, teletype and fax communications to and from the ships that serve as the Soviets' orbital tracking network. Originally built to monitor missile test launches, these ships now move around the globe, monitoring orbital changes and spacecraft re-entry.

By hooking up shortwaves to their personal computers and downloading cryptography software and orbital path information from CompuServe forums, the team can decode the transmissions to and from the six tracking vessels as they are deployed, often giving them weeks of advance notice of a key space event. The whole process is simple enough that they have been able to scoop the press on at least one occasion.

"People had been expecting that *Mir* and *Salyut 7* space stations would go co-planar soon, and be in the same orbit," Ricks explains from his Villas, New Jersey home. "I knew that *Salyut 7* was dropping, so I put a simulator on the computer and looked for orbital conflicts. I found that *Mir* and *Salyut 7* were on a collision course.

"A signal was sent by the Soviets to boost *Mir*, putting its orbital path on a 20-minute delay, enough to avoid a collision. Since they

The Right Stuff to Launch Your Sleuthing

These will get you started tracking Soviets in orbit. No need for Morse code; there's plenty you can do with binoculars, a computer or even the naked eye.

- ▶ Detailed background material on the Soviet tracking ships and instructions on picking up their transmissions; they've even included enough Russian to get you started. CCCPV3.TRK, Library 5, "Amateur Satellites"; MONITO.TXT, SOVMON.PT1 and SOVMON.PT2, Library 3, "SNL Library," HamNet Forum (GO HAMNET).
- ▶ Satellite tracing programs, telling what's in which orbit. Feed the data to your computer or simply go outside and look for *Mir*. TRKSAT.EXE, and SATVU.SIT, Library 7, "Astronomy Software," Astronomy Forum (GO ASTROFORUM).
- ▶ There's a schedule of Radio Moscow broadcasts, word processors and scientific/technical dictionaries here. SHORTW.RUS, RUSS30.ARC, RUSWP5.2 and GLOSSA.EXE, Library 5, "Slavic/E. European," Foreign Language Forum (GO FLEFO).

- ▶ This calculator helps plot the distance and bearings of tracking ships steaming toward their target positions. GCDIST.ARC, Library 3, "Navigation Station," Sailing Forum (GO SAILING).
- ▶ Detailed technical specs on the *Mir*, *Buran* and the Soviet rocket fleet. MIRKVA.TXT, SOVSTS.TXT, BOYUZ.TXT, SOVIET.RKT, ENRGYA.TXT and three *Buran* files in Library 12, "Foreign Space Programs," Space Forum (GO SPACEFORUM).
- ▶ If you just like pretty pictures, download these snapshots of North America, courtesy of a Soviet weather satellite. NEMETE.GIF, M1128.GIF and GRTLKS.GIF, Library 10, "Graphics," Astronomy Forum (GO ASTROFORUM).
- ▶ Finally, see IQUEST (GO IQUEST) for Soviet Aerospace & Technology, updated weekly to keep up-to-date on plans to launch the next generation *Mir*, Martian probes or the *Buran* space shuttle. The Soviet news agency Tass typically announces news of a political nature, including plans to launch guest cosmonauts.

usually move the *Salyut* and not the *Mir*, I knew that this meant *Salyut 7* must be out of control."

It was indeed. *Salyut 7* burned up in orbit over Chile in February 1991.

To Roach, who publishes a Soviet-watchers' newsletter, the payoff for his labors isn't in watching Soviet hardware hit the dirt, but in understanding the system and the players. "To me the real benefits are in learning about the people; making them more human," he says. "You can learn geography and about commercial shipping and fishing. You learn how bureaucratic their system really is. It's dull and stodgy, and that works against them."

Soviet-watcher Dennis Newkirk, who has written a book, *Almanac of Soviet Manned Spaceflight* (Gulf Publishing, 1990), is working on two more and consulting with Time-Life Publishers. "I use CompuServe as a security blanket, to be in touch with the outside world," he says. "But I also use it for all the utilities and tools. I get on the Astronomy Forum (GO ASTROFORUM) regularly to download the satellite elements (tracking data) for *Mir*. I'm trying to use them to observe a rendezvous and docking. Last year I saw the *Kristall* module's upper stage; another CompuServe user verified my identification." Based in Fairfax, Va., Newkirk



Keeping up with the cosmonauts: Newkirk

STEVE THOMAS

also sends electronic mail messages via CompuServe's linkup with Internet, browses the Slavic section of the Foreign Language Forum (GO FLEFO), and checks out the viewing times for the NASA Select TV channel on the Space Forum (GO SPACEFORUM).

For those without a shortwave, Newkirk suggests downloading satellite elements for

Mir or the American shuttle and going outside for a little of your own watchdogging. A space station the size of *Mir* can be seen as what looks like a moving star without any viewing aids at all. With binoculars you can actually witness crew activities (though you won't spot the crew themselves). "I read in an old *Sky & Telescope* that somebody had watched a garbage dump with just a pair of binoculars," Newkirk says. "I saw a shuttle water dump once and it was really spectacular. I also saw a shuttle launch as it came up the East Coast and was able to see the main engine cut off."

Space watchers are predicting another busy year, and the Soviets average more than six launches a month. Despite hard times, they are sticking with their plans to put the first Briton and the first Austrian in orbit and maybe even fly a cosmonaut in their new *Buran* shuttle.

The Soviets also plan to do something that *might* put Western detectives out of business (though we're not betting on it): opening selected launch sites and control centers regularly to foreign tour groups. When that happens, you'll see it on the Travel Forum.

Maura J. Mackowski is a free-lance writer based in St. Louis.

Scanners: Static-Charged Sound and Fury

Much larger than its cadre of Soviet-watchers is HamNet's crew of people-watchers. Right now, forum members who specialize in scanner radios are finding themselves a lot more controversial than their shortwave and ham counterparts. The reason? They can listen not just to ships and shuttles but to *you*—in your car, your kitchen, even your bedroom.

Scanners can pick up cellular phones, cordless phones and even the nursery monitor that listens while baby sleeps. Stories of scanners picking up private conversations, business deals and adult bedroom activities crop up in the news and even in forum message threads. Mix this controversy with equal parts of hubbub over scanning law-enforcement frequencies and you have a good idea of the furor that sometimes reigns in HamNet's Scanners Section. Is the Federal Communications Commission going to ban the reception of frequency bands restricted to law-enforcement users? Will the FBI crack down on owners who listen in on private telephone conversations?

Not as far as we could tell from several calls to Washington. That doesn't mean, though, that CompuServe members aren't up in arms at even the hint of tighter controls.

The whole debate is a smoke screen, Sam Ricks, a former long-haul truck dispatcher,

believes. "The controversy over scanners eavesdropping on baby monitors and phones is really just a gimmick to sell scanners," he says. "The real controversy is scanner censorship."

HamNet Files to Scan

Browse HamNet's Library 2, "Scanning Library," to find the radio frequencies of Illinois McDonald's restaurants or the Arizona forest service, and window shop for scanners by downloading product reviews and specification write-ups.

If you want to maximize your radio's reach, these one-of-a-kind library offerings can help you do just that:

- ▶ Tips on monitoring military satellites, including how to build an antenna. File MILSAT/binary or MILSAT/TXT.
- ▶ Want to buy a used scanner? Here's what you'll need to know before you make a deal. File USEDSC.TXT.
- ▶ Dozens of European radio stations that operate via satellite and how to pick them up. File SATRAD.TXT.
- ▶ Frequencies for cable and other TV broadcasters so you'll never have to miss your favorite reruns. File TVAUD.TXT/binary.

Moving to restrict access to certain police and fire department bands, Ricks says, would limit the appeal of scanners among people who make up the "hard-core" scanner users. You can't sell scanners if people can't listen to police and fire department calls, so they try marketing a different angle: eavesdropping.

"Few people bother to monitor cellular calls, cordless phones or baby monitors," he says. "It's too boring."

Browsing the HamNet message boards tends to bear Ricks out. Forum members are much too busy listening to Air Force One, railroad engineers, space shuttle astronauts, air-traffic controllers, press vehicles, military inflight refueling operations and the Secret Service to sit by a scanner and hope for some heavy breathing.

Aerospace computer consultant Tom Roach, for instance, tunes in on helicopter pilots and the Navy's Blue Angel flight demonstration team. "Their voices sound strange as they pull g's," he says, "very clipped and tense." On the ground he settles back to listen in on air-traffic controllers and one of his favorites, airline ground crews. "I like to listen to what they say about the passengers at the ticket gates—and some of the lies they tell about schedules and luggage."

—MJM

Where've They All Gone?

► Phone*File lets you ferret out lost family and friends quickly.

New York City may have 7 million residents, but tracking down a single lost soul in the middle of Queens isn't impossible. Just ask Nancy Thalblum.

A genealogy buff, Thalblum realized that one of her best sources of information was her father. But as the child of divorced parents, she hadn't seen him since late 1982. Thalblum used the Phone*File database on CompuServe to track down her uncle in Elk Grove Village, Ill., only to find that the brothers also had lost touch.

With thoughts that her father could be dead or lost on the streets of New York City, Thalblum almost panicked. Instead, she got creative. Cleaning out drawers one day, she discovered a letter her father had sent her years earlier. It contained a return address.

Knowing of her father's aversion to telephones, Thalblum figured he wouldn't have one of his own. So again, using Phone*File, she ran a search of a common last name—Smith—to try to find someone who lived in the same Queens apartment building as her father.

"Paydirt! I got the name and phone number of someone who lived in the building for 15 years," she says. The elderly woman she called assured her that her father was well and did in fact still live there. The neighbor even posted a note on the man's door telling him his daughter was searching for him. He called the next day. "It was a very happy ending," says Thalblum.

Phone*File, available on CompuServe, is a fast, efficient and convenient national phone directory that includes name, home address, telephone number and length of residence for nearly 80 million US households. You can use it to update your holiday card list of friends and associates who might have moved during the year or to track down classmates for the next high school or college class reunion. Phone*File is also an excellent genealogical tool that can replace hours of laborious library searches.

Information for the database is obtained from thousands of sources of public record and published information, including newspaper birth announcements, real-estate transactions as listed by local court houses, voter registration data, state motor vehicle administration data, telephone white page directories and more. The length of residence is determined by the number of years a

household record remains unchanged on the Phone*File database. Individuals who have an unlisted telephone number are not published in Phone*File.

The Phone*File database can be searched in a variety of ways, all of which require that you know something about the individual you are looking for, such as a name or a telephone number—the same information you would need to search a printed telephone or city crisscross directory.

For instance, you can search Phone*File by the individual's name and address to find a telephone number, like this:

PHONE*FILE—NAME/ADDRESS
SEARCH

You will be prompted to enter a Name, Street Address and City, State, and/or ZIP Code for the person you are searching for.

Enter person's name (E.G. John Smith)
Or <CR> to proceed or /HELP:
Cathryn Conroy
Enter Street address (E.G. 2110 N
Magnolia Ave) OR/HELP
1234 Main Street
Enter City/State and/or 5-Digit ZIP
Code (E.G. New York, NY 10019 or
New York, NY, or 10019)
OR /HELP: Anywhere, OK 22222

Are the following correct?
1 Name: CATHRYN CONROY
2 Address: 1234 Main Street
3 City, State: Anywhere, OK
4 ZIP Code: 22222

Enter the number of the item to
change or press <CR> to begin
Search!

One moment please, searching...

PHONE*FILE-NAME/ADDRESS
SEARCH CRITERIA

Name: CATHRYN CONROY
Address: 1234 Main Street
City, State: Anywhere, OK
ZIP Code: 22222

SEARCH RESULTS MICHAEL J
CONROY
1234 Main Street
Anywhere, OK 22222
555/555-0000
Spouse: CATHRYN
Length of Residence: 06 years

Or you can search geographically by name with the ZIP code, city or state, like this:

PHONE*FILE—SURNAME SEARCH

You will be prompted to enter the geographical area and the last name of the person you are searching for.

Enter Type of Geographical Search...

1 By City and State
2 By State Only
3 By ZIP Code
Enter Choice! 1

Enter City (Max 20 characters): Anywhere

Enter 2-Character State abbreviation: OK

Enter the person's Last Name (MAX 15): Conroy

Are the following correct?

1 Last Name: CONROY
2 City: Anywhere
3 State: OK
4 ZIP Code:

Enter the number of the item to
change or press <CR> to begin
Search!

PHONE*FILE —SURNAME SEARCH
CRITERIA
Last Name: CONROY
City: Anywhere
State: OK
ZIP Code:

One moment please, searching...

PHONE*FILE has located 4 households for this Search criteria. Press <CR> to display surnames one screen at a time or enter "S" to SCROLL!

Last Name: CONROY MICHAEL J
AND CATHRYN 555/555-0000
1234 Main Street
Anywhere, OK 22222

Finally, you can search Phone*File by telephone number, like this:

PHONE*FILE —PHONE SEARCH

You will be prompted to enter either an Area Code or ZIP Code, then the Phone Number.

Enter either a 3-Digit Area Code or a 5-Digit ZIP Code: 555

Enter a Phone Number, including the dash (E.G. 123-4567): 555-0000

Are the following correct?

1 ZIP Code:

2 Area Code: 555

3 Phone Number: 555-0000

Enter the number of the item to change or press <CR> to begin Search!

PHONE*FILE—PHONE SEARCH CRITERIA

ZIP Code:

Area Code: 555

Phone Number: 555-0000

One moment please, searching...

PHONE SEARCH RESULTS

MICHAEL J CONROY

1234 Main Street

Anywhere, OK 22222

555/555-0000

Spouse: CATHRYN

Length of Residence: 06 years

If, like Nancy Thalblum, you want to search for a "Smith" in a large city, be sure to find out as much information as you can about the individual, including street address, ZIP code or even telephone number. Supplying Phone*File with just one such piece of information makes your search easier, faster and more accurate.

If you're searching for an individual who lives in the suburbs of a large city, use the correct city name. For instance, use Lakewood, Ohio, rather than Cleveland to guide a search.

Phone*File carries a surcharge of \$15/hour (or 25 cents/minute) in addition to regular CompuServe connect-time rates. The average search costs about 50 cents, making it competitive with the telephone companies' directory assistance, which usually costs about 75 cents per query. But unlike using the telephone company, you can retrieve a full address with Phone*File as the well as name of the person's spouse and length of residence. In addition, if the only information you know is that your long-lost childhood buddy now lives in California, you may have to call telephone directory assistance for all of the state's 10 area codes to find the phone number, while Phone*File requires only one search.

When your Phone*File search is completed, you receive a statement online of your estimated connect time and surcharge.

Phone*File is available Monday through Friday from 7 a.m. until 2 a.m. E/T, Saturday from 7 a.m. until 11 p.m. and Sunday from 10 a.m. until 8 p.m.

To access Phone*File, GO PHONEFILE.

Cathryn Conroy is a contributing editor of CompuServe Magazine. Her CompuServe User ID number is 70007,417.

Phone*File's Privacy: No Worries

As computerized databases of directory information flourish, issues of personal privacy protection are raised. People do have a right to remain anonymous and not have their telephone number and address published.

To this end, CompuServe and MetroNet, the producer of Phone*File, have taken a number of precautions to minimize potential abuse of Phone*File information.

- ▶ If you have requested that your telephone number be unlisted in your local telephone directory, then your name, address and telephone number will not appear in Phone*File.
- ▶ Phone*File users cannot conduct a nationwide search for an individual by name. For instance, you cannot find all the Conroys in the United States with a single search. Instead, you would have to conduct 50 state searches.
- ▶ Phone*File requires that you know something about an individual, such as the name and state of residence, to retrieve the remaining information.

▶ Because the information on Phone*File was compiled through publicly available sources, there are no connections to credit or financial information. Social Security numbers are not included, making it impractical for credit issuers to use the database for their purposes.

▶ It's not likely that Phone*File will be used to create mailing lists. There are less expensive and more efficient ways to do this than through individual name searches. For generating large lists, Phone*File is not cost-effective.

▶ If you prefer that your name not be distributed to any of the thousands of computerized directory databases that now exist in the United States, you can write a letter to the Direct Marketing Association (1101 17th St., N.W., Suite 900, Washington, DC 20036) requesting that your name be removed from their listings. This request will be distributed to all mailing list creators who are part of the Direct Marketing Association.

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Type GO HLTDB at any ! prompt on CompuServe, ZiffNet, or ZMac to find just what you're looking for.

Information Access

COMPANY

GO OLI for more information.

Overcoming Obsessions

► Success is measured one step at a time in online support groups.

For most of her life, food addict Gail K. tried to make amends for her eating binges by dieting, fasting, undergoing hypnosis and entering therapy. Weight didn't *sneak* up on her an ounce at a time; instead, she packed it on and starved it off in 100-pound rotations. Depending on her cycle, she was a compulsive eater or a compulsive dieter. In either case, she never weighed the same amount two days in a row.

That is, until she got with the program.

"When people ask how I found out about Overeaters Anonymous, I say, 'A friend in Texas told me,' because it was someone on CompuServe who logged on from Texas," she explains. "I went to a local OA meeting and felt as if everyone was telling my story. It's

amazing how similar the backgrounds are."

Also similar are the backgrounds of persons hooked on addictive agents other than food—alcohol, drugs, gambling and work. To bolster her recovery effort, Gail began attending online Alcoholics Anonymous meetings in Section 2 of the Health and Fitness Forum (GO GOODHEALTH). Since OA's program is based on AA's 12-step recovery process, she found that members of the AA fellowship spoke her language ... with a few word changes. Recovering alcoholics admit in Step 1 that they are powerless over alcohol, whereas "we substitute the word 'food' for 'alcohol,'" she says.

Although the semiweekly AA sessions and the weekly OA conferences are not meant as substitutes for what section leader

Dan K. calls "warm body" meetings, they serve as enhancements to OA and AA recovery programs. In some cases they are important first steps for persons who fear local meetings where they might be recognized, in spite of AA's tradition of using only first names and last initials.

"More than a year ago a woman came into the forum and asked for information about alcoholism for her husband, a problem drinker," recalls Dan. "She sat in on our AA conference to learn more about the program from our group. It turned out that Sandy J. was the alcoholic, not her husband, and that she had been reluctant to attend face-to-face meetings. A gal from Florida and a guy from Washington 'talked' to her and encouraged her to go to AA in her area. She did, and now she's chairing a beginners' group. She's doing beautifully."

Since recovery is a never-ending process and abstinence is achieved one day at a time, online AA members call their group "One Byte At A Time." Anniversaries that mark years of individual sobriety are celebrated without fanfare and are viewed by the alcoholic not as a finish line but as a pit stop where progress in the program is assessed.

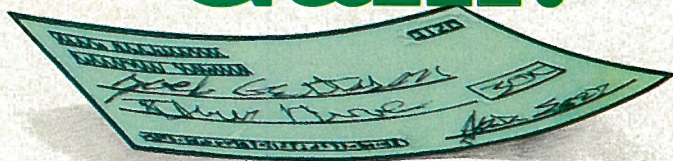
"Some people can put down a drink and walk away from it," explains Dan, who achieved five years of sobriety on April 7. "Through the 12-step recovery process we not only stay abstinent, but we learn how to live sober. We clean house, get rid of the wreckage of the past, make amends for the harms we've done, and then we go on and try to share the program with others. Without the 12 steps we may stay *chemically* sober, but the steps give us spiritual and emotional sobriety."

Persons prone to addiction sometimes recover from one compulsion only to replace it with another. Alcoholics stop drinking and start smoking; overeaters curb their appetite for food and step up their capacity for work. Dan calls this "trading insanities," and recommends the same 12 steps for relief. At a time when a glut of recovery literature offers cure-all prescriptions from doctors and tell-all memoirs from celebrities, AA remains a simple remedy with more than 50 years of tough field-testing behind it. (For help files about addictive behavior, see resource box on page 43.)

"A lot of the new stuff is a replay of old tapes," says Dan. "The tendency is to have

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people live in the past by saying, 'It's my parents' fault'; 'I'm a product of my environment and I have no contribution in this'; or, 'I have to go back and relive my life in order to understand it.' This approach is a way out—a softer, easier way of admitting that we're alcoholic. I'm from the school within AA that believes in tough love. I was abused as a child, but I can't go back and relive it because I endured it once and it made me sick for many, many years. Now I want to get on with things and learn how to live today and accept responsibility for the present."

His belief in the 12 steps is shared by insiders and applauded by outsiders to the program. Allan Stevens, manager of the Health and Fitness Forum, has watched the online group grow and calls it "an all-or-nothing fellowship" whose members pull no punches in describing their personal battles

with addictions.

"Members have told me that they tried everything else before they saw the path to recovery," says Stevens. "With the help of AA, individual burdens are shared by those who care. If a person slips, he gets back up

because success is measured in daily steps—one at a time."

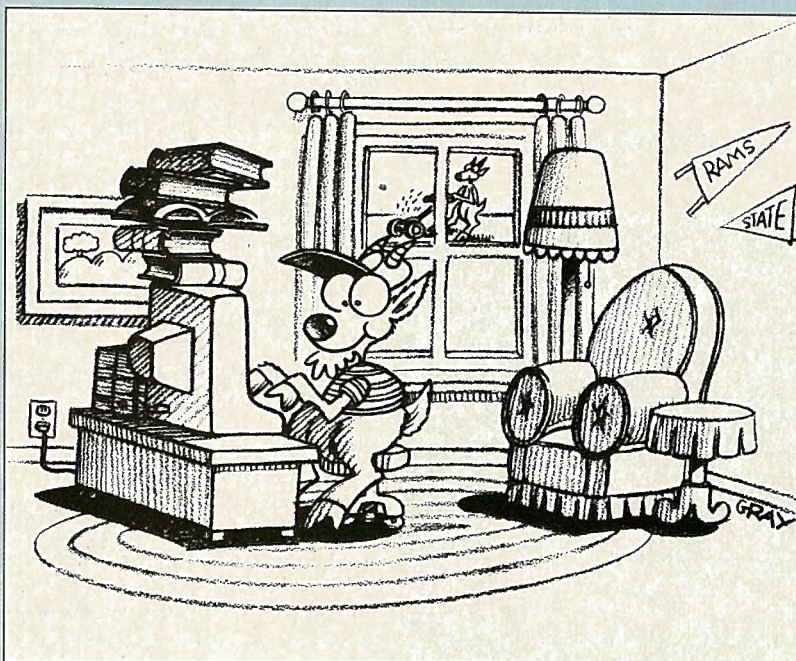
Holly G. Miller, a free-lance writer and college professor from Anderson, Ind., is a contributing editor of The Saturday Evening Post and Indianapolis magazine. Her CompuServe User ID number is 70007,2345.

Resources for Recovery

One out of 12 drinkers eventually becomes alcoholic, says Chuck H., a recovering alcoholic, active member of One Byte At A Time, and a professional substance abuse counselor. Yet, he adds, most of these people know little or nothing about the disease that is 100 percent fatal if left untreated.

To boost awareness and introduce the 12-step recovery process, section leaders recommend seven files in Library 2 "Substance Abuse/AA," of the Health and Fitness Forum (GO GOODHEALTH).

- ▶ Written by an online AA member with 20 years of sobriety to his credit, HABITS.TXT explains how negative habits can expand to life-threatening addictions. The file includes AA's 12 steps.
- ▶ Besides offering six "truths" about the mysterious disease, ALCO1.TXT and ALCO2.TXT debunk excuses used by alcoholics to justify their drinking, depicting alcoholism as a trap.
- ▶ Food binges are symptoms of eating disorders, according to the 15-question quiz contained in OVREAT.TXT. Affirmative answers to three or more questions indicate food addiction.
- ▶ Newcomers to Section 2 can preview online gatherings by reading AA4.TXT, a transcript of a typical AA meeting, or JAN-21.OA and JAN-28.OA, edited versions of two OA discussions. Section leaders say the best way to experience online support groups is to attend a "live" session. One Byte At A Time convenes Sundays and Wednesdays, 9:30 p.m. ET; OA meets on Mondays at 10 p.m. ET.



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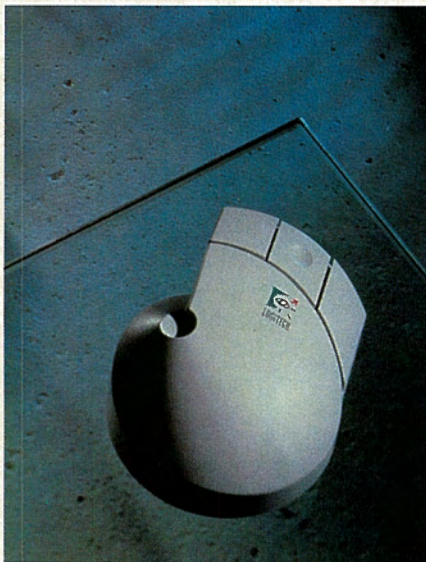
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Following are summaries of hardware and software reviews available for reading this month in *Online Today*. To read the complete reviews, type GO OLT-200 at any CompuServe Information Service prompt.

For additional *CompuServe Magazine/Online Today* reviews published during the past two years and illustrations of reviewed products, refer to the key-word-searchable buyer's guides in Libraries 5 and 6 of the OLT Forum (GO OLTFORUM). Use Section 5 of the OLT Forum message board for discussion and questions of the reviews and related products.

Hardware



A Mouse Without a Tail

MouseMan (Logitech Inc.) is a cordless mouse for IBM computers. The mouse has a built-in radio transmitter and a separate receiver that can be connected to either a serial port or a PS/2 mouse port. Reviewer Christy Brothers found the MouseMan to be of high quality but relatively expensive. She says it was larger than most mice and didn't fit her hand comfortably, but that she appreciates its ability to broadcast even if the receiver is covered with books and papers. GO OLT-3010

Software

Automatic Online Sessions

TAPCIS (Support Group Inc.) is a communications program for IBM computers that will speed up your CompuServe sessions and save online time. It is especially useful for those who want to download forum messages, library files and CompuServe Mail. It lets users write messages and

electronic letters offline and then quickly upload them. Reviewer James Moran says TAPCIS is an essential part of any CompuServe user's software library, and especially applauds its distribution as shareware so you can try it before paying for it. GO OLT-3015

For more information on TAPCIS, GO TAPCIS.

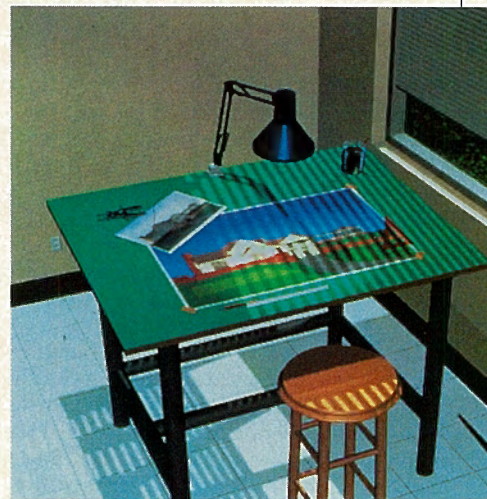
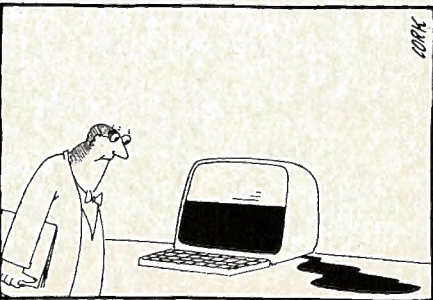
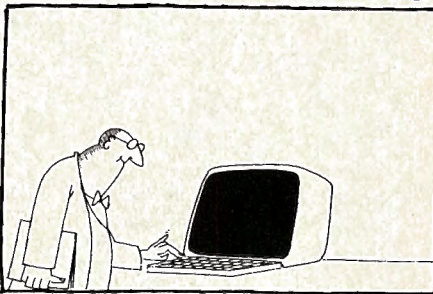
Windows Publishing

Ventura Publisher 3.0 for Windows (Xerox Co.) is a page layout and publishing program for the Microsoft Windows environment. Its many features include automatic text flow through a long document, both interactive and automated composition, and the ability to integrate text from many DOS-based word processors. Reviewer Hardin Brothers found this version of Ventura Publisher easy to learn and use, but he says it doesn't yet have the feel of a regular Windows program. However, he still thinks it is an excellent page-layout program. GO OLT-3020

For more information on Ventura products, GO VENTURA.

Watching the Clock

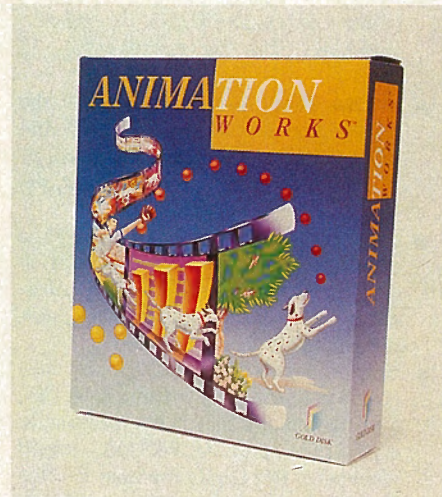
TimeSheet Professional 2.01 (Software Partners) is a time- and job-tracking program for IBM computers. It lets individuals and companies keep track of the time spent on different tasks and clients. It can produce a variety of reports that can be used for both planning and billing. Reviewer Harry Green found the program powerful, and especially liked its flexible report-writing abilities. He says it would be more useful with a few improvements in the user interface, but he recommends it highly in its present form. GO OLT-3035



Shading 3-D Drawings

AutoShade with Renderman (AutoDesk Inc.) adds extensive three-dimensional rendering capabilities to the company's AutoCAD drawing program for IBM computers. AutoShade takes AutoCAD files called "filmrolls" and turns them into renderings that reviewer Hardin Brothers found amazingly detailed. He also found the program surprisingly easy to learn and use, and says it makes an excellent companion to AutoCAD for users who need complete 3-D renderings and "walk-thrus" of CAD drawings. GO OLT-3050

For more information on AutoDesk products, GO AUTODESK.



Macintosh Animation Package

Animation Works 1.0 (Gold Disk Inc.) is a professional-quality animation program for Macintosh computers. It consists of a number of editors that let users create the

background, cells and movements of a computer-based animation. The final result can include sound, and can be used for both presentations and for storyboards for more complex productions. Reviewer Anthony Watkins found the program easy to learn and very rewarding to use. He particularly applauds the royalty-free run-time license that frees users from having to pay a special fee when they distribute animation presentations. *GO OLT-3025*

Collecting Your Thoughts

ThoughtPattern 1.1 (Bananafish Software Inc.) is a personal information manager for Apple Macintosh computers. It can store and retrieve text and graphics, and can link information from existing text, graphics and database files. Reviewer Anthony Watkins says ThoughtPattern's free-form method of storing and associating data makes it extremely flexible and a useful tool for those who cannot put their information into the tidy little boxes of standard database and organizer programs. *GO OLT-3065*

Personal Scheduling Utilities

Reminders! version 3.0 (POP Computer Products Inc.) is a personal scheduling and organization program for IBM computers. It runs either as a memory-resident pop-up program or as a normal application, and features several calendar modes, a phone book and autodialer, a note pad, log, to-do lists and an alarm clock. Reviewer William J. Lynott found Reminders! easy to install and learn. He says Reminders! may be more useful than most personal organizers just because of its ease of use. *GO OLT-3075*

Inexpensive Business Programs

MyInvoices, MyLabelMaker and MyMailList (MySoftware Co.) are three business programs for IBM computers that buck the trend of large, multifeatured applications. Each of these inexpensive programs does a single job. According to reviewer William J. Lynott, that limitation doesn't hurt the programs at all. He says all three do their jobs well and that they are all easy to use. He found the "less is more" attitude of these programs refreshing and says each is an excellent program for a small business. *GO OLT-3085*

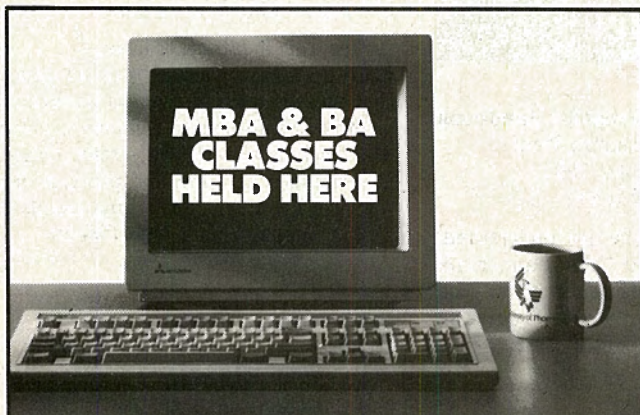
Speeding Up a Hard Disk

PC-Kwik Power Disk (Multisoft Corp.) is a disk defragmenting utility for IBM computers. It is compatible with nearly all hard disks and most removable cartridges and can be set to run automatically at regular intervals. Reviewer Harry Green found PC-Kwik to be highly effective and an inexpensive way to speed up disk data transfers. *GO OLT-3090*

For more information on Multisoft Corp. products, *GO PCVENA*.

Forget Obscure Commands

PC-IQ (A.I. Solutions) is a DOS shell for IBM computers that understands English sentences instead of cryptic DOS commands. It also can teach users DOS commands by displaying translations of each sentence the user enters. Reviewer Hardin Brothers found PC-IQ's approach intriguing, but the program too limiting for many users. He says the program and its documentation are both overly simplified, and that they keep the user from performing some normal day-to-day operations. *GO OLT-3095*



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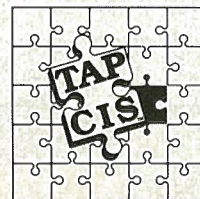


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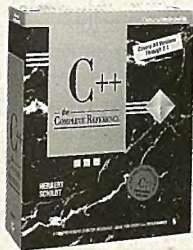


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Book Reviews

Online Book Reviews

Following are summaries of book reviews available for reading this month in *Online Today*. To read the complete reviews, type GO OLT-240 at any CompuServe Information Service prompt.

Quattro Pro 2 Made Easy

By Lisa Biow
Osborne McGraw-Hill Inc., 1990
547 pages, \$19.95 (softcover)

Starting with an unpretentious opening chapter that outlines the basics of Quattro Pro wizardry, this book leads the reader into such spreadsheet alchemy as advanced formulas, customizing the environment and designing a database. Reviewer William J. Lynott recommends it, especially for beginners. *GO OLT-5010*



The Official QuarkXPress 3.0 Handbook

By Diane Burns and Sharyn Venit
Bantam Computer Books, 1990
506 pages, \$24.95 (softcover)

Praising the text for its understandable, logical, nuts and bolts manner, reviewer John Edwards says it is good enough to use as a do-it-yourself course on desktop publishing. *GO OLT-5020*



The First Book of PC Paintbrush

By Deke McClelland
SAMS, 1990
289 pages, \$16.95 (softcover)

Novices who want to become proficient computer artists will benefit from the instruction provided in this text, says reviewer Sharon Kahn. More than a tutorial, this book offers background explanations that lend depth and focus to the subject. *GO OLT-5030*

Portable Computing: Work on the Go

By Colin Haynes
AMACOM Books, 1991
226 pages, \$26.95 (softcover)

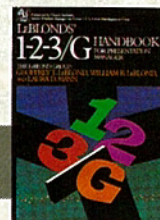
This comprehensive guide to the world of portable computing will show you how to evaluate and purchase various types of portable systems and software. Reviewer John Edwards praises the book for its entertaining and informative style. All in all, it's a book that moves. *GO OLT-5040*



The Big Book of Amazing Mac Facts

By Lon Poole
Microsoft Press, 1991
513 pages, \$24.95 (softcover)

Yes, this is a book of facts, but it's also more than that. Packed with information that will enhance Macintosh performance or provide solutions to common problems, *Mac Facts* is a worthwhile reference text. Describing it as a fun and practical book, reviewer Franklyn Jones recommends it to all Macintosh users. *GO OLT-5050*



LeBlonds' 1-2-3/G Handbook for Presentation Manager

By Geoffrey T. LeBlond, William B. LeBlond and Laura D. Mann
Bantam Computer Books, 1990
1,152 pages, \$29.95 (softcover)

Calling it a monumental work, reviewer Harry Green praises this book for thoroughly explaining in context 1-2-3/G's complex features. Ideal for beginners and experienced users alike, it is well worth the cover price. *GO OLT-5060*

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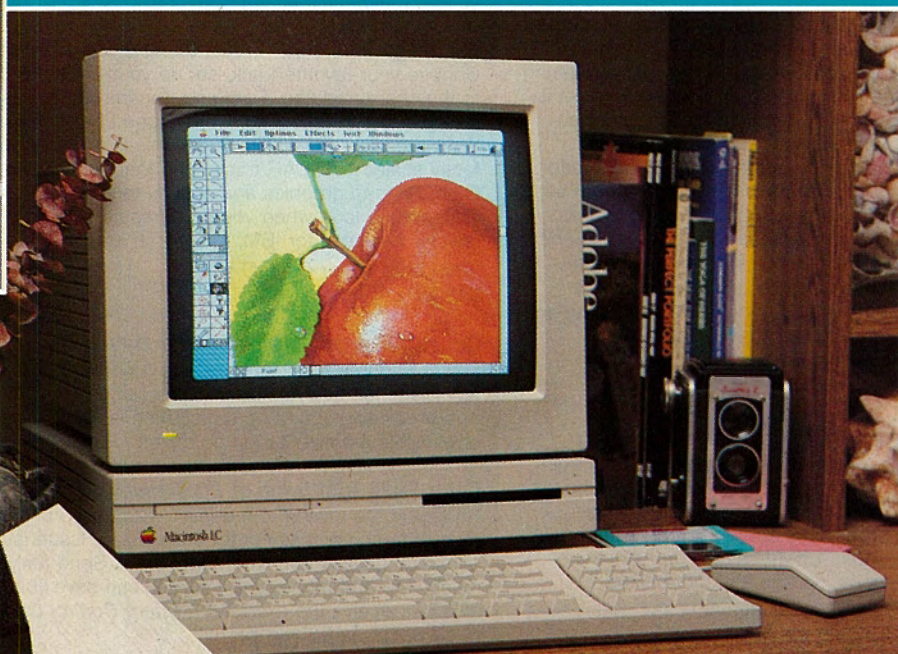
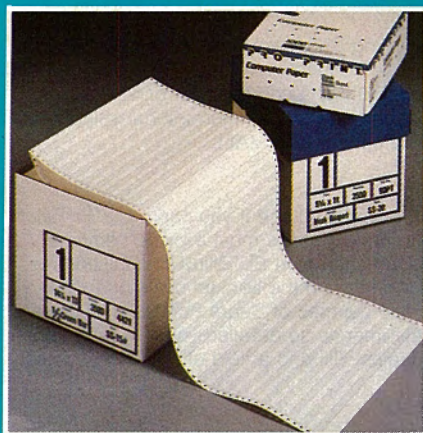
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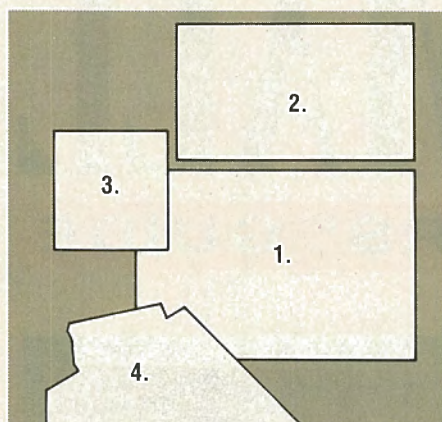
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See page 48 for descriptions and prices.



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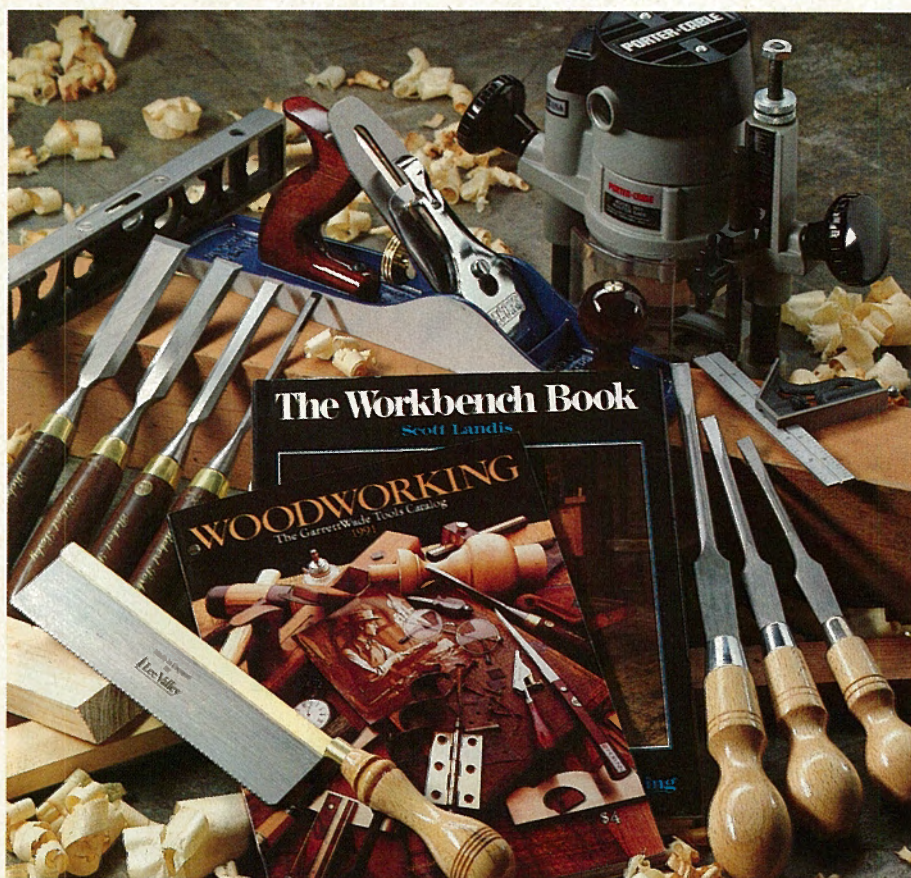
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B



A

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B. Hawaii General Store Offers Island Gifts, Travel Packages

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B

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B

C. Save \$30 on JCPenney's Drafting Table, Lamp and Chair

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From JCPenney. GO JCP

Until Sept. 17, 1991:

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After Sept. 17, 1991: \$129.99

Stand and Deliver: Highway Men from Robin Hood to Dick Turpin

The amazing stories of Robin Hood, Dick Turpin, Sixteen-String Jack, Jonathan Wild and the many other highwaymen of English history. The author, Patrick Pringle, introduces us to the men as they lived, breathed, rode, charmed the ladies and stole.

From Barnes & Noble. GO BN

List price: \$19.95

Sale price: \$6.95

Save 50 Percent on Levi's 900 Series Denim Jacket for Women

Get the comfort of oversized tailoring at a great price. Dark blue 100 percent cotton denim fades with each washing. Includes two-button flap breast pockets and two slash front pockets.

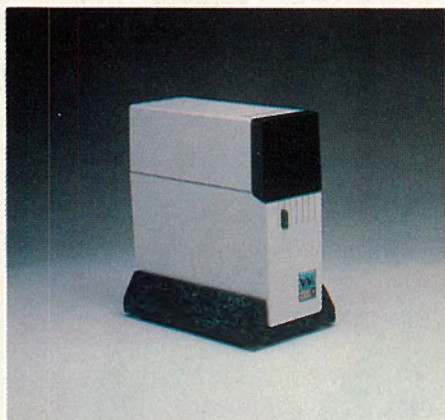
From Americana Clothing. GO AC

Regular price: \$60

Sale price: \$29.99



C



A



B

A. Save More Than \$70 on the Viva External Send-Only Fax Modem from Computer Peripherals

This 2400-baud, 100 percent Hayes-compatible modem and 4800-baud fax (send only) is Mac- and IBM-compatible only and requires a RS-232 serial port. Text and graphics can be combined onto a one-page fax and broadcast to unlimited remote locations. Comes with **free** communications software and standard modem features, such as non-volatile memory, on-board speaker, auto-dial, auto-answer, auto-fallback and analog loopback testing.

From Computer Express. GO CE

List price: \$199

Sale price: \$125

B. Get 10 Free Disks at Direct Micro

Buy 90 disks and get 10 **free**. Let Direct Micro supply all your diskette needs for home or office. Select from a variety of colors, including neon, for 3.5-inch and 5.25-inch, low- and high-density disks, all at low discount prices. They're great for organizing and color coding your files.

From Direct Micro. GO DM

C. Save More Than \$100 on Sharp Wizard

This Sharp Wizard state-of-the-art electronic organizer features an LCD screen, "qwerty" raised-key keyboard, 64K RAM memory and IC card port. Other built-in features include calendar, schedule, schedule alarm, telephone directory, world clock, calculator and more. Plus, the Sharp Wizard has the ability to communicate with other organizers, PCs, modem, fax and terminals. Weighs only 10.5 ounces. Not a SAC member? Sign up online.

From Shoppers Advantage Club. GO SAC

List price: \$359.99

Shoppers Advantage Members' low price:

\$249

D. AT&T Phone/Answering Machine

The AT&T 1521 Phone/Answering Machine features dual-microcassettes, personal memo, LED message counter, audible message alert and a call-interrupt feature.

From Sears. GO SEARS

\$119.99

\$129.99 after Oct. 31, 1991

E. AT&T Cordless Speakerphone

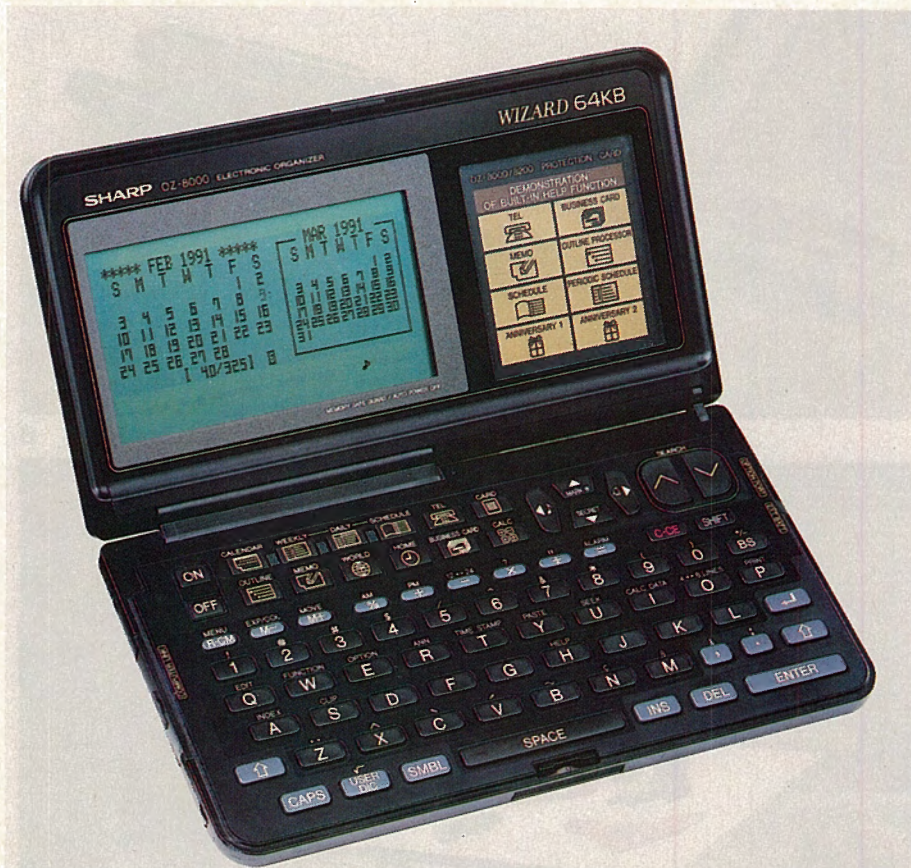
AT&T quality with Clarity Plus™ circuitry virtually eliminates the annoying static interference common to ordinary cordless phones. The AutoSelect™ feature searches 10 channels to find the clearest one. Features a nine-number speed-dialer, two-way paging, handset locator and intercom between base and handset.

From Sears. GO SEARS

\$159.99

\$169.99 after Oct. 31, 1991

Type 99 after any merchant's GO command and zip to a list of their pictured products.



C



D



E

A. Ford Features the Ford Probe

Two-thirds of the earth is covered with water. Ford believes we need to make the most of what's left. Its sophisticated 1991 Ford Probe sports car is one way of doing just that. The low hoodline, flush glass, wraparound quarter windows and .308 coefficient of drag contribute to its performance as well as its style. Under that smooth skin are the components that make driving Ford Probe a satisfying experience. A 3.0 liter V-6 with overhead valves and multiport fuel injection delivers 160 pounds per foot of torque for responsive performance. The current feature vehicle in the Ford Electronic Showroom is Ford Probe. Read why you should consider sharing your one-third of the globe with Probe. Request a **free** brochure, too.

From Ford Motor Co. GO FORD



A

B. Security Pacific Offers a Credit Line that Saves Time

Who has time to wait around? With a Private Reserve credit line, you can have access to up to \$20,000 quickly and easily. Apply online and soon you could be enjoying the advantages of **free** checkbook access to your account. At 6.9 percent above the bank prime, Private Reserve gives you one of the best rates available on unsecured loans. Best of all, there are no application fees, no prepayment penalties and no monthly fees. Security Pacific Executive Professional Services is a subsidiary of Security Pacific Co., one of the nation's largest bank-holding companies, with assets of more than \$80 billion.

From Security Pacific. GO SEC



B

24-Hour Incorporation Service

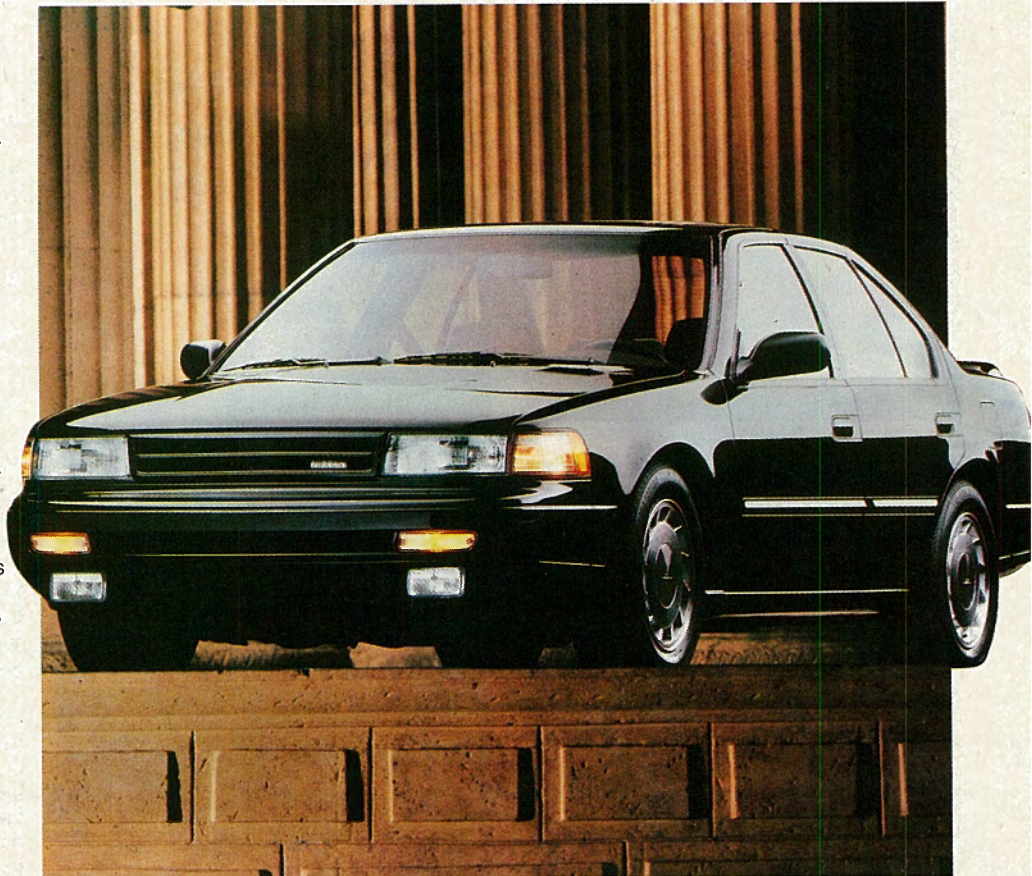
Discover the tax advantages of incorporating your business. Corporate Agents Inc. is a nationwide, full-service incorporating company that offers the first online guide to incorporating a business anywhere in the United States. Learn why, where and what is required to incorporate. Then, complete the order entry form and incorporate your business online—within 24 hours! Complete details online.

From A Guide To Incorporating. GO INC

C. Discover the Nissan Maxima

With four doors and seating for five, the Nissan® Maxima® offers you and your passengers all the amenities and conveniences of a luxury sedan. Yet, just touch the accelerator and the race-acclaimed 3.0 liter V6 responds with the lightning-quick acceleration that has won the admiration of some of the most discerning critics and demanding drivers alike. With its smooth, aerodynamic form, advanced suspension system and sumptuous interior, Maxima is proof that the power and performance of a sports car can be combined with the comfort of a touring sedan, without compromise or conflict. To read more about the Nissan Maxima, visit the Nissan Electronic Showroom. Request a **free** color brochure, too.

From Nissan Motor Corp. in USA. GO NI



C



A



B



C



D



E



F

A. Get Fit with The Step

Get a low-impact, high-intensity step workout at home. The adjustable platform is 43 by 16 by 4 inches and comes with 2-inch by 16-inch high blocks, which are placed under the platform to adjust the step height. Includes a 40-minute Step Rebok safety/instruction workout video. The same Step used in most fitness clubs.

From Push Pedal Pull Fitness. GO PPP

Regular price: \$129.95

Sale price: \$109.95, delivery included.

B. Shop the Sears Fall 1991 Big Book

The new 1991 Big Book features more than 1,600 pages filled with the most complete selection of merchandise in America! Shop for your home, your family or yourself. The Sears catalog puts hundreds of thousands of items at your fingertips. Order your copy of the Fall 1991 Big Book online and receive a \$6 merchandise certificate. Order any item from a current Sears Catalog online.

From Sears. GO SEARS

\$6

C. Pinpoint Oxford Shirt

Exclusive to Apparel Concepts! 100 percent cotton pinpoint oxford shirt. Features extra-long tail, seven-button front, button-down or plain collar. Sizes 14½ to 17½ neck, 32 to 36 sleeve. Available in white, light blue, ecru or pink. Sold elsewhere for \$50.

From Apparel Concepts for Men. GO AP

\$26.50

D. Save 25 Percent Off Cross Pens

Classically styled and guaranteed for a lifetime. Choose from 12 models, all beautifully packaged. Select from lustrous chrome, classic black, 10-karat gold-filled or 14-karat gold-filled, all at 25 percent off retail.

From Sunglasses, Shavers and More. GO SN

\$35.65 14-karat gold-filled ball-point pen.

\$16.90 Classic black ball-point pen.

E. Heath Bar Heaven

A candy bar in a cookie! Chunks of Heath Bar Crunch combined with delicious chocolate. Each tin holds about 50 cookies.

From Gimmee Jimmy's Cookies. GO GIM

\$24

F. Adopt a Baby Gorilla

Visit Squishy Wishy's online zoo for an assortment of cuddly stuffed animals, including this baby gorilla. This huggable, realistic gorilla is the perfect fit for monkey lovers.

From Squishy Wishy Zoo. GO SW

\$24.95

Type 99 after any merchant's GO command and zip to a list of their pictured products.

Protect Yourself with the Tick Kit

Enables you to retain the tick and document each bite for future evaluation. Kit includes a special Tweez-A-Tick tweezer, antiseptic towelettes, bite history card, tick tapes, strip bandages and an easy-storing case.

From PetWorks. GO PT

\$10.95

A. Precious Stone Solitaire Game

Amethyst, agate, crystal and 35 other semi-precious, oversized marbles on a 10-inch wood base. 18th-century French game.

From Museum of Fine Arts, Boston. GO FA \$98

Museum members' price: \$88.20

Type 99 after any merchant's GO command and zip to a list of their pictured products.

Heretic Pharaoh: The Life of Akatnaton

Akhenaton devoted his life to promulgating what are possibly the world's oldest examples of monotheism. He changed his name, publicly renounced the religion of his polytheistic ancestors and built a new capital at a remote site in the desert. Drawing on new evidence, Joy Collier presents some startling theories about this strange and complex Pharaoh.

From Barnes & Noble. GO BN

List price: \$19.95

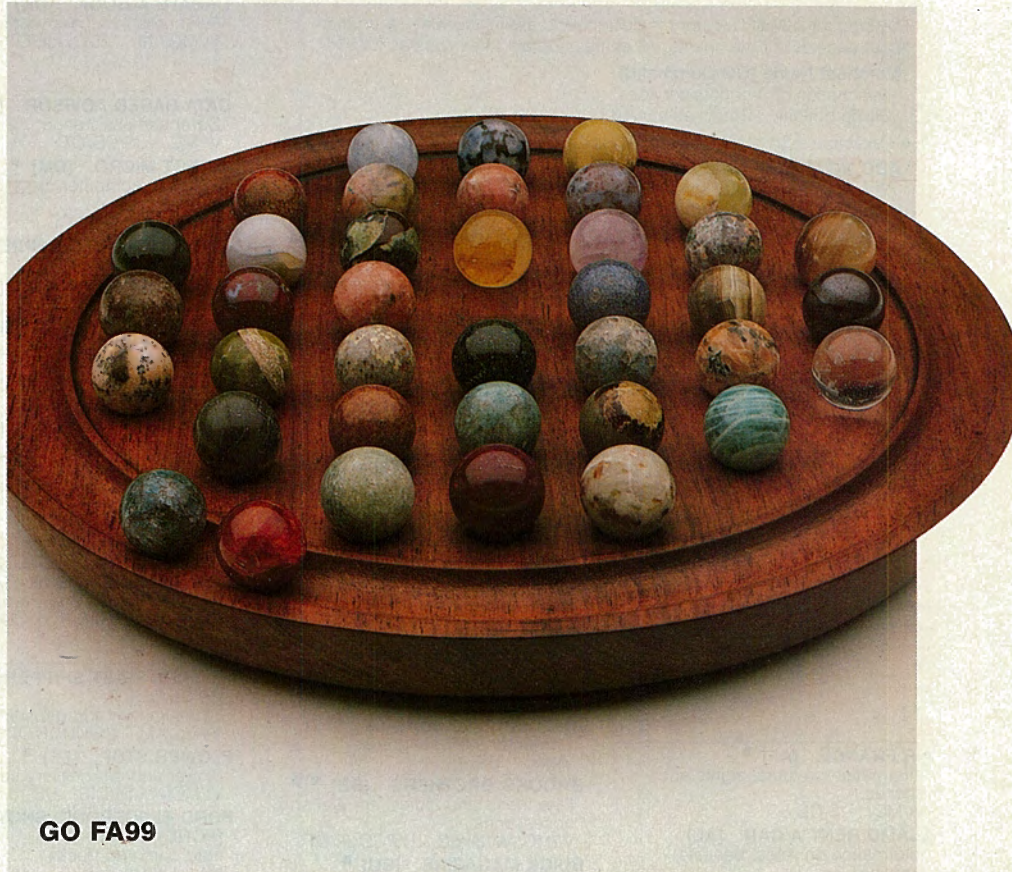
Sale price: \$9.95

B. The Amazing Adventures of Sir Peepsqueek and Mouse Mallory

A delightful, personalized adventure book that takes your child on a journey through the Kingdom of Wildwood. Filled with activities, puzzles and games, here is a book that stimulates your child's mind and imagination while providing hours of enjoyment. Ages 4 and older.

From Create-A-Book. GO CK

\$24.95



GO FA99

C. Dog Breed Sweatshirts and T-Shirts from Tail Tails

Proclaim you favorite dog breed with a sweatshirt or T-shirt from Tail Tails. Most breeds of dogs are available, from dachshund to saint bernard! These high-quality T-shirts and sweatshirts feature black ink artwork and are available in a variety of colors.

From Tail Tails. GO TT

\$24.95 per Sweatshirt

\$17.99 per T-shirt

D. Case Logic Carrying Cases

These portable nylon carrying cases are perfect for toting CDs or cassettes on summer road trips. Each holds 30 musical selections.

From Sounds & Video Online. GO SO

\$19.95 for the CD tote

\$14.95 for the Cassette tote

Save on Business Magazines at Publishers Clearing House

Select from dozens of business and financial publications, all at low discount prices. Here's a sample of the magazines offered:

Income Opportunities: eight issues/**\$7.97**

Money: six issues/**\$15.56**.

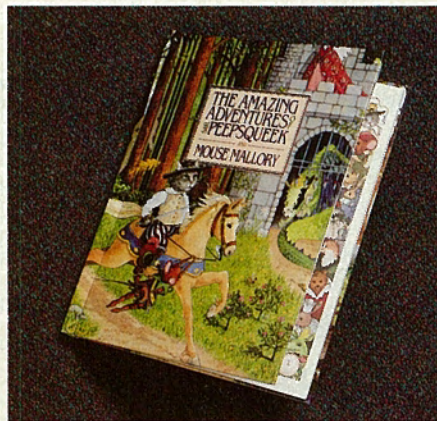
Includes a **free** three-part financial guide!

Inc.: eight issues/**\$10.95**.

Includes a **free** guide and a **free** briefcase.

Extra Income: six issues/**\$5.95**.

From Publishers Clearing House. GO PUB



B



D



C

The Electronic Mall Directory is designed to assist you with information about each of our merchants. All entries contain three lines as follows:

Merchant Name [GO Command]
Description of products/services
Billing options Countries served

An example entry would look like this:

ABC NOVELTY STORE [ABC]
Books, knick-knacks, collectibles.
VI/MC/AM/CSH US/CD/JP/OT

You may visit the ABC NOVELTY STORE by using the quick reference word (GO ABC) at any CompuServe Information Service ! prompt.

Billing options codes indicate the methods of payment the merchant accepts as follows:

VI – VISA	SC – Merchant's own store card
MC – MasterCard	COD – COD
AM – American Express	CSH – Cash, check, money order
DI – Diners Club	DB – Direct bill
DIS – Discover Card	NA – No billing applies (Advertiser only)

Country codes indicate the countries the merchant is able to ship to as follows:

US – United States	JP – Japan
CD – Canada	OT – Other foreign countries

Catalog options for merchants offering catalogs are indicated by the following codes.

- Offers free print catalog.
- * Denotes electronic order form for use with print catalog.
- Credits cost of print catalog toward purchase.
- † Denotes new merchant.

A

AIR FRANCE [AF] ■
Information on tours, sights and scenes.
VI/MC US/CD

ALAMO RENT A CAR [AL]
Information on rates, benefits, locations.
NA US/OT

AMERICAN CLOTHING [AC]
Levi jeans and casual wear, Docker slacks.
VI/MC/AM/CSH US/CD/JP/OT

APPAREL CONCEPTS FOR MEN [AP]
Distinctive fashions for men.
MC/VI US

AUTOMOBILE INFORMATION CENTER [AI]
Wholesale/retail prices from 1978.
VI/MC US/CD

AUTOQUOT-R [AQ]
Vehicle price quotation service.
VI/MC/AM US

B

BARNES & NOBLE [BN] ■
Discount books, videos, CDs and gifts.
VI/MC/AM/DI/CSH US/CD/JP/OT

BERKSHIRE RECORD OUTLET [RO]
An international array of classical music at a discount.
VI/MC US/CD/JP/OT

BOSE EXPRESS MUSIC [BEM] † ● *
More than 5,000 new and classic compact discs.
VI/MC/AM/CSH US/CA/JP/OT

BOSTON COMPUTER EXCHANGE [BCE]
Largest worldwide computer brokerage.
VI/MC US/CD/JP/OT

BOYD'S OFFICE SUPPLIES [BO] ■ *
Supplies and teacher aids.
VI/MC US/CD

BRETON HARBOR BASKET CO. [BH]
Gift baskets, gourmet foods, bath and skin-care products.
VI/MC US/CD/JP/OT

BRODERBUND Software [BB]
Computer software/games.
VI/MC US

BROOKS BROTHERS [BR] ■ *
Fine men's and ladies' apparel and accessories.
VI/MC/AM/DI/SC US/CD/JP/OT

BUICK MAGAZINE [BU] ■
Free car information software.
NA NA

C

CAMELOT LONDON COLLECTION LINGERIE [CLC]
Alluring lingerie, swimwear and dresses.
VI/MC/CSH US/CD

THE CD CLUB [CD] *
Compact disc ordering club.
DB US

CDA COMPUTER SALES [CDA] ■ *
Hardware, printers and accessories.
VI/MC/AM/DIS/CSH US/CD/JP/OT

CHECKFREE CORP. [CF]
Electronic banking and bill payment service.
VI/MC/AM US

CHEF'S CATALOG, THE [CC] ■ *
Gourmet cookware and kitchen accessories.
VI/MC/AM/DIS US

COFFEE ANYONE ???™ [COF]
Original computer coffeehouse, gifts.
VI/MC/AM US/CD/JP/OT

COMPUERVE STORE [ORDER]
Merchandise, literature and software.

COMPUTER EXPRESS [CE] *
PC software, hardware, accessories.
VI/MC US/CD/JP/OT

COMPUTER SHOPPER [CS]
Computer product bargains and information magazine.
VI/MC/DB US/CD

CONTACT LENS SUPPLY [CL]
Fast delivery of replacement lenses and more.
VI/MC/CSH US

COURT PHARMACY, THE [RX]
Full-service pharmacy and gift shop.
VI/MC/AM/DI/DIS/COD US/CD/JP/OT

CREATE-A-BOOK [CK]

Fun books that make your child a star.
VI/MC/AM US/CD/JP/OT

D

DATA BASED ADVISOR [DB]
Database assistance.
VI/MC US/CD/OT

DIRECT MICRO [DM] *
Discount computer disks and supplies.
VI/MC/COD US/CD

DISCOUNT MUSIC SUPPLY [DMS] ■ *
Guitar effects and accessories.
VI/MC/COD US/CD/JP/OT

DISCOUNT SHOPPING INC. [DSI]
Electronics and appliances. Guaranteed price and service.
VI/MC US

DOW JONES & CO. [DJ]
Business and financial periodicals.
VI/MC/AM US/CD

DREYFUS CORP. [DR]
Mutual funds and investment information.
VI US

E

EXECUTIVE STAMPER [EX] ■ *
Rubber stamps, engraved gifts.
VI/MC/AM/DI/DIS US/CD/JP/OT

F

FLORIDA FRUIT SHIPPERS [FFS] ■
Premium fruit and gift shippers.
VI/MC/AM US/CD/JP/OT

FLOWER STOP [FS] ■
Flower and gift delivery service.
VI/MC/AM/DI/DIS US

FORD ELECTRONIC SHOWROOM [FORD] ■
Ford cars and trucks.
NA US/CD

FORD MOTOR CO. [FMC] ■
Software, videos, accessories.
VI/MC US/CD

G

GARRETT WADE WOODWORKING TOOLS & SUPPLIES [GW] † ■ *
Woodworking tools and supplies for the hobbyist or professional.
VI/MC/DIS/AM/CSH US/CD/JP/OT

GIMMEE JIMMY'S COOKIES [GIM]
Gourmet cookies, custom orders.
VI/MC/AM/DIS US/CD/JP/OT

GODIVA CHOCOLATIER [GC] ■ *
Gourmet chocolate and gifts.
VI/MC/AM US

A GUIDE TO INCORPORATING [INC]
Nationwide incorporating service.
NA US

H

H&R BLOCK [HRB]
The income tax people.
NA US

HAMMACHER SCHLEMMER [HS] ■ *
Gifts, unique and unusual products.
VI/MC/AM/DI US/CD/JP/OT

HAWAII GENERAL STORE [HI]
Gifts from the 50th state.
VI/MC US

HEATH COMPANY, THE [HTH] ■ *
Home security and automation.
VI/MC/AM/SC US/CD

HOME TECH DEPOT [HT]
Computer hardware, software and accessories.
VI/MC/COD US

J

JCPENNEY [JCP] ● *
Apparel, furnishings, electronics.
VI/MC/AM/SC US

K

KELL'S INTERNATIONAL [KI] †
Unique items and services.
VI/MC/DIS US/CN/JP/OT

L

LAPTOPS INFINITY [LI] *
Laptop computers and accessories.
VI/MC/AM/CSH US/CD/JP/OT

LASER'S EDGE, THE [LE]
Your one-stop laser video store.
VI/MC/DIS US/CD/JP/OT

LINCOLN ELECTRONIC SHOWROOM [LM] ■ *
Continental, Town Car and Mark VII.
NA US/CD

M

MACFRIENDS [MF] ■ *
Macintosh hardware and products.
VI/MC/AM/DIS/COD US/CD/JP/OT

MACUSER [MC]
Save 58 percent and receive free gift.
VI/MC/DB US/CD

MACWAREHOUSE [MW] ■ *
Macintosh hardware, software and equipment.
VI/MC/COD US/CD/JP/OT

MARYMAC INDUSTRIES [MM]
Official Radio Shack dealer.
VI/MC/AM/DIS/CSH US/CD/JP

MAX ULE DISCOUNT BROKERAGE [TKR]
Brokerage and financial information retrieval.
CSH US/JP/OT

MCGRAW-HILL BOOK CO. [MH] ■ *
Business, finance and computer books.
VI/MC US/CD/JP

MENTOR TECHNOLOGIES [MN]
Authorized CompuServe training.
VI/MC US

MERCURY ELECTRONIC SHOWROOM [LM] ■ *
Cougar, Sable, Tracer, etc....
NA US/CD

MICROWAREHOUSE [MCW] ■ *
Hardware, software and equipment for PCs.
VI/MC/COD US/CD/JP/OT

MILTROBE ELECTRONICS [MI] ● *
Consumer electronics, tools, gifts.
VI/MC/CSH US/CD

MONEY'S FINANCIAL MARKET [MFM]
Personal finance tools from Money.
VI/MC/AM US

MUSEUM OF FINE ARTS, BOSTON [FA] ■ *
Gifts and classic reproductions.
VI/MC/AM US/CD/JP/OT

MUSIC ALLEY ONLINE [MAO]
Mixers, synthesizers, keyboards, etc.
VI/MC/COD US/CD

N

NARADAPRODUCTIONS [NP]
Cassettes and compact discs.
VI/MC US

NEWSNET [NN]
Specialized business news database service.
NA US/CD

NISSAN MOTOR CORP. IN THE USA [NI] ■
Nissan cars, trucks, accessories.
VI/MC US

NORTHWEST NATURALLY [NW] ■ *
Gourmet foods and gifts.
VI/MC/AM US/CD

O

OFFICIAL AIRLINE GUIDES [OA] ■
Information on online services; air and hotel guides.
VI/MC US/CD

THE ORCHID SOURCE [OC]

Exotic flowering plants.
VI/MC US

P**PAUL FREDRICK SHIRTS CO. [PFS]**

Classic shirts from the tailor to you.
VI/MC/AM/DI US

PC/COMPUTING [PCC]

Save 58 percent and receive free gift.
VI/MC/DB US/CD

PC MAGAZINE [PM]

Save 54 percent and receive free gift.
VI/MC/DB US/CD

PC SOURCES [PC]

Save 45 percent and receive free gift.
VI/MC/DB US/CD

PENNY WISE OFFICE PRODUCTS [PW] ■ *

Full range of brand-name office products.
VI/MC/AM/COD/DB/CSH US

PEPPERIDGE FARM [PF] ■ *

Gourmet cookies, candies, gifts, etc.
VI/MC/AM/DI/DIS US

PETWORKS [PT]

Professional pet supplies.
VI/MC/AM/DIS/CSH US/CD/JP/OT

PRICE MOTOR CARS [PRC]

Auto accessories and gifts of distinction.
VI/MC/AM/DIS US/CD/JP

THE PROGRAMMER'S SHOP [PS] ■ *

Software for applications, programming, communications and more.
VI/MC/AM US/CD/JP/OT

PUBLISHERS CLEARING HOUSE [PUB]

Magazine subscriptions at low prices.
VI/MC US

PUSH PEDAL PULL FITNESS [PPP] ■ *

Professional home exercise equipment.
VI/MC/AM/DIS US/CD/JP/OT

R**RENT MOTHER NATURE [RM] ■ ***

Nature's gifts, leasing programs, etc.
VI/MC/AM US/OT

S**SAFWARE COMPUTER INSURANCE [SAF] ■**

High-tech equipment insurance.
VI/MC US/CD/JP/OT

SEARS [SEARS] ■ *

Electronics, home-office supplies, Nintendo and videos.
DIS/SC/CSH US

SECURITY PACIFIC [SEC]

Online low-interest credit application.
NA US

SHARON LUGGAGE AND GIFTS [SL]

Luggage, travel accessories and gifts.
VI/MC/AM/CSH US/CD/JP/OT

SHOPPERS ADVANTAGE CLUB [SAC]

Discount shopping club.
VI/MC US

SIERRA ONLINE [SI]

Software games and more.
VI/MC/AM/DIS US/CD/JP/OT

SOFTWARE DISCOUNTERS INTERNATIONAL [SDI]

Software for a wide range of computers.
VI/MC US/CD/JP/OT

SOUNDS & VIDEO ONLINE [SO] ■ *

Music on CD and cassette.
VI/MC/AM/DIS US

SQUISHY WISHY ZOO [SW]

Lovable, huggable stuffed animals.
VI/MC US/CD/JP/OT

STATIONERY CENTER, THE [SC] ■ *

Office supplies, furniture, etc.
VI/MC/AM/DIS/CSH US/CD/JP

SUNGLASSES, SHAVERS & MORE [SN]

Famous-name sunglasses, shavers, clocks and pens.
VI/MC US/CD/JP/OT

T**TALL TAILS [TT]**

Supplies and gifts for your pet.
VI/MC/COD US/CD/JP/OT

TRW CREDENTIALS [CRE]

Know the details of your credit status.
VI/MC/AM US

TSR GAMES SHOPPE [TSR] ■ *

Adventure, fantasy games and accessories.
VI/MC US/CD/JP/OT

U**UNIVERSITY OF PHOENIX [UP]**

Business degree program online.
NA NA

W**WALDEN COMPUTER BOOKS [WB]**

Computer books and accessories.
VI/MC/AM US/CD/JP/OT

WALTER KNOLL FLORIST [WK]

Plants, flowers and gifts via FTD.
VI/MC/AM/DI/DIS/DB US/CD/JP/OT

Y**YES! BOOKS AND VIDEOS [YB] ■ ***

A unique collection of books and videos.
VI/MC/AM US/CD/JP/OT

Merchants by Department

APPAREL/ACCESSORIES

AC Americana Clothing
AP Apparel Concepts for Men
BR Brooks Brothers ■ *
CLC Camelot London Collection Lingerie
JCP JCPenney ■ *
PFS Paul Fredrick Shirts Co.
SN Sunglasses, Shavers & More

ARTS/MUSIC/VIDEO

BN Barnes & Noble ■
RO Berkshire Record Outlet
BEM Bose Express Music † ■ *
CD CD Club *
DMS Discount Music Supply ■ *
LE The Laser's Edge
MAO Music Alley Online
NP Narada Productions
FA Museum of Fine Arts, Boston ■ *
SEARS Sears ■ *
SO Sounds & Video Online ■ *
YB YES! Books and Videos ■ *

AUTO

AL Alamo Rent A Car
AI Automobile Information Center
AQ Autoquot-R
BU Buick Magazine ■
FORD Ford Motor Co. ■
LM Lincoln Mercury ■
NI Nissan Motor Corp. in the USA ■
PRC Price Motorcars

BOOKS/PERIODICALS

BN Barnes & Noble ■
CS Computer Shopper
CK Create-A-Book
DB Data Based Advisor
GW Garrett Wade Woodworking Tools & Supplies † ■ *
KI Kell's International †
DJ Dow Jones & Co.
MH McGraw-Hill Book Co. ■ *
MC MacUser
MFM Money's Financial Market

PCC PC/Computing
PM PC Magazine
PC PC Sources
PUB Publishers Clearing House
SI Sierra Online ■
WB WaldenCOMPUTERbooks
YB YES! Books and Videos

BUSINESS/FINANCE

CF CheckFree Corp.
DR Dreyfus Corp.
DJ Dow Jones & Co.
INC A Guide to Incorporating
HRB H&R Block
TKR Max Ule Discount Brokerage
MFM Money's Financial Market
NN NewsNet
SEC Security Pacific
CRE TRW Credentials
UP University of Phoenix

CLUBS/MEMBERSHIPS

CD CD Club *
DSI Discount Shopping, Inc.
SAC Shoppers Advantage Club *
PT Petworks

COMPUTING

BCE Boston Computer Exchange
BB Broderbund Software
CDA CDA Computer Sales ■ *
ORD CompuServe Store
CE Computer Express *
CS Computer Shopper
DB Data Based Advisor
DM Direct Micro *
HTH The Heath Company ■ *
HT Home Tech Depot
LI Laptops Infinity
MF MacFriends ■ *
MC MacUser
MW MacWarehouse ■ *
MM Marymac Industries
MCW MicroWarehouse ■ *
PS The Programmer's Shop
PCC PC/Computing
PM PC Magazine

PC PC Sources
SAF Safeware Computer Insurance ■
SI Sierra Online ■
SDI Software Discounters International
SV Springer-Verlag ■ *
WB WaldenCOMPUTERbooks ■ *
BN Barnes & Noble ■
BH Breton Harbor Basket Co.
CC The Chef's Catalog ■ *
CLC Camelot London Collection Lingerie

GIFTS/FLOWERS/GOURMET FOODS

COF Coffee Anyone™ ???
CK Create-A-Book
FFS Florida Fruit Shippers ■
FS Flower Stop ■
GW Garret Wade Woodworking Tools & Supplies † ■ *
GIM Gimme Jimmy's Cookies
GC Godiva Chocolatier ■ *
HS Hammacher Schlemmer ■ *
HI Hawaii General Store
FA Museum of Fine Arts, Boston ■ *
KI Kell's International †
NW Northwest Naturally ■ *
OC The Orchid Source
PF Pepperidge Farm
RM Rent Mother Nature ■ *
SL Sharon Luggage and Gifts ■
SW Squishy Wisly Zoo
WK Walter Knoll Florist Garden

HEALTH/BEAUTY

BH Breton Harbor Basket Co.
CL Contact Lens Supply
RX Court Pharmacy
KI Kell's International †
PPP Push Pedal Pull Fitness ■ *

HOBBIES/TOYS/PETS

GW Garrett Wade Woodworking Tools & Supplies † ■ *
PT PetWorks
SEARS Sears ■ * *

SW Squishy Wisly Zoo
TT Tall Tails
TSR TSR Games Shoppe ■ *

INFORMATION/SERVICES

BCE Boston Computer Exchange
ORD CompuServe Store
KI Kell's International †
MN Mentor Technologies
SAF Safeware Computer Insurance ■
SEC Security Pacific
CRE TRW Credentials
UP University of Phoenix

MERCHANDISE/ELECTRONICS

BR Brooks Brothers ■ *
CC The Chef's Catalog ■ *
ORD CompuServe Store
RX Court Pharmacy
DSI Discount Shopping, Inc.
HS Hammacher Schlemmer ■ *
HTH The Heath Company ■ *
JCP JCPenney ■ *
MI Miltrobe Electronics ■ *
SEARS Sears ■ *
SAC Shoppers Advantage Club
SN Sunglasses, Shavers & More

OFFICE SUPPLIES

BO Boyd's Office Supplies ■ *
DM Direct Micro *
EX Executive Stamper ■ *
HT Home Tech Depot
PW Penny Wise Office Products
SEARS Sears ■ *
SC The Stationery Center ■ *

SPORTS/LEISURE

HS Hammacher Schlemmer ■ *
PPP Push Pedal Pull Fitness ■ *

TRAVEL/VACATIONS

AF Air France ■
HI Hawaii General Store
OA Official Airline Guides ■
SL Sharon Luggage and Gifts ■
SN Sunglasses, Shavers & More

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From JCPenney. GO JCP

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C. Penny*Wise Office Products Offers Home-Office Organizers

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From Penny*Wise Office Products. GO PW

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A



B



C



D

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Online Inquiry is *CompuServe Magazine's* electronic version of the traditional reader inquiry card. To request additional information about products or services described in *CompuServe Magazine*, simply access CompuServe and type GO OLI at any prompt.

CompuServe Page OLI-1
COMPUSERVE MAGAZINE ADVERTISERS
ONLINE INQUIRY (OLI)

1. OLI Instructions
2. CompuServe Magazine Display Ads
3. Print Edition Reviews
4. Shopper's Guide Mini-Ads

Display Ads

GO OLI-160. Inquiries to this section will be followed by a brief description of the *CompuServe Magazine* ad. To request additional printed information, simply enter your name and address at the prompts. OLI will add your User ID number and electron-

ically forward your request to the appropriate advertiser(s). The names, addresses and User ID numbers will also be forwarded via US Mail at the end of each month.

CompuServe Page OLI-160
COMPUSERVE MAGAZINE
ADVERTISERS/OLI

1. August 1991 Advertisers
2. July 1991 Advertisers
3. June 1991 Advertisers

Shopper's Guide

GO OLI-70 to get information about *CompuServe Magazine's* mini-ad program.

To request information from Shopper's Guide advertisers, follow the instructions outlined in each ad.

CompuServe Page OLI-70
SHOPPER'S GUIDE

1. About Shopper's Guide
2. Rates and Information

***Note:** Additional requests during the same session will not require you to re-enter your name and address.

Advertiser's Directory

Autoquot-r	59	Quick & Reilly	31
Barnes & Noble	33	Quick Results Video	25
Classified	59	Ramco Ribbons	59
CompuServe Business Card	29	Security Pacific	32
Information Access	41	Shoppers Advantage	Cover 3
IQuest	43, 46	Spear Financial	42
McGraw-Hill	46	Support Group, Inc.	45
Money Magazine	9	Supra	Cover 4
Official Airline Guides	4-5	Travelers Access	Cover 2
Penny Wise	33	University of Phoenix	45
Phone*File	32	You Guessed It	1
Practical Peripherals	37		

FILE SAVERS



Cases are handcrafted in leather-like blue fabric. The spines of all cases are hot stamped with the *CompuServe Magazine* logo in gold foil for easy identification.

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UPDATE



You Gotta Have Art

When you can't make it to the art museum, bring the museum home with images from the Art Gallery Forum. It contains famous images such as LeRoy Neiman's "Chemin de Fer," (above) in which four legends are drawn together by chance at London's Crockford's Club: Duke Ellington, the Duchess of Windsor, David Niven and Barbra Streisand. To view this and other famous paintings, GO ARTGALLERY.



Stop By and Say Hi at MacWorld

Subscribers are welcome to visit the CompuServe booth, #1992, at Boston MacWorld, Aug. 6-9. CompuServe associates will be demonstrating products such as Navigator and the CompuServe Information Manager (CIM).

Break out those funny blue and red glasses because 3-D has come to CompuServe. The Computer Art Forum has opened two new libraries featuring animated and static images that appear to be three-dimensional. Library 17, "Animation," contains a collection of non-commercial animated images, many produced by the GRAFX Group, a pioneer in the field. Library 11, "World of 3-D," offers GIF files of static 3-D images. To get in on the fun, GO COMART.

Save time and money researching investments by using CompuServe's Company Analyzer. Whether you already own stock or are targeting potential candidates, Analyzer can help by providing access to fundamental data, pricing information and expert estimating services. GO ANALYZER

There's a time and a place for everything now on the Modem-to-Modem Gaming Forum. New theme nights for each of the gaming genres make it easier for players to find like-minded competitors in the Gaming Lobby. Mondays have been designated for racing and driving games, such as *Stunt Driver*, Tuesdays and Fridays for flight simulation games, Wednesdays and Saturdays for strategy games such as *Armor Alley*, and Thursdays for board and card games. Players are still free to play any game at any time. GO MTMGAMES

It's programming heaven in Digital Consulting Inc.'s new Computer Aided Software Engineering (CASE) Forum. The forum for application development professionals provides comprehensive industry coverage, implementation tips, methodologies, product information and comments by well-known industry experts such as Ed Yourdon and Jim Davey. GO CASEFORUM

Get a second opinion in Health Database Plus. This reference service contains full-text articles from more than 80 popular medical, health and fitness magazines, plus article summaries from 83 medical journals rewritten for the layperson. During August, first-time users of Health Database Plus will receive up to \$5 in usage credit for surcharges incurred during their first session. GO HLTDB

To understand the global economy you must understand Europe and CompuServe has three new services to make it easier. UK Company Library (GO UKLIB) offers access to databases containing directories of companies doing business in the United Kingdom; German Company Library (GO GERLIB) includes databases with directory and credit information on German companies; and European Company Library (GO EUROLIB) databases cover companies on the remainder of the continent. Surcharges apply.

NEXT MONTH • Home Schooling and the Electronic Campus: An Out of Classroom Experience • Software Developers: Turning Dreams into Reality • Ethical Investing: When a Winner's a Loser • GO BEERTOWN: Sampling Portland's MicroBreweries • Huh, What, Who? Breaking the Language Barrier

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