

Newsletter of Stanford Palo Alto Users Group for PC

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GENERAL MEETING
DIAMOND MULTIMEDIA PRESENTATION
VARIAN ASSOCIATES, BLDG. 7 AUDITORIUM
WEDNESDAY, JANUARY 25, 7:30 PM

**OS/2 WARP:
The Infamous CONFIG.BAK Problem**
Gary Scharf

Reprinted from OS/2 UG Bay Area News

By now, everyone has probably seen some reference to IBM having temporarily halted production on Warp because of the "CONFIG.BAK problem." This problem figured prominently in some negative press, including an article in *The New York Times*. Here's the full story.

Technically, the problem was an error in the installation program. If the installation program saw a CONFIG or AUTOEXEC.BAK file, it assumed that a previous attempt to install OS/2 had failed. It then scanned these files looking for "other stuff" to include in the files it was constructing for OS/2. When the .BAK files were left over from DOS, the installation program copied DOS statements like STACKS=, DOS device drivers like HIMEM.SYS, or SMARTDRV.EXE into the files it was constructing.

When you booted the new system, you would get errors during CONFIG.SYS processing, such as statements saying that OS/2 could not recognize the STACKS= statement. Pressing ENTER solves most of these problems. There could also be failures during rebooting late in the installation process with some statements.

If the AUTOEXEC.BAT file had sufficiently bad statements in it, no DOS or Windows session would run.

The knowledgeable user can fix this easily by editing the CONFIG.SYS and AUTOEXEC.BAT files. For the novice, though, this situation is more confusing.

Avoiding the problem is simple: just rename or erase the .BAK files before installing OS/2. (In fact, the reason that there were so few reports of this problem during the beta period was the instructions for installing the beta included formatting the drive.)

When the problem was identified, IBM saw that it would cause many problems, especially for first-time users of OS/2. IBM did the right thing: they stopped production to insert a corrected installation program, and asked that product in the channel be returned so that one disk in the box could be replaced. This probably delayed the appearance of Warp in the store by as much as a week, but corrected what would have been an epidemic problem. How can you tell if your copy of Warp was produced before or after the fix was made? Look at the SYSINT1.EXE file on diskette 1, and later in d:\OS2\INSTALL\BOOTDISK. If this file is 4224 bytes long and dated 10/8/94, it is the old file with the bug. If the file is 4992 bytes long, it is the new file with the correction. This is the only file changed in this fix. If you have an old file, just make sure you have renamed the CONFIG.BAK and AUTOEXEC.BAK files before installing, and you will be fine.



Computer Recycling Centers

The Computer Recycling Center
1245 Terra Bella Ave.
Mountain View
415-428-3700

Accepts computers and floppy disks.
Items are refurbished and donated
to local schools or nonprofit agencies.

Ecology Plus
1701 Rogers Ave. Units E&F
San Jose
800-700-7177

Accepts any computer-related items.
Usable items are resold and other
items are dismantled and the scrap
is recycled.

GreenDisk
POB 1546
Woodinville, WA 98072
206-489-2550

Disks for recycling.
Endorsed by Software Publishers'
Association. Recycled disks are
available at Egghead Software
and elsewhere.

Oak Knoll Elementary School
1895 Oak Knoll Lane
Menlo Park
415-853-1711

Computer equipment, working or not.
Goal is to assemble two systems per
classroom for public school.
Deliver during school hours or arrange
for pick-up.

A Well-Spelled Poem

Reprinted in various magazines
Submitted by Mildred Kohn

*I have a spelling checker
It came with my PC;
It plainly makes four my revue
Mistakes I cannot sea.
I've run this poem threw it,
I'm sure your pleased to no,
It's letter perfect in it's weigh,
My checker tolled me sew.*

Software Review: Quicken 3 for Windows and Quicken Companion 2 for Windows

Ron Nicholas, SPAUG Member

Introduction

The Quicken program is a financial organizing and reporting system. After two and a half months of computer problems including two hard drive failures on a 486 and one on a 386 followed by a complete system set up of a fourth hard drive, this evaluation report is finally submitted.

Upon receiving the "Evaluation Copy and Evaluators" manual, the uncertainty of fairly evaluating the product began to creep in. The outer packaging graphics are very good and details of what the contents are capable of doing was impressive.

Quicken 3 for Windows

Installing Quicken on my 386SX-16 Mhz with 2MB of RAM was done exactly to the brilliantly conceived Getting Started Guide. Each step was followed and painlessly achieved, but complete installation did seem a little slow. Running the program was even slower! Every time I executed a command by any mouse click, it took a full thirty seconds for the screen to react! This is intolerable!

The box said 2MB RAM minimum required and 3MB recommended, and 2MB is what my computer had! So why the slow operation? It had to be my machine. Just to verify, I hesitantly opened the machine's cover. By reading parts numbers I learned four 456KB SIMM chips (total of 1MB RAM) were installed! Now I was embarrassed, and having to buy additional SIMM memory was not part of the bargain to evaluate this financial management program. But I felt that since I had it and promised to evaluate it, I would buy four 1MB 70ns chips and life would be better. Well, at cold boot, the 386 locked up. By using only two 1MB SIMMs I could get the 386 running. Window 3.1 standard mode was the best I could do without further computer attention. Now I finally have a system that Intuit says is the minimum needed to run Quicken for Windows!

And start off well it does! The Getting Started Guide is clear, concise, and shows what you should see on the screen, has notes for definitions, and cross references to the User's Guide.

Setting up a bank account on a check register seemed somewhat foreign, but after a little practice and familiarization it seems okay. One feature I really enjoyed customizing into my own jargon was the category lists of expenses and

income. Quicken's lexicon is very good but at times I prefer my own. The User's Guide straightened me out to Intuit's meanings, and I changed where I could. Maybe I'll regret it later but since I have the disks I can always reload the program and get the original terminology.

Once I got into setting up my personal data account, I found it was easier than I thought it would be. The repetitive entry concept called QuickFill used in the Memorized Transaction List is where Quicken "guesses" at completing the rest of the entry name. This feature can be a little perplexing where there are many similar and long names involved. Maybe I need to use and search out this trait.

As my expertise level increases, I will add an account for my wife, a management account for the houses we own, and an account for tracking our investments intelligently (hoping to make some money). As a bonus, we can track her 401(k) contributions. I was never able to do all this tracking and statusing.

The ability to transfer money between accounts, such as checking to credit card may be easy, but I still have to go to the bank to do it. You see, I bought a modem enabling the use of Quicken's CheckFree to do electronic banking but have not installed it yet.

Statusing by a myriad of reports (47) is not only possible but so effortless it's almost mind-boggling. Our monthly dining out expenses were expressed as a larger percentage of total monthly expenses than we realized, and graphically astoundingly! My investment portfolio report shows me to pay more attention here now that I can read the prices in graph format. My nine-pin dot matrix printer does an okay job, but the program handles many laser printers.

A real sleeper for many of us who have some sort of small business, whether it be managing houses or consulting, are the features in the Business Reports section that will report by job or customer, cash flow, and other categories.

According to Quicken's User guide, the program is able to import data from other finance programs. I am hopeful and confident it will because I have data recorded in other finance organizer programs (Managing Your Money, MoneyCounts, CA's Money).

Cont. on p. 4

Quicken cont. . . .

Quicken Companion 2 for Windows

The second half of this evaluation report covers Quicken's Companion 2 for Windows. Accompanying it are CompuServe's introductory membership and a discount on TurboTax for Windows.

The Companion User Guide highlights home inventory, securities quotes and tax estimator. The Companion can work alone but the most benefit is gained when installed with Quicken as data is exchanged between the two.

The home inventory is almost as essential as daily investment account updates for it tells what important documents are located where and updates your total assets account, all of which have tax consequences. Unfortunately my modem is still in its box awaiting installation so my review of the stock quotes portion of Quicken Companion can go no further.

The versatility and depth of options of which Quicken is capable is almost incredible! It will take me a long time to explore Quicken's depth and breadth. When I do undoubtedly I will find something for which I will need HELP and Quicken's User Guide says FREE Unlimited Technical Support.

Well done Quicken Intuit!

✽

Book Review: Quicken 3 for Windows, A Practical Approach Chet Brisco

Reprinted from *Orange Bytes*,
North Orange County Computer Club

Book sections of computer stores are replete with titles promising "Grudge for Windows MADE EASY," or "WinGrudge Secrets for the Rest of Us." Titles like that. Most promise to make unfriendly programs user-friendly. They do not, but these after-market books are purchased with the ever-hopeful prospect that they will.

There was a time when software user manuals were written by programmers and, it seemed, for programmers, not for the rest of us. This has changed, at least for the more widely sold software such as Quicken 3 or any of the major word processing or spreadsheet applications.

The obvious way to evaluate *Quicken 3 for Windows* is to compare it with the Manual supplied by Quicken. It compares favorably; it is not better, just different. A typical explanation in the Manual comprises an entry-screen graphic (dialog box) with pencil-thin lines extending from relevant sections or buttons on the screen out to a block of

text that briefly explains the indicated portion's function. A typical explanation in *Quicken 3 for Windows* requires at least one, and sometimes a dozen paragraphs of text that refer to a dialog box on an adjacent page: the information is the same, the reader simply has to scan more text.

One result of this difference in styles between the Manual and *Quicken 3 for Windows* is that the latter is a book of 528 pages, while the Manual, plus the Getting Started Guide, is about 100 pages shorter.

While *Quicken 3 for Windows* is thorough, it is not free from error. On page 14 the reader is advised "If you're going to be working with Quicken regularly [This would be true, I suppose, if you have an income; if not, you don't need an accounting program.], I recommend that you familiarize yourself gradually with the keyboard commands. These are summarized inside the cover of this book." That is good advice (ignoring unnecessary verbiage), but the author failed to include the keyboard commands, whether inside the cover or on any pages between.

Another error appears in the QuickFill Preferences dialog box. QuickFill is the name Quicken gives to its auto-completion feature for recurring transactions. As transactions are entered, they are recorded if the QuickFill feature is enabled. Later, simply typing the first letter of a Payee, for example, results in auto-completion of the name and, if you desire, the amount and category (expense or income). The dialog box shown in *Quicken 3 for Windows* did not match the dialog box on my computer screen. However, since each feature that can be customized is clearly labeled, the error is not material to one's understanding.

Quicken 3 for Windows fails to tell you, as does the Manual, that the recorded entries used by QuickFill cannot be edited. Once they are recorded, they are inserted into an unidentified file forever, only to pop up when you rather they wouldn't. Thus, if the recording function is enabled, and the auto-completion function is on, attempts to correctly enter a previously-recorded erroneous entry may be defeated. For example, I entered an abbreviation for a payee, incorrectly using lower case type. Now, attempts to insert the entry in caps simply resulted in a quick and efficient rewriting in lower case. No one is perfect.

In summary, if you prefer instructions mostly in text, rather than those more diagrammatic and terse, you will find *Quicken 3 for Windows* a useful addition to your computer library. But, don't throw away your Manual. The Quicken folks did a pretty good job for the rest of us. ✽

Budgeting With Quicken

Craig C. Cornell

Reprinted from *Capital PC Monitor*, Capital PCUG

The most recent releases of Intuit's *Quicken* offer a feature that allows a user to budget and control expenses with more certainty than earlier versions.

Generally, following the regular monthly sequence of inflows and outflows, the balance in the primary checking account register displays the actual balance in the account. This can leave a user, at least temporarily, with the impression that this figure represents the available discretionary balance. The problem with this scenario is that the balance does not include prorated deductions for future expenses that occur infrequently or irregularly (such as gifts, insurance policy premiums, tuition, or tax payments, etc.). This creates the risk of funds being prematurely depleted, reducing a user's ability to meet critical expenses when they are due.

The "Scheduled Transaction" feature in *Quicken* allows the building of a budgeting and cash-flow control system to deal with this problem. The system that takes advantage of this feature, here entitled *Ensured Personal Budgeting*, is composed of three parts.

1. The creation of a separate account for each category of inflow and outflow transactions (such as accounts for auto fuel, auto service, home mortgage, gifts, savings funds designated for specific purposes, utility expenses, Federal and state taxes, etc.). There are likely to be up to 50 such accounts for an average household.

2. The scheduling of each regular inflow (such as paycheck) as distributed deposits into each of the accounts. The intent is to allocate the total inflow, before deductions, into those accounts in order to set aside funds for each type of expense, regardless of how frequently it occurs.

How the inflow is distributed into the various accounts would be based upon the total annual expected expense for a specific type of expense (such as a home mortgage), divided by the number of regular deposits (such as 12, 24, or 26). It should not matter how large or small a specific type of expense is. For example, if the annual expense for an American Express membership fee is \$50 for someone who is paid over 26 pay periods, \$1.92 should be deposited into the American Express Membership Fee Account each pay period. The leftover amount, after deposits into required accounts, if any, is to be deposited into an account that will later represent discretionary funds, perhaps an account called "Main" or "Primary."

3. The scheduling of all regular outflow transactions, whether electronic payments or paper

checks, regardless of frequency, out of the applicable accounts. An outflow may occur on a monthly basis or more or less frequently. A single check-printing session would include payables from multiple accounts. The electronic payment transactions can be set to be automatically entered into the applicable account registers or require manual confirmation.

The benefits of this system are:

1. Funds are automatically encumbered (set aside) for specific future needs whenever they may occur. Therefore, for all conceivable and inconceivable expenses (through the use of an Emergency Expenses Account), funds are regularly set aside in a disciplined manner.

2. Since the inflow distribution among many accounts is based upon expected expenses, it is an automatic form of budgeting. During the outflow cycle, for a specific account, the user can detect an outflow that is larger than the corresponding inflow and make adjustments.

3. At the end of a regular cycle of inflows and outflows, the amount remaining in the "Primary" or "Main" Account register is a true discretionary amount, since funds have already been set aside for other expenses.



Quicken Tip

Tim Mathis

Reprinted from *Orange Bytes*,
North Orange County Computer Club

Merging Categories

The nice thing about Quicken is that you create your categories as you go along. Unfortunately this can result in redundant categories. One time you use the category Publications and the next time you use Subscriptions.

You can merge these categories but the method is not intuitive.

First call up the Category list by pressing Control-C and move to Publications. Then press F8-Move. Publications is indented as a subcategory and can be assigned to any other category. Move the subcategory Publications to Subscriptions and press Enter to continue. While Publications is still highlighted press Control-D Delete.

Publications will be merged with Subscriptions.



SeniorNet

Ernie Stokes

Reprinted from *Sacra Bleu*
Sacramento PCUG

SeniorNet, 415-750-5030 (voice)

SeniorNet is an international network of computer users aged 55 years and older. It began as a summer research project in San Francisco by Mary Furlong and Greg Kearsley. The network has now grown into a community of nearly 15,000 computer-using seniors. Today, SeniorNet operates 58 Learning Centers throughout the United States and in New Zealand. SeniorNet also publishes a quarterly newsletter, *Newsline*, and operates SeniorNet Online, a telecommunications network for older adults.

The Learning Centers are staffed primarily by volunteers and rely on donations of hardware (PCs, printers, modems, etc.) from companies or individuals. The John and Mary R. Markle Foundation has been the primary funder of SeniorNet since 1986. SeniorNet also receives financial support from American Express, Apple Computer, AT&T, Bell Atlantic, Chevron, the Goldsmith Foundation, IBM, Microsoft, Nynex, and the Pacific Telesis Group.

The SeniorNet Online network is hosted by America Online, a commercial telecommunication information service. SeniorNet Online offers many forums where members can communicate on topics including gardening, economics, politics, jokes and limericks, and who will win the Super Bowl. Members receive a discounted rate for America Online service (currently \$9.95 per month), which includes unlimited time in the SeniorNet forum.

SeniorNet membership is open to anyone 55 years of age or older. The cost for an annual membership is \$25 for an individual or \$35 for a couple. American Express cardholders who are aged 62 or older are eligible for the "Senior Member" card, which offers extra advantages, and, importantly, subsidizes 50% of the SeniorNet annual fee. Members also receive discounts on a growing list of computer-related hardware and software products and a number of computer-related books and magazines.

For more information or membership applications, contact the headquarters of SeniorNet, 399 Arguello Blvd., San Francisco, CA 94118, 415-750-5030.

Software Review:

User Friendly Exercises

Don Rosenfield

Reprinted from *Orange Bytes*
North Orange County Computer Club

UFE, Stone & Associates, \$59.95 list

User Friendly Exercises (UFE) is a valuable program. At regular intervals, chosen by you, it takes over the computer suggesting a regimen of occupational therapist-recommended stretching exercises. They relax your eyes, your hands, wrists, and arms, your back and neck, etc.

When UFE suggests a group of exercises, a full-motion video shows you an actual model leading you through those exercises. Each series of exercises takes under five minutes. There are several such series or you can design your own series by choosing from the list of 24 exercises. You can override the Pop-up Menu for a given session either by pushing the Ignore button when you see it or by choosing Close on the System Menu. Permanent disablement (of that feature, not of you) requires the deletion of the load=UFEWIN.EXE in the WIN.INI file. UFE then is available by double-clicking its icon.

With repetitive motion injuries becoming a national problem, a program like this is a godsend. I suffer from carpal tunnel syndrome. For several years I had to wear wrist supporters in order to type. My wife (who is an MD), says that those who have the operation to fix the syndrome redevelop the problem. A single carpal tunnel claim can cost \$7,000 to \$100,000 and can leave the person permanently disabled.

Those employers that have people working with computers or typewriters need this program, if only to cut down on Workman's Compensation claims. Repetitive motion injuries are the fastest growing occupational disease of the 90s, making up 56% of those claims.

Other advantages of UFE: helps reduce sick days; helps reduce liability for computer injuries; helps reduce insurance costs; increases PC user efficiency; and increases PC user morale.

In addition to the exercises, UFE offers Ergonomic Hints. Looking at that section, I dropped the height of my chair by five inches.

UFE is available for users of PCs, networks, Windows 3.0+, MS-DOS 3.0+, and Macintosh 6.0.5 or newer. You need 5MB available on your hard drive for the Windows version, 3MB for the MS-DOS version, or 1.5MB for the Macintosh version.

Software Review: Dabbler 1.0

Steven Friedman

Reprinted from *Sacra Bleu*, Sacramento PCUG

Dabbler 1.0

Fractal Design Corp.

POB 2380, Aptos, CA 95001-9973

\$99 list. Bundled packages, including stylus pens and tablets, are also available.

What do you do with a totally revolutionary drawing program, one that is extremely powerful but is a disk-, memory-, and CPU-hog, one that is high priced and geared toward professional graphics designers? If you are Fractal Design Corporation, you take your flagship Painter 2.0 program, scale back the features, eliminate help files, and reduce the documentation to a few pages. The result is Dabbler, a lean but exciting, low cost drawing program that will knock your socks off. Forget any marketing hype about it geared for kids; this is a program that is great for all ages.

Dabbler has a list price of under \$100 and a street price of about \$70. It still requires about 10M of disk space and fast CPU. You also need a fast video card that can support 256 colors in standard 640 by 480 resolution. You can use your standard mouse, but if you really get serious about drawing in Dabbler, you may want to get a pen-and-tablet mouse. Fractal Design even offers a package with a stylus mouse and tablet bundled with Dabbler's software.

If you think that Dabbler is just another paint or drawing program, guess again. What makes Dabbler unique (with the exception of its brothers, Painter and Sketcher) is its incorporation of natural media. The program's tools simulate the use of brushes, pens, chalk, and spray paint, achieving results that look very much like their real life counterparts. You'll find layering effects, bleeding colors, and surface textures to suit all needs. Also included are a number of special effects for mimicking the styles of famous artists. Additional effect modules are also sold separately.

The program's design is very intuitive. To select a tool you open a drawer and double click on the tool you want to use. Sound effects also accompany each selection, but these really add

nothing to the program. Most of the icons are very self-explanatory, but you'll want to crack open the manual to find out how to use the "friskets" and tracing paper options.

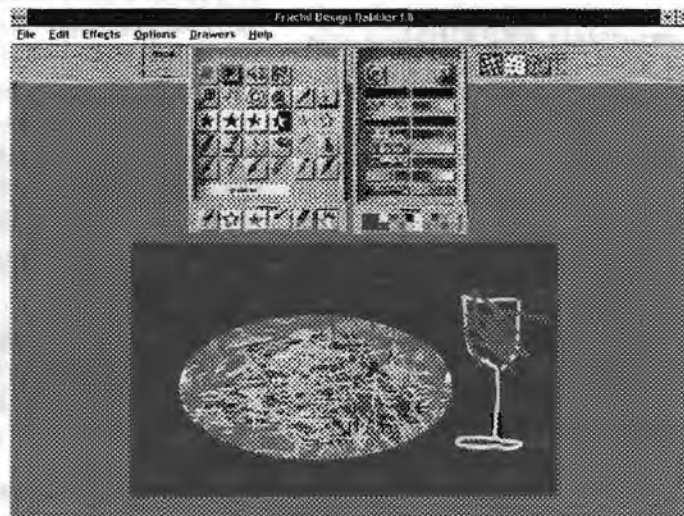
If you're like me and have never been able to draw anything better than a stick figure, take heart. The package includes Walter Foster's Learn to Draw Book along with demos that play back, stroke for stroke, the creation of some of the drawings in the book. There are even explanations of how and why certain effects were used.

You can save your finished masterpiece in its native format or export it to EPS or TIFF format. To print a drawing you will need either a Post-Script printer or one that supports the Windows GDI.

My own trials with Dabbler captivated me by how realistic the brush and pen

effects were. Using the friskets can be frustrating and you'll probably want to go over the manual one or two times. The lack of any help files does seem a bit of a handicap here. The selection of tools can also be frustrating at times.

The system requirements for this program demand more than the typical, bargain basement system. You'll need to have a video card and video driver that is capable of displaying 256 colors in 640 by 480 mode. For many users this will mean having to go into the control panel and dig out the driver disks that came with your video card, and add the 256-color driver that came with the card. A Local Bus or PCI video card is really a help here since the software is very graphics-intensive. On a slow video system, you'll find yourself waiting for the pixels to catch up to the mouse path. Having 8M or more of RAM and a fast CPU is also a big help—Dabbler will run intolerably slow on a 386 system.



Roadmap: Interactive Internet Training Workshop for the Information Superhighway

(Ed note: Message posted on CompuServe last fall.

Contact P. Crispen to inquire about upcoming free workshop.)

WHAT IS ROADMAP?

Roadmap is an Internet training workshop designed to teach both new and old "Net travellers" how to travel around the rapidly expanding (and often times confusing) "Information Superhighway" without getting lost.

Using the latest information available coupled with guest lectures from some of today's most respected Internet leaders, Roadmap promises to be one of the most talked-about Internet training seminars in history!

... and, best of all, its absolutely FREE!!!!

HOW MANY PEOPLE HAVE ALREADY SIGNED UP FOR ROADMAP?

When the first Roadmap workshop closed its enrollment on August 22, 1994, there were over 16,000 people from 63 different countries enrolled. The second Roadmap workshop in October promises to be even bigger!!

WHAT SORT OF INTERNET ACCESS DO I NEED TO PARTICIPATE IN ROADMAP?

All you need is e-mail (although it would be nice if you also had telnet access). Since a substantial number of Roadmap participants only have e-mail access, the Roadmap workshop sessions will teach you how to use the tools of the Internet directly and also how to use these same tools using nothing but e-mail.

WHEN DOES ROADMAP START?

Mid-October, 1994!! If you have signed up to the Roadmap list early, FANTASTIC!! Stick around and over the next couple of weeks we'll keep you updated as the date draws closer!

HOW LONG WILL ROADMAP LAST?

The Roadmap for the Information Superhighway workshop will last about a month. One Roadmap lesson a day will be e-mailed to you starting in mid-October, and a normal daily lesson will take no more than five to ten minutes to complete.

WHAT ELSE DO I NEED TO DO?

Nothing! In mid-October, the ROADMAP Listserv will automatically e-mail you a copy of each day's Roadmap seminar lesson.

WHAT IF I GO OUT OF TOWN AND CAN'T CHECK MY E-MAIL EVERY DAY?

No problem!! The Roadmap workshop lessons will be e-mailed to you just like any other normal piece of e-mail. If you can't check your e-mail box on a regular basis, the Roadmap lessons will sit around in your mailbox until you have time to read them. The entire Roadmap workshop is self-graded and self-paced; there is ABSOLUTELY NO WAY that you can fall behind!

If you are still concerned about missing a lesson or two because of travel, you might want to consider dropping out of this workshop, and subscribing to a later Roadmap workshop. The command to unsub-scribe from this workshop is listed at the bottom of this letter, and you can contact Patrick Crispen to find out about future Roadmap workshop sessions.

HOW CAN MY FRIENDS & CO-WORKERS SIGN UP?

Easy! Just have them send an e-mail letter to `LISTSERV@@UA1VM.UA.EDU` which says `SUBSCRIBE ROADMAP YOURFIRSTNAME YOURLASTNAME` in the BODY of their letter.

We will take care of everything else!!

THANK YOU again for enrolling in Roadmap, and I hope you will enjoy the workshop!

If at any time you need to unsubscribe from ROADMAP, please send an e-mail letter to `LISTSERV@@UA1VM.UA.EDU` which says "UNSUB ROADMAP."

PATRICK CRISPEN
`PCRISPE1@@UA1VM.UA.EDU`
THE "ROADMAP FOR THE INFORMATION
SUPERHIGHWAY" INTERACTIVE INTERNET
UNIVERSITY OF ALABAMA
"ROADMAP" LISTOWNER

The views expressed in this letter do not necessarily represent the views of the University of Alabama - Tuscaloosa.

The Norton Utilities 8.0: Don't Leave Home Without Them

Paul Sherman

Reprinted from *Westchester PC News*, Westchester PCUG

The Norton Utilities are like a fine wine. They just keep getting better. Unlike fine wine, however, they also keep getting bigger as computing becomes more complex and housekeeping duties expand. My previous version, no. 6, occupied some 2.5MB on my hard drive while the present version occupies over 9MB. That's a lot of extra space but evolving computing methods seem to justify it.

For example, whereas previously Norton's famous Speedisk disk defragger existed in DOS version only, there are now both DOS and Windows versions. In the old days of about three years ago you had to exit Windows to DOS to run Speedisk. Spending most of my time in Windows I tended to neglect the chore of defragmenting and was shocked to see upon running the new Speedisk (in DOS) that 40% of my drive was fragmented. Speedisk defragmented about 150MB of files in 26 minutes including directory ordering and placing .EXE and .COM files first. I also used Write Verification for safety which slows things down a bit. Clearly, it's fast and efficient. My hard drive is really humming now and my only complaint is that the directory order you can specify is quite limited.

The real boon here is that now I can run Speedisk under Windows and especially have it run in the background. As in all Windows installations, Norton utilities sets up its own program group so you can just click the Speedisk icon and have it run as you work. When the Windows version detects a pause in foreground activity it begins optimizing your disk although should you write a file to disk while this is occurring Speedisk must start over. Nevertheless there is now no reason ever to have a fragmented drive again with this utility running in the background. Also new to this version is a Windows version of Norton Disk Doctor, which can also run in the background.

Track Your INIs

As mentioned, Norton installs a program group for the Windows utilities which include, beside the new Speedisk, a System Watch to inform you of the state of your Windows resources, and four utilities to deal with your .INI files. I immediately deleted the Microsoft equivalent of System Watch since the Norton version is so much clearer and easier to understand. With the utilities to track your .INI files you can take a snapshot of the present state of your system initialization files specifying which files to include. I specified

AUTOEXEC.BAT, CONFIG.SYS, WIN.INI and SYSTEM.INI for starters but you can include many more. Then as changes are made to these files by your applications, new applications, etc., you can compare the old versions with the new to see what exactly has changed. This is important since new applications add lines to your .INI files and DOS startup files but these lines are not necessarily deleted when you remove the application from your drive. Deleting directories on your hard drive removes the application, of course, but the initialization lines it wrote in your startup files remain. With Norton's INI Tracker you can compare the old and new versions and know exactly what lines can (and even should) be removed. It is important to do this as every initialization line requires some RAM and therefore detracts from resources available to Windows for your work. You don't want to carry unused baggage in memory.

Something I found particularly nice here is an explanation of what all those odd lines are actually for in WIN.INI and SYSTEM.INI. The Windows manual makes it a point of honor to tell you as little as possible about them but Norton takes the opposite view. With INI Advisor you can read descriptions of all these strange lines and see what they do. In fact you may discover that your particular setup doesn't even need some of them in which case you should delete them. Even if you're not inclined to such technical waffle, there are also several lists of tips on how to make your machine run more efficiently. For this, you don't need to be a technical person. Whether you're running under DOS or Windows there are good, clear instructions for optimizing your machine. Just follow the step-by-step directions.

Windows and DOS Groups

Beside the Windows Group that installation inserts with its Windows related utilities, Norton also inserts a DOS group. Here you'll find such well know utilities as File Find, File Fix, Norton Change Directory, and NDOS, the Norton version of 4DOS. There is even an icon in this group for the Norton Integrator menu from which all the DOS utilities can be accessed. Considering the limited space on one's screen, a separate Program Group for the DOS utilities seems unnecessary. I placed the NI icon in the Windows Group and now access all the utilities from there. It takes a little longer but I gain space on my screen.

Cont. on p. 10

It's nice to know something about the performance of your system. What exactly does it consist of in terms of CPU, disk, video, etc. How does it compare to other systems, for example, in processing power, video display, and disk speed? In previous versions of Norton's System Information, Norton compared your computer to a Compaq Deskpro386. Now it compares your system to a Pentium-66. I used to feel good knowing my 486DX/33 was so much faster than the Compaq but now I have to wonder. Norton rated my machine (and other 486/33s) at 50 while it rated the Pentium with a Western Digital drive at 146. Well, what did I expect?

Knowing all these data may give you bragging rights but it doesn't make your daily computing tasks any easier. Still, if you're into adding boards, drives and other technical issues, the Norton Diagnostics tells you every possible thing about your machine. Perhaps most important it gives a complete listing of the interrupt status of your setup so you can solve interrupt conflicts.

Solving interrupt problems can be a major headache when expanding your machine so now you know exactly which interrupt controls which device. This utility, however, runs only under DOS.

As usual for Symantec products, the manual is well written, giving clear directions on the purpose of each utility and how best to set it up. If you don't like reading manuals (and who does?), there is plenty of well written help on line. Moreover, if you're new to computing the manual includes three tutorial chapters on file recovery and disk safety and performance that are well worth your time reading.

You obviously won't need all the many abilities included in the Norton Utilities v8.0. Everyone has his or her favorites depending on individual work style. I certainly have mine and I never leave home without them.



ChipWreck and Rescue

Problem: The Pentium chip can produce a wrong answer in division in the fourth to nineteenth digits after a decimal.

Example: $5,505,001 \div 294,911$
Pentium answer: 18.666000093
Correct answer: 18.66665197

Resolution: Call 800-628-8686 for info on chip replacement (...a Repentium!).

A Look at PC Tools 2.0 for Windows

Lance Whitney

Reprinted from *Westchester PC News*, Westchester PCUG

Central Point Software's PC Tools 2.0 for Windows is a lot like its DOS counterpart. It boasts so many features that describing them all would turn this into the War and Peace of software reviews. It's safe to say the program more than meets the goal of a good utility. It expands upon many existing features and functions in Windows. And it offers all the commands Microsoft should have thrown in, and then some.

The Perfect Desktop

The starting point for PCT for Windows is Desktop, a replacement for Windows' Program Manager. More versatile, flexible, and powerful than Program Manager, Desktop is more than just a place where you hang your icons. One highlight of Desktop is its MultiDesk feature.

Windows' Program Manager is awkward for multitasking because the more windows you open, the more cluttered your screen becomes. MultiDesk lets you set up several virtual desktops, each with its own unique windows and applications. Put your word processor and all its folders and files in one desktop, and your spreadsheet, its folders and files in another desktop. Then switch back and forth between them. It's a much cleaner and clearer way to work.

PC Tools' Desktop reminds me of a Macintosh. Just like on a Mac, you can nest files and folders within other folders. Each subdirectory can have its own folder stored in an application's main folder. You can also synchronize directories and folders. If you alter files in a directory, its folder automatically updates itself. Files in a folder can appear as icons, names or both. And Desktop can display any icon, whether group or individual file. Those are just two of the many things Desktop can do that Program Manager can't. You can still access PC Tools' features from Program Manager, so you don't have to run Desktop as your shell. But once you try it, you won't want to go back to Program Manager.

Managing your Files

Windows' File Manager is limited and awkward in many ways. PC Tools comes to the rescue with its own File Manager, a welcome improvement. Beyond the usual commands, this File Manager has several unique and handy tricks up its sleeve. File viewing is one key ingredient. In Windows' File Manager you can only view a file if it is associated with an application. If you have no application to support the file, you're out of luck.

PC Tools' File Manager has a built-in file viewer. You can view almost any file, including most popular word processing, database, spreadsheet, and graphics formats plus the contents of compressed files.

I also liked the sorting and selecting functions in PC Tools' File Manager. Windows' File Manager gives you little control over the files you can select. Say you want to tag every file in a directory except the *.EXE files. You can't do that in one shot in Windows' File Manager. But in PC Tools you can select files with certain names, then invert that selection. Tell PC Tools to select all the *.EXE files, then invert that, and it will tag all files except the *.EXE ones. Another handy feature is SmartFind. You can search for any type of file in any directory, or search the contents of your files for specific text. File Manager also lets you compress and uncompress files using the PKZIP 2.0 format. All the handy PC Tools functions, such as Undelete, Back-Up, and Anti-Virus are also accessible here.

PCT for Windows sports a separate File Viewer that lets you see more than 100 different types of files. Most graphic formats from CGM to WPG are supported, as are the usual word processing, database, and spreadsheet files. I threw a bevy of different files at the File Viewer and it read almost every one. It choked only on the WPG 2.0 format for WordPerfect graphics. You can scroll up and down or zoom in and out. You can only view one file at a time. That's my only complaint. There's no way to visually compare two files at once.

Doctor on a Disk

PCT for Windows isn't a bad disk doctor. It has several safeguards to make Windows a kinder, gentler place to work in. There's a resource gauge called CrashGuard. It's a small bar that appears on your desktop and keeps track of your Windows memory usage, system resources, and disk space. PC Tools warns you if one resource gets too low. I tried to trigger the CrashGuard alarm by opening one application after another. When Windows' system resources dropped below a certain point, CrashGuard alerted me and suggested I close some programs to free up memory. Another feature called INI Consultant explains each line in your autoexec.bat, config.sys, and Windows INI files in ordinary English. That a boon whether you like to fiddle with your setup files or just understand

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what's in them. You can even edit your INI files on the spot. PC Tools' System Consultant examines your system, hardware and software, and recommends ways to improve performance. After scoping out my system, it offered me a few suggestions. It advised me to add "NoEMMDrive=On" to my SYSTEM.INI file if I wasn't using any programs that required expanded memory. It told me to switch from a temporary swap file in Windows to a permanent swap file. And it suggested I reduce the number of buffers to improve the performance of my cache. If you accept one of its suggestions, PC Tools makes the change for you. And if the change doesn't work, the program can undo its actions.

Round Up the Usual Utilities

PCT for Windows offers the usual utilities that made its DOS version popular. You'll find Disk Fix which repairs cross-linked files, lost clusters, and other disk problems. Central Point Anti-Virus works the same as it does in the DOS version but includes more option and can now detect more than 2,000 different viruses. Optimizer defragments your hard drive. And of course, a full-featured backup program will back up your files on floppy disks or tape. All these utilities performed without a hitch, though some ran slower than their DOS brethren. You can run all these utilities in background, however, so they won't take up your computer time. Diskfix and Optimizer handle hard drives compressed with DoubleSpace but not with Stacker. Central Point is working on a patch file to let these utilities work on Stacker drives.

Little Things Mean a Lot

I liked the little things in PCT for Windows, such as its popup menus. Clicking on the right mouse button in any PC Tools utility brings up a context-sensitive menu of commands. I also welcomed a feature called File Companions. As a rule most Windows applications lack basic file management commands. If you want to delete or rename or view a file while you're in an application, you have to get File Manager or Notepad. Not with PC Tools. File Companions are little pull-down and popup menus that set themselves up in your applications. If you're in a file dialog box in any Windows program, click on the File Companion button. Up pops a PC Tools menu of handy file commands—rename, delete, edit, copy, view, etc. Other useful features include: a screen capture utility, an Icon Editor, and a Quick Launch command to quickly start applications you often use. It's hard to think of a feature Central Point forgot.

There are some advanced commands here, too. With the Script Tools feature you can create macros to automate your Windows work. Create a macro simply by turning on the Script Tools recorder and having it record your actions. The macro recorder recognizes both keystrokes and mouse movements. I recorded a few macros, and PC Tools ran them without a hitch. You can manually write a macro but that requires more effort.

Flexible, Fun and Easy to Use

PCT for Windows is flexible. You can customize your desktop, menus, icons, toolbars, and assorted utilities to make them fit the way you work. And you'll probably find PC Tools a fun place to work. I was zipping back and forth between my applications faster and more smoothly than I ever did in Program Manager. PC Tools actually makes Windows a pleasure to work in. Despite its barrage of features, the program is easy to set up and use. A brief online tutorial gets you up to speed on the basics. You're led through certain procedures, such as setting up your Desktop, making them simple to run. I rarely had to consult the manual except on more advanced features. The manual is clear and well-written but skimpy in areas. I wanted to know how to edit the File Companion's menu to add commands to it. The manual tosses off a brief one liner on this, hardly in-depth information. The online help is fine, sometimes better than the manual.

Central Point offers free technical support for 30 days starting with your first phone call. After that you can call a 900 number for a per-minute charge or an 800 number for a per-call charge. It's unfortunate Central Point offers only 30-day free support. But this is the direction the entire industry seems to be moving in. To take up the slack, the company provides a fax back service and automated tech support via an 800 number. PC Tools for Windows has a street price of \$90-\$95 for new users and an upgrade price of \$50. For literature or more information, call Central Point Software at 800-964-6896.

Microsoft is now hard at work on the next version of Windows. They'd be wise to pick up some tips from the folks at Central Point. PC Tools 2.0 for Windows is the kind of product even a DOS diehard can learn to love.

Kurzweil Voice for Windows 1.0

Toni Federe

Reprinted from *Readme.doc*, Orange Coast IBM PCUG

Kurzweil VOICE for Windows 1.0

Kurzweil Applied Intelligence, Inc., Waltham MA

Distributor: Sone Systems, Orange, CA, 714-639-3321

\$995

I know that many of us have been talking to our computers for years. I know that there have been many times when I wasn't alone in wishing that it would *listen*. My computer not only listens to me but it *obeys*! (I wonder if they make an implant model. I'd like to install one in each of the kids, maybe the dog and two for my husband.)

This is so incredible! I'm discovering new things I can operate by voice almost every time I use my computer. Kurzweil VOICE for Windows is easy to install. It has a slick, interactive tutor to aid in the learning process, and the beauty of learning it is that I don't have to change whatever functions are currently my favorites to use! Now, I just *say* the command instead of mouse-clicking or typing. I can pull down the menus by voice and then verbally select the operation I wish to perform. If it's a command I use often and know, I can proceed directly to that task. For instance, in WordPerfect I can say *layout-font* or *tools-thesaurus* to open the thesaurus or *view-reveal codes* to turn reveal codes on or off. Occasionally, I get very lazy. Then I dictate everything! I find that I truly enjoy my new verbose, hands-free computer life.

Dictation is a convenience. It enables me to stuff envelopes, or perform some other mindless task, while I dictate. If I'm feeling moody, I'm able to switch back and forth from voice to keyboard to mouse. The microphone, keyboard, and mouse are always fully interactive. The real power begins to show if I use macros. Kurzweil VOICE allows the creation of voice macros for any application that allows the user to create keyboard macros. This system enables an incredible amount of functionality. Whenever I need a break, I can take it right at my computer! My personal productivity is increasing on a daily basis. (Soon I'll be impressing myself!)

As I dictate this review (in WordPerfect 6.0a), I'm listening to my favorite country-western radio station. Room noises are of little consequence. There are conversations going on in the background, and my windows are open. I can hear sirens and kids playing in the street. It's having no effect on my dictation. If the background noise rises to a level that does interfere with Kurzweil VOICE,

I can compensate for these changes by saying *sound-levels*, and the system will take a background noise reading for a few seconds and then prompt me to say the numbers one through eight. It is also possible to adjust the *mike gain* to receive sounds only within a foot of the microphone. The headset is lightweight. It doesn't mess up my hairdo. That's very important.

There are some systems which claim to offer recognition of continuous speech. They do, and Kurzweil VOICE does too. *But don't expect continuous speech for anything but commands.* Kurzweil VOICE is the most powerful system I've ever seen. (I'm so impressed with this product that I've become a sales rep! So, yes! I'm prejudiced.) The 30,000 word active voice vocabulary includes 20,000 predefined words and allows the user to add an additional 10,000 personal words. The 60,000 word active voice vocabulary includes 40,000 predefined words and can accept 20,000 additional personal words. In addition to the 60,000 word active voice vocabulary, there is also a 200,000 word spelling dictionary included. Not only am I able to dictate my written communications (without any spelling worries!), but I'm fully empowered to edit by all the cut-and-paste methods available by keyboard.

I'm not a power user of database programs, but I'm able to dictate in Quattro Pro in my own rudimentary way. During all dictation there must be a slight pause between words. This is called *discrete speech*.

The first habit to create was to dictate with a clipped word delivery. Once I realized that I didn't have to wait for the printed word on the screen, I forced myself to trust Kurzweil VOICE and to dictate more quickly. I haven't been clocked, but I'm sure that I'm dictating much faster than I've ever been able to type. I think that my best endeavor on a keyboard was about 35 to 40 words per minute. I'm dictating at least that quickly.

Kurzweil VOICE requires no training of the system on the user's voice. It can be used immediately upon installation and automatically

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adapts to your speech and language patterns. Out of the box, recognition for most American accents is about 80%. Over time, recognition accuracy is boosted to 95% or better. Error correction is a breeze! Adding new words is an equally simplistic process. The military alphabet is used to verbally spell words and names that are not included in the voice vocabulary. The application navigation commands are included for approximately 30 popular software products such as WordPerfect, Calculator, Cardfile, Clock, Write, Lotus Ami Pro, Microsoft Word, Lotus cc:Mail, Lotus Freelance Graphics, WordPerfect Presentation, WordPerfect Office, WordPerfect Informs, Microsoft Forms Designer, Lotus Organizer, Calendar, etc., etc., etc.

Kurzweil Applied Intelligence, Inc. is a leader in the speech recognition field with 14 years of experience in application development and customer support. Kurzweil AI products are based on the industry's only speech recognition technology that combines three vital elements: speaker independence, speaker adaptiveness and a very large active vocabulary. To put it simply, within a few hours of usage I was correcting my dictation only about 8% to 10% of the time.

The interest in voice recognition is explosive. Voice recognition software is currently being reviewed in most of the major publications. Some computer manufacturers are already shipping models that include a microphone. Compaq is now including a warning label on its keyboards about repetitive stress injuries. Not too long ago, a mouse was the foreign object. Now, every standard configuration automatically includes one. I think a microphone and voice recognition will follow the same evolution.

This review was dictated using Kurzweil VOICE for Windows.

ECO Turns Me Green

Dana Trout

Reprinted from HUG News, *The Goleta Publisher*
and excerpted from *Redwood Chips*,
PCUG of the Redwoods

My Seagate drive—and many other drives now being introduced—has a reduced-power mode, so it can qualify for the Energy Star program rating. That means computers built with these drives have the potential to qualify also (they can't if the drives cannot be put into a reduced-power mode). The default setup is for the drive to go into idle mode after 25 seconds (that was the clunk I heard) and spin down after 30 minutes timeout, but the 25 second timeout was too short. The response time of the drive after it went into idle mode seemed to be about two seconds (which seems like forever if you are typing and Windows suspends updating the screen, while it is waiting for the disk). I don't know how long it takes the drive to respond once it spins down. I'm not sure any of this makes sense, because the drive consumes only 5 watts when active, 3.5 watts when in idle mode. Say we have two drives in the computer, that's 3 watts difference between active and idle. But the color monitor consumes 30 times that amount. Sure, if the monitor also has a reduced-power mode, it consumes far less than normal power when it blanks, but my point is that while I'm typing, mousing, or whatever, the monitor will not blank because it keeps getting new information. But the disk doesn't know diddly-squat about the keyboard and mouse activity, so it goes to idle mode, reducing the total power consumed by the system by a whopping one or two percent. The annoyance of a slow disk access more than makes up the penny per year saved by the drive going to idle mode after 20 seconds of disk inactivity.



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Modem Futures

Mark A. Naber

Reprinted from *Sacra Bleu*, Sacramento PCUG

"The times, they are a changin'" is true now more than ever. This year the International Telecommunications Union (ITU) was expected to approve a new standard for the next generation of modems. This standard, called V.34 (and pronounced "v dot 34"), will allow transfer speeds of up to 28,800 bps. Once approved, the standard goes out for comment in the industry, which means that the new modems probably won't be available until late in the year.

There are also proposals to add other features, such as faster modem handshaking and negotiation at the start of calls, but those additions are not expected to make it into the standard's first release. Currently, if you call someone with a modem capable of 14,400 bps (V.32bis), the handshaking and negotiation frequently takes more than 15 seconds from the time the remote modem answers. This includes the time for error correction to enable. The new specification for this procedure, which is being called V.8, may reduce this time to between five and ten seconds.

The V.32bis standard is in itself a modification of the original V.32 standard. The bis suffix is from the French language word for "second." The V.32 specification allowed for 9,600 bps operation, and was amended when the speed rose to 14,400 bps.

Instead of waiting for the new V.34 standard, some manufacturers have started to release their own versions of faster modems. Some of the names used by the manufacturers include V.32terbo, V.fast, and V.FC. Though most vendors say their units will be upgradeable to the new V.34 specification, they should be considered proprietary for now. Messages on several echo nets have related the frustration of some users at their inability to connect to new modems from other manufacturers. In addition, some users have been unable to connect to some of the current standard modems. If you are considering buying a new modem in the near future, think twice before buying into one of these proprietary standards.

The new standard modems will be subject to changes and upgrades in the firmware for the first few months. For most modems, this will mean occasional replacement of one or more chips. You may also be able to load new firmware by way of flash memory, which allows the rewriting of an existing flash memory chip without physical removal. In the future, you are likely to see more of this type of technology upgrade, as the cost of sending a file on diskette is frequently less than sending new chips.

Another technology to watch for is the use of a Digital Signal Processor chip (DSP). These already are used in some of the more expensive sound cards, and will likely be moving to other areas soon. They are able to handle conversion from

digital to analog, and vice versa, very quickly. In the near future you may not have a physical modem: a chip may be able to emulate one, sending the necessary information to an adapter connected to your computer.

Integrated Services Digital Network (ISDN) is another technology that has been in the news lately. Pacific Bell recently announced a plan to connect all the schools in California to this new network in about three years, facilitating an exchange of presentations and classes. The service will be provided free of charge for one year by Pacific Bell, after which a special educational rate is planned. The cost of each school's equipment isn't included, however, and schools will need to find funds to make the connection happen.

ISDN can use existing copper wire to transmit video, audio, and data. There are three channels defined in the current standard. There are two "B" channels rated at 64 kbps (or kilobits per second) each, and one "D" channel rated at 16 kbps. This is a combined capability of 144 kbps, ten times the current modem rate. These channels can be combined when needed to add capacity for various needs. For instance, to have a video conference, you will need both B channels to carry the video and sound. The D channel can then carry data between sites. Alternatively, each channel can be isolated, and sometimes individual channels support multiple uses.

Pacific Bell has a tariff request before the California Public Utilities Commission to create a home ISDN service at an estimated cost of \$35 per month. Currently, if you want ISDN in your home, you are required to get measured business service. This stems from the requirement that all residential telephones be able to call 911 service at any time. Standard telephones do not require power in your home—you are still able to make a call if the power is out. The current ISDN adapters require power from your home, and would be inoperative after any event that interrupts electrical service. Alternatives to this are being researched.

As all of this technology becomes available, it may be possible for you to call the telephone company when you move to a new location, and change the service to the new location during that call. It may even come to the point where you will take your telephone number with you wherever you move, whether it be across town or across the nation. Soon your telephone "address" may become the most important piece of information for anyone sending anything to you. The old street address may only be needed when someone will physically need to see you. Our global village is changing as we speak.

30

The Top Ten

Reasons for the ~~Chicago~~ Name Windows 95

1994 Top Ten

10. The number of floppies it will ship on.
9. The percentage of people who will have to upgrade their hardware.
8. The number of megabytes of hard disk space required.
7. The number of pages in the "Easy Install" version of the manual.
6. The percentage of existing programs that won't run in the new operating system.
5. The number of minutes to install.
4. The number of calls to tech support before you can get it to run.
3. The number of people who will actually PAY for the upgrade.
2. The number of Mhz required for the operating system to run.
1. The year it was DUE to ship.

1995 Top Ten

10. The number of divorces in the Windows 95 development team.
9. The number of "undocumented" function calls already distributed on the Net.
8. The average number of days it's been since a Windows 95 kernel developer has seen his or her kids.
7. Number of holes punched into drywall by short-tempered development managers.
6. The average number of stock options an employee will get for all his or her efforts.
5. The number of lawyers needed to beat off Janet Reno.
4. The consecutive number of women that turned down Bill Gates' offer of a date before he started hitting on employees.
3. Percentage of people who say that even though they prefer Apple, they'll instead buy a PC running Windows because there isn't enough software for the computer they really want.
2. The year that Dell started selling PowerPCs.
1. The year that Bill's wife dumps him for a center on the Seattle Supersonics.

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DISK OF THE MONTH



January 1995 **Communicate – Connect – Link**

An all-DOS disk. Four communications programs good for beginners and old hands; phone dialer; modem diagnostics; info files on fast UARTs; utilities for using phone line for modem/fax/voice/answering.

SPAUG Thanks



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Renewing Members

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Wednesday, Feb. 1, 7:30 PM, 1670 Oak, Menlo Park
For info, call Bev Altman, 415-329-8252

PRinT SCreen Mailing Party



Monday, Feb. 6, 7:30 PM, 804 Los Robles, Palo Alto
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★ DISK of the MONTH INVENTORY



9501	DOS	Util	SMIIBC	Free communications program
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	DOS	Util	CILINK3D	BBS communications program
	DOS	Util	MLK105	Many-featured communications program
	DOS	Util	COMPT25	Display ports/UART/IRQ. Network aware.
	DOS	Util	COMSET9	Test/initialize/reset modem/serial ports
	DOS	Util	EDIAL33A	Easy modem phone dialer
	DOS	Util	HSTSETS	Setup tips for USR/HST/DS 14400 modems
	DOS	Util	MODEMD52	Modem Dr. Modem/UART diagnostics
	DOS	Util	PRIVACC	Phone share for fax/answering machine
	DOS	Info	PMDPGUID	Describes modem initialization codes
	DOS	Info	UART16550	Info about fast UARTs
	DOS	Info	USRTRAD	USR Trade offer for 9600 bps modems
	DOS	Util	VISM0D30	Exam/alter USR modem settings
	DOS	Util	WHATI275	Use phone for modem/fax/voice calls
9411	WIN	Appl	SNAPDL	SnapGraphics. Presentation program.
9410	DOS/WIN	Game	SPIDER10	Crawling spider
	DOS/WIN	Util	CATDIZK	Disk catalog system
	DOS/WIN	Util	MEMPRO	Memory status/analyzer
	DOS/WIN	Util	SABDU240	Copy, format and compare disks
	DOS/WIN	Util	ZIP2EXE	Make executable files from zipfiles
	WIN	Util	CDPLAY10	Play audio CDs on CD-ROM
	WIN	Util	DAGW	Hard drive usage charts
	WIN	Util	USWTHRWN	US weather map
	WIN	Util	WHIZNOTE	Notepad
	WIN	Info	WW0335-1	MSappnote: Win3.1 mem management
	WIN	Info	WW0524	MSappnote: Troubleshoot UAEs
9409A	DOS/WIN	Game	EPICPN	Sound and fury of a pinball machine
	DOS/WIN	Game	CCHECK	Challenging Chinese checkers games
	DOS/WIN	Game	TANGRM	50 intriguing VGA graphics puzzles
9409B	DOS	Util	CLEAN117	Remove viruses from computer
	DOS	Util	VSHLD117	TSR. Shield against viruses.
	DOS	Util	SCANV117	Scan memory, all disks, files for viruses
	DOS	Info	FREEBIE3	Lists supplies for crafts/hobbies
	DOS	Util	BOOKFORM	Print in book form. Freeware.
	WIN	Util	SCRNCAPT	Screen capture program
9408	DOS/WIN	Games	FUZION, SOLSUITE	
	DOS	Utils	ORG212, CNG200, DIRSIZ11, SUBZIP21, ZIP2EXE	
	WIN	Utils	CUTPASTE, FINDIRQ, ZIPTV21, RNR121, WUNZIP107, 4ALNCH11	Shareware and freeware.
9407	WIN	Game	BLACKOUT	
	DOS	Utils	DDP20, DISKFAC1, EZBOOT20, FISH3, GRPED, TOOLQB20	
	WIN	Utils	WINDUPE, WINDUI2, WINDOAD, WNVEL141	
9406	WIN	Util	Selections from <i>Windows 3.1 Secrets</i> , B. Livingston. Shareware/freeware. 2 disks.	
9404	DOS	Utils	CMOS_RAM, SCRNCAPT, FREEMEM	
	WIN	Util	WINEXIT	Exit Windows easily
9403	DOS/WIN	Game	XARGON	
	WIN	Util	WINSAW	
	DOS	Misc	LAUGH, QUOTES, WOWSPILL, JMIS	
9402	DOS/WIN	Games	POKER, CHECKERS, KLOTZ, TAIPEI	
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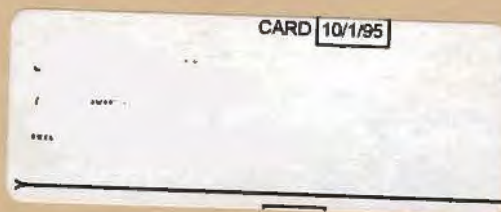
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