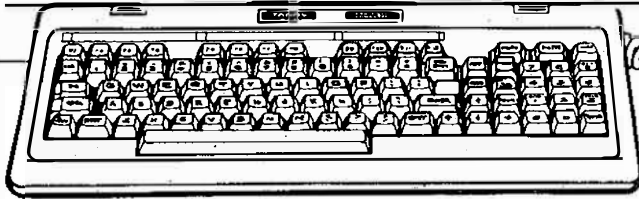


# The Tandy 2000 Orphans' WHIMPER



year IV, issue 7: January 23, 1990  
© 1990 by Tandy 2000 Orphans  
David R., coordinator

## No More Apples for the Teacher

Some of you should do what I'm doing in Westport, to give America's kids a fair chance at the computing power they'll need to get ahead in business. I'm trying to get the Apples out of our schools.

While IBM was reluctantly seizing control of corporate desks in the 80's, Apple was slyly seizing control of the schools. Apple now has a stranglehold, and it's tightening.

IBM compatibles are the standard of the business world. They have 90% of the machines already, working toward 100% as three things happen:

1. New computer users in little companies like dry cleaning shops go from Ataris, Apples, Commodores to their second computers, which will be compatibles.

2. The big companies move from mainframes and mini-mainframes to the very powerful high-end PC's, networked.

3. Compatibles wipe out the Macintosh lead (now down to a year) in graphic arts programs, the only thing a Mac does well.

4. The average newcomer to the job market becomes more computer-literate.

### Apple Turnover

After this has happened, jobhunters who need training wheels in their blank-screen PC's will be losing jobs. Clerk-level newcomers will not fit in; and middle management is increasingly a test of creating new computer routines for leaping ahead of the competition. People can't hope for promotion and profit unless they have skill at the lonesome C: prompt.

Apple/Macintosh and their software are not only more expensive; they are clumsy and limited. You can find hundreds of Apple and Mac programs, which are surprisingly limited when you focus on two or three of them and try for a new use. Compatibles have

**Orphans  
387 Main  
Westport  
CT 06880**

**Return  
Postage  
Guaranteed**

hundreds of thousands of programs to choose from. Even when you make your own, compatibles are easier to program well.

And yet, our schools are teaching kids to compute on the Apple, even through high school and often college. Because the lazy computer teachers are more comfortable with its kindergarten poster screen, they keep replacing Apples with Apples. This is unfair to kids.

Our schools must stop replacing Apples with anything but compatibles (at half the price). The old Apples, I keep explaining, can drift down to kindergarten and first grade, where they do a valuable educational job. When even there

they wear out, compatibles have lots of primary-school picture programs.

### Cider Season

You may have noticed that government doesn't heed your complaints. This year, I discover, our Board of Education has budgeted 59 replacement computers for classroom use, every single one an Apple. So as I have done with Tandy, I'm squeezing some apples with the leaders of our schools. They will start buying compatibles or they will get squeezed too, or probably both. I made the first of a series of speeches in town hall last night.

You should be doing the same for your schools.

2

The mini-Whimper is becoming a micro-Whimper, maybe even a Squeaker.

In December's "Rest in Peace" issue, I offered a mini-Whimper you could occasionally order. It would have brought you a little four-page zeroxed Flee Market, Sidewalk Salesmen and Souvenir Shop, updated whenever new information came to headquarters.

But that's silly: I'm not acquiring new Souvenir Shop items, which would take too much time. So I offer instead a micro-Whimper that will cost \$1, a 1-page Flee Market — the "Floating Flee".

Use the back of this issue as your permanent Souvenir Shop and Sidewalk Salesmen. New members (they still come in daily) get a four-page "Shoplism," a duplicate of this month's Souvenir Shop and Sidewalk Salesmen, along with a Floating Flee. If you lose this issue, you can get a Shoplist (not updated) for \$3.

For the Floating Flee, I will type each arriving Flee Market offer into an on-disk micro-Whimper. I will date each ad, and wipe out the item after two

months. Price low: you may NOT advertise the same item again! For setting prices, check back Whimpers, bearing in mind that the higher priced items probably never sold.

I believe the Whimper has kept you guys active, so I think Floating Flee orders will diminish quickly to one a day or less. And that kind of volume will make no dent in my house-building time.

"I am taking this last opportunity to order the goodies you offer," wrote HKF recently. A dozen other members sent orders with letters mentioning time-pressure.

That shows a wariness that is justified in the computer business. But in this case, you guessed wrong. If you order from HQ months or years from now, you are likely to get the goodies. I'll often take a week to get your order to the post office, but that's my style already (it was 2 or 3 weeks at Whimper time). At worst, your check will come back with an apology scribbled on it. Your Fearless Leader won't be writing Whimpers, but I will be sending you those disks and documents.

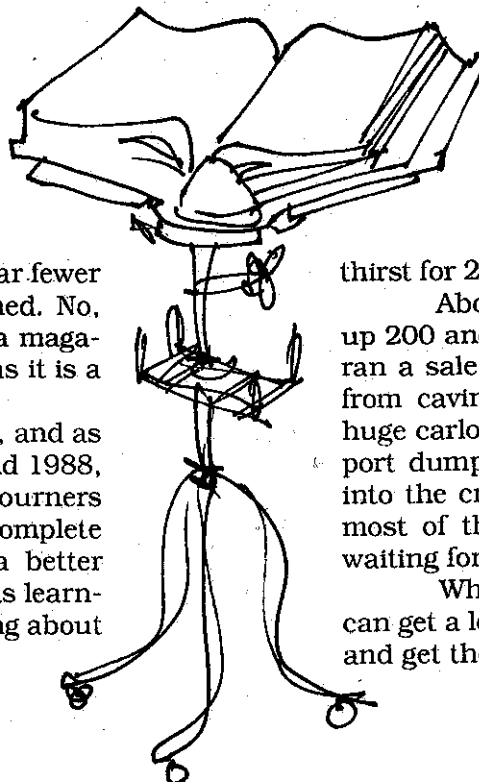
## The Squeaker

## Don't Forget the Other 21 Chapters in This Book

Many of you have been expressing sorrow about the end of the Whimper, but a check of your records shows that in general, you are quite mistaken in your sorrowful idea of "No more Whimpers."

By and large, you guys have far fewer than the 22 issues we have published. No, the Whimper is not really as much a magazine (which digests the latest news) as it is a book! Do you have all the chapters?

There's just as much of value, and as much fun, in the 1987 Whimpers, and 1988, as there is in the 1989 stuff you mourners have in your piles. You need the complete set. In fact, the early issues are a better introduction than the later ones: I was learning then too, and was therefore talking about less advanced features.



We do sell a (zeroxed) book about the 2000 in the Souvenir Shop, *Mastering the Tandy 2000*. But if you like Whimpers, you should have them all, and I can make sure that everyone with a

thirst for 2000 savvy will be able to get them.

About six months ago, having piled up 200 and even 300 extras of every issue, I ran a sale (\$2 each) to keep my study floor from caving in. After a month, I carried a huge carload of back Whimpers to the Westport dump, and watched them crash down into the crusher pit. I kept 75 of each, and most of these full sets are still boxed up, waiting for Orphans to read them.

Why don't you guys realize that you can get a lot more Whimpers than you've got, and get them all on the same delightful day?

Remember what it was like to get a toy for Christmas or a birthday? It was just a dumb toy, soon subject to breakage and boredom. But when it came out of Santa's bag, it seemed like the greatest thing in the world.

The reason you loved it so much was that you waited so long for it. A kid starts waiting for Christmas with the first cool breeze of autumn, and by the end of his wait, any gift would feel wonderful.

An even more delightful surprise awaits you at the end of your many years (I hope) with the 2000. Here's how MC describes it:

"As long as I can keep my 2000 going, I have no need to upgrade. At some point, it will need a repair that's not worth it. Then I will move on, but by then I hope to make a step to something that will be a quantum leap forward from our machine. All we are offered today is an incremental improvement for a lot more money."

I feel the same way, MC. I am passing up that 25mhz VGA 386 mentioned in this

## It's in the Bag

# 3

## Be Aware of the Bear --

There is a lot of movement among members to compatibles, and I don't recommend it. But if you feel you have to go, Orphan WHB has spotted what seems like the best deal on the market. For \$1995 you get a 386 computer with 25mhz speed, color VGA monitor, keyboard, 40 meg SCASI hard drive, and a floppy drive, your choice of size.

Prices of this sort are starting to appear in Computer Shopper also, but this seems to be the best price yet. All the super-low-price places are assembling from parts, and a 386-25 motherboard alone goes for about \$700, the chip itself going for about \$400.

People are finding this out, which is why the complete system prices are dropping toward the sum of the part prices.

The assembler with the \$2000 price is Bear Computer (picture of a bear's head on the logo), 14504 N.E. 20th, Bellevue, WA 98007. 800-776-2327, or 206-641-1474. They don't return phone calls, so don't expect telephone support

and keep a careful eye on them until the computer is unpacked and working.

Tandy sells this \$2000 system for \$6148; Compaq and IBM get \$10,000; national magazine ads have it at \$3000 to \$5000.

If you, like me, intend to pass this one up, you can find a far better deal one or ten years down the road. By then, you may build one. (See box.)

The \$2000 Bear system will really cost you \$4000, plus hundreds of hours (thousands of dollars worth of your time) in further shopping and learning. As soon as you are up to speed on a compatible, you will surrender to advertising and other pressure. You will start buying heavy, up-to-the-minute software and sexy hardware.

And two years after this \$4000 binge, which will train you to waste money, you'll take another computer plunge. It's like sex and cigarettes at sixteen. If you let your environment push you around, you'll stay weak and get weaker. My advice is, stick with your 2000.

issue for \$2000. VGA is 640 by 480, not much better than the 2000's 640x400. What I want is 6400 by 4800 video, a screen that duplicates every pixel my PostScript printer will put on the paper of a two page spread. Color, which I love, will be a plus that I don't use now: CM-1 color is not as clear as the VM-1. By then we'll have publishing, art and drafting software which can fully use this very detailed video.

By the time all this is sold and supported, and has taken its first-year 50% price drops, the CPU will be a \$2000 486 or 586 running at 50 or 100mhz.

In finally leaving my 2000s, I will only buy stuff that's been out for more than a year, getting the best boom for my buck. I'm not interested in the "right now" system that's 10% better and 100% more expensive than last year's. So I'm sticking with the 2000 until "last year's system" does video that makes the 2000 look sick — years from now.

Than I'll be as happy as a kid at Christmas — for a month or two. After that, it will be work as usual.

## -- and a Dare

If you can put together a swing set from Sears, using those not-quite-English instructions from Japanese manufacturers, and picking up the missing screws at the hardware store, then you can assemble a computer. It's' nothing but a box with these things inside: (1) a motherboard, with about six plug-in sockets for extra boards; (2) a power supply, a little metal box at the back of the computer with a plug socket on the outside for your cord to the wall; it has three or four cables hanging out inside the computer, each with four wires twisted loosely together, which bring 5- and 12-volt electricity to your motherboard, your disk drives and your extra boards; (3) several extra boards, which may carry extra memory chips, chips that feed a picture to your monitor, or a hard-and-floppy drive controller; (4) disk drives, hard or floppy, your choice, one or two of either; (5) some flat ribbon cables that connect between your motherboard and the disk drives; (6) a keyboard, shop carefully; and (7) a disk or two with boot-up (like DOS 4 or OS-2) and "setup" programs that will give you some head-scratching before they're right. The combined price of all these items, in PC Week or InfoWorld or (less reliably) Computer Shopper, is \$1500 for a 25mhz 386 machine. If you like a brand name, write your own name on the front.

# Hail and Farewell

Many members wrote notes of thanks, but this one from JGK takes the grand prize:

"What a blow! My first reaction to your quitting the Whimper was along the lines of 'how could he let us down like that?' Now, a day later, I say: Thank you. Thank you a whole lot, not for leaving but for what you've done for us in the past. There are a lot of people out here who feel the pangs of righteous indignation, who rail against the universe. There are many of us who insist that someone do something about it. There are very, very few who do something. There are fewer still who do something when there is little in it for themselves."

"I, for one, salute you. (I'll probably toast you with a glass of wine, actually.) It seems that the same courage that led you to fill the need for the Orphans is taking you from us to fill the needs of your family. I bet it was a tough decision, but I wish you the best. Your energy, insight and drive will

probably cause you to surface again."

After that outrageous flattery, I gave JGN his large order for nothing. He should have been writing the Whimper.

"Build the house," wrote AEK; "take some time for yourself; and thanks much for all your good work. I know of no other publication with such wit, passion and joy. I have looked forward to it each time, and read it always in one sitting. You have reenforced my understanding of Tandy, and given me comfort that I was not alone in my thinking or annoyance. Thanks again for a job well done."

The prolific LJS writes, "I don't see how you whimpered as long as you did. Ramrodding a diverse, changing bunch of good, bad and uglies would tire anyone. Now go build a nice house."

Perhaps a hundred others sent letters that said (a) thanks for what you did, and (b) I knew the end had to come. I'm grateful to all who sent similar sentiments.

# 4

## What's New at HQ

The November cover should have said year IV issue 5; but it said issue 4, giving us two issue 4's in a row. Next blunder, December's issue 6 called itself issue 7. The issue you read this in is **really** issue 7. On the covers since July 1, 1989, you find 1, 2, 3, 4, 4, 7, 7. How's that for dumb?

**POSTMASTER:** Please send address changes to the WHIMPER, 387 Main Street, Westport, CT 06880. The Whimper (ISSN 1040-0052) is published monthly by the Tandy 2000 Orphans, address above, for \$24 yearly (includes other member benefits). Second-class postage has been paid at Westport, CT.

"Without giving yourself away," LHD asks, "how about a brief resume of your background in literature, writing, history, business, computing, etc.? It sounds as if it could be interesting."

I applied only to Harvard, with so many scholarships that I made a profit. I flunked out and got drafted. As a disobedient buck private in wartime Korea, I became so familiar with army discipline that I was made "judge advocate general," chief lawyer with an acting rank of brigadier general. Back at Harvard, the college paper used me in every function, my training for the Whimper. After graduation, I tried cartooning and ballooning with no success. I never have a job because I'm disagreeable and too damn smart.

I was 20 years a bachelor, living in borrowed rooms and fully owned cars. At 38, I said the magic words with a kindly (if foolish) brunette. She still (after twenty years) seems

courageous enough to go the distance with me. Divorce, after all, is something only rich people can afford.

I write about town politics in a now-and-then column called "Little Bigmouth". The logo is a tie to my petite figure, 25% Aztec blood, and habit of calling a spade a big fat ugly black spade with slime all over it. Local officials are thoroughly tired of me, but the First Amendment requires them to sit quietly through my weekly oratory in town hall meetings. Our town hall in an old, pretty school was my idea. The big shots wanted a new building, but I prevailed.

Knowing next to nothing about computers, I feel qualified to like and lead the victims of the Tandy 2000, mostly first-time computer buyers.

In preparation for (allegedly) building our house, I have learned enough about house design to dislike every house ever built, even Mon-

ticello and Falling Water. After building The Perfect House, hope to explain it in a book. Back in my saddle-tramp years I cartooned a skeptical book about dating. It was rejected by eight publishers before going into storage.

I can't change the world much, but I have a good grip on the part nearest to me.

Being shepherd to this great 2000 crowd has been delightful and different for me. I never knew I could do all these things — make Whimpers, organize a huge club, give skill to hundreds, fight a big corporation. Actually, I couldn't do any of those things until the 2000 came along to help me.

You guys (and girls) have been something special that most people never see. How many of us get to build a lifeboat, float it, and lift nearly a thousand people into it? You have my respect and admiration, as much as if I told you every month in a Whimper.

# YFL

## CompDupe Thy Neighbor

Orphans was originally born with another name, the Tandy 2000 Software Swappers. I intended to enable members to dupe 2000 software for each other, which is illegal but unenforceably so with single copies. A few members screeched about the majesty of the law and going to prison, but I ignored them. I did give the idea up: I didn't have the staff that such a project required. Aside from sophisticated programming, it would demand man-years of simple typing in and mailing out of information.

But now, members, it is copy time. I am sending out in this issue a list of all active members, and (space permitting) all past members. Use that list to contact people near you. Be willing to copy both the disks and manuals of other members, and let them copy yours. We've got some powerful software that can keep us comfortably computing for years. If payment

seems morally imperative (it is), bake a cake or give a free sample of your special skills. Money is an icky sort of payment.

Note that I said "2000 software" that "we've got." You could get away with stealing WordPerfect or something that's for sale in stores right now: Don't do it, please. It's not fair to the people and companies who are getting paid through store sales. However, the no-longer-sold 2000 versions are fair game. I particularly include Microsoft Word 1.0 and 3.1 in 2000 versions, and the same for AutoCAD and VersaCAD. I tried to get them to sell their leftovers to you guys; all three companies said yes and then ignored my dozens of follow-up letters and calls. All three companies hate their customers, and deserve to be stolen from, with my blessing.

Naturally, it's easier to buy or sell the originals outright (try 10% of retail), when you find (or are) an inactive member.

5

## Pilgrimage to Pasco

We have been thinking that Envision is dead, but its honcho Dave Nechodom is alive and kicking. Much like Your Fearless Leader, he has kicked the 2000 out of his work day.

I never could understand his refusing to pass on his secrets to four willing members I told him about, or to me. It wasn't a no, exactly, but when a guy says he'll get on it next week, every week for years, I can smell a refusal.

However, Orphan Paul D. Shannon is not a guy who likes to take no for an answer. He's also sweeter to talk to than YFL. Also, and get this, he has bought a ticket to fly from his home in Texas to Pasco in outback Washington state. There he plans to genuflect at the feet of the legendary guru. "I will let you know the results of my trip. I have high hopes that I will be able to get most of his 2000 documentation."

PDS has my heartfelt best wishes for his courageous expedition. I will not have a Whimper to notify you guys, but those who want Envision-type stuff should contact him. Stay away from the phone, please. No life has room in it for hundreds of long calls. Drop him a note about what you're interested in. He's at 11003 Merion Cricket Court, Austin, TX 78747.

## The Late, Great Envision

Envision, if you never found out, was most loved for the 640K RAM boards which Dave Nechodom and founder Don Hammervold turned out. These gave a 2000 a total of 896K of usable RAM. Envision also created an improved hard-drive board and a way of putting the whole 896K on the motherboard (with a math chip also).

They located a 720K 3-1/2-inch drive that plugs nicely into the A: or B: hole in the 2000 and convinced it that it was a regular 2000 floppy (although it refuses compdups and diskcopies with its 5-1/4" neighbor).

The drive Dave modified is apparently no different from any other 3-1/2 720K drive, except that its rear connector is on the right (as seen from front, so our floppy cable could reach it. A longer floppy cable might work any 3-1/2 for us.

Anyway, the 3-1/2 Nechodom worked with was the Panasonic JU-253P, which may have the digits 03, 09 or 11 in the middle somewhere. He says he unsoldered a jumper (bare wire between two points) from loca-

tion R54 (labeled on board) and soldered one in at R63. I think a little switch on the side may have to be tried in another position, also. To attach the drive in our 5-inch drive bay, a Panasonic bracket numbered JU-FDD 8200B did the trick. Orphan HQ has two of them. He bought them from Hamilton Avnet, a Peabody, Massachusetts wholesaler.

Dave's Faze/IV disk modifies the formatting of a hard drive (without reformatting) to change its cluster size and interleave factor. That made a C: drive run faster and seem bigger. A disk going out with the 896K hardware permitted the 2000 to install one or two fake hard drives (called "virtual drives") in memory chips. These RAMdrives naturally run a hundred times faster than regular hard drives, which in turn are ten times the speed of floppies. There were other enhancements also.

Dave Nechodom did excellent work. My only complaint is that he stopped. And considering that this is the last Whimper, I should complain very quietly.

# Hardware Help

6

The asterisk is risky, reports RHN. "You get only one on each side of the decimal." DEL KIM\*.BAS will wipe out everything with a .BAS extension that starts with KIM (including a mere KIM.BAS). But DEL \*KIM\*.BAS reads as DEL \*.BAS in the 2000, destroying all your Basic programs! Even worse, using \*KIM\*. tells the 2000 \*\*, which erases everything. The same is true on the right side of the period: KIM.B\* gets all the files with extensions that start with B. However, KIM.\*B\* takes away all files named KIM, being read as KIM.\*. Thanks for the clarification, RHN.

The 2000 that refuses to boot bothered DJS as well as JEA. DJS reports that when booting up in the morning, the 2000 does not complain when it has trouble reading the alleged booting disk. It just shows you a blank screen. DJS suggests that, with a 2000 that won't boot, you try another DOS disk in drive A, preferably a fresh one; after that fails, do a good cleaning with that white paper rubbing disk with teflon-alcohol fluid dripped on it. If that fails also, get a phillips screwdriver and try installing your B: drive in slot A, and try different settings of the jumper clips at the back of the drives. Only after all this has failed, should you accuse the main logic board of being dead.

## You Won't Believe This

Richard Young Products, 800-828-9949, continues to behave in an unlikely way. They have the fastest service and also the lowest prices I have ever seen for computer supplies. In the past year, every Orphan headquarters consumable has come from them. I know about low prices (with lousy service), and I know about great service (with premium prices). These guys have both, and I just can't believe it's happening to me. I occasionally ask Tony Toriello, the guy I told you disk-orderers to use for special Orphan disk prices, if any Orphans have identified themselves. He can't remember any. So their great service to me can't be motivated by greed. They're just plain great.

Buzz them for a catalog (it's a big one, over a hundred pages), and note that the Orphan prices for our DD96tpi disks are quite a bit lower than what they show in the catalog. See back Whimpers for those prices.

NEVER buy Tandy disks, even on sale. They are not as error-free as the Dysans I get at Young (I've tried thousands of each kind), and Tandy prices (even during sales) (even if you call Tandy franchises) are criminal.

## It Only Comes to You

If you share your machine with others, but have a file you don't want them to read or work on, VEH has this tip for you: Give the file a two-word\*name, like LOVE LTR.DOC. The space is not a legal file-name character, but you type it as ALT/255. You have to hold down the ALT button while you type the digits. All but sophisticated users will fail to load the file. When your turn comes to load it, do the ALT routine again.

\* even better: begin or end the name with a 255!

Norton's DiskTest, as I have hinted, is inclined to get hysterical about hard drives in the 2000. ADP writes that he's having this problem. If you bought a hard drive with a dozen bad sectors in its fault list, but Norton says you have fifty, don't worry! Try Norton again. If he now says you have 75 bad sectors, you're getting baloney instead of data.

Probably Norton dislikes the interference, on our HD board. Just leave DiskTest alone. If you keep getting crashes and error messages from your hard drive, just reformat it (typing in the same bad sectors list it came with). I did, and the results are near-perfect.

I do a lot of directory-making as I move things around the headquarters 2000s, and into floppies for members. I got awfully tired of typing MD NEWSTUFF <enter> CD NEWSTUFF <enter>. So I wrote this little batch file, NUDY.BAT. (NUDY stands for new directory.)

```
MD %1
```

```
CD %1
```

Now I just type NUDY and the name such as NUDY NEWSTUFF <enter>. The kind and obedient 2000 then does my extra typing.

"PLEASE PRINT what goodies from Envision are available to us," yells BES. "Have asked before, no response from you. Sorry, BES and many others — Envision has consistently refused to let Orphans sell any of its hardware or related software. And now that Envision has self-destructed while re

fusing to let anyone take over, there is no hope for Envision stuff unless you find it in the Flee Market. I'm as disgusted as you are by this.

The drive A which won't boot for JEA draws advice from BES, who has been through it. Before you assume a bad chip on the motherboard (which BES had), BES says you should check all electrical connections to drive A — solder points, plug-in connectors, cables, even jumpers (tiny boxes that slip over two brass pins). Check mostly by wiggling them (computer on) and watching for a change. If 2.11.03 bombs while .02 works, it's a bad disk of course. Make sure all three required files are on the disk you use in A: — COMMAND.COM, IO.SYS AND MSDOS.SYS. You need a directory that shows hidden files to check for the latter two.

Do you have floppy drives that stop working after a while? WHB had that, so he whacked on the case and got some restarts. Knowing now that he had a loose connection, he ran his 2000 with the top off and meter probes in hand. When the drives conked out, he found that a +12v line from the power supply had dropped to zero. He turned off and pulled off the roof of the power supply box. Some poking and peering located chip J2, which had cracked solder joints where the pins (all 15!) met the holes in the board. Resoldering (a tiny poke with soldering pencil) solved the problem.

When a floppy makes the 2000 give you that abort-retry-ignore routine, copy its files (\*.\*) to a 2000 (96tpi) floppy. It will keep whining, but hit about ten R's, so it can retry more reads without bothering you. When the info is safely onto its new disk, it will stop giving you grief.

That sticky solenoid armature on top of some (not all) 4853 floppy drives was also traced by WHB. He pulled the circuit board partly off the top and peeked in. He saw that when the arm rises at turn-off time, it hits a rubber cushion so the user won't hear a click. Over time, that rubber oozes some plasticizer and gets sticky. WHB coated the cushion's face with scotch tape, and it no longer sticks.

We have yet another kindergarten photo from the old 1984 orphanage we came from, thanks to DLC. The InfoWorld of January 30 that year has a list of computers that

were using, or were about to use, our dear but snobbish 80186 chip. Included were the Altos Poppy, the Proto 16, the MAD 1 (really!), and the Burroughs B25. Rumors also float of one Scotch and two Jap 186 machines.

Contemplating such use were these companies: Onyx, NorthStar, Monroe, Ivy, and — egad — Tandy. Our latest Whimper rumor: Tandy was (in late 1983) suspected of being about to make an 80186 machine, which would be their first DOS computer. They did! They brought out the 2000.

The instructions for converting a trackball (Atari or Commodore wiring) to the 2000 have arrived at HQ. Our December review (p.8) called the ball a useful, even delightful alternative to our digi-mouse, using the same mouse plug-in socket.

Our thanks to active, bi-lingual (at least) member Willem Vogt, who lives (or works) at 20 Lytse Buorren, 9024 EK Weidum, Netherlands. Those of you who order his trackball instructions and have questions about them can write him a query. The instructions are in the Souvenir Shop.

## We Pan the Scan

Can the 2000 use scanners, asks DWC. More to the point, has any member-guru come up with the code patch we would need? No, DLC, and now that the Whimper is dead, the news won't get out even if someone does.

This is really no problem at all. To publish photos, the photo-half-tone prints you can buy at any graphic-arts shop are far better than those splotchy computer-scanned halftones. And scanned text has 5% errors, meaning it saves you very little time over talking the publisher's out of disks: most text these days is available on disk (as is the Whimper).

Here's good news for you guys who might like to reshape your screen letters: DWC has found that the FONT2K.BAS listing from PCM (a Harrell/Orphan disk) successfully edits every pixel of a font (all the letters, numbers, symbols that go on our screen). "It produces .FNT files that, with the extension RENEd off, work also with SHOWFONT. Do you want it?" DWC is saving us the hard copying work he had to do. Yes, DWC, we want it. Those wanting a disk with DWC's typed-in routine should drop him a note. He's Daniel W. Carter, 8436 W. 500 S., Rus-siaville, IN 46979.



## Decorating DOS

This may appear elsewhere in this issue, but we have received a set of quick color controls for a CM-1 DOS screen. I have renamed it DO-COLOR, to avoid conflict with its heavier namesake SETCOLOR on the Orphan disks. It fit nicely onto the ABE disk, and will go out on it in all future orders for that disk. I can't find the name of the member who supplied it; sorry; but thanks!

DO-COLOR reaches into the memory and changes instructions that IO.SYS gave the 2000 during boot-up. The more exotic SETCOLOR remodels IO.SYS itself.



## They Lit Our Way

Many members have written that leadership means a lot being done for many by a few. They were talking about my putting out the Whimper, but they could have been talking about out technical correspondents.

About a dozen members have lighted the way for the rest of us. One of the foremost of these is the prolific RCP. This month he gives us his final contribution, a tour of the directory of a floppy. Having absorbed his lesson, I have added the directories of all drives.

Norton's Utilities, and others that run on the 2000 (MasterKey, SuperZap), perform just as our DEBUG tour from RCP; see next page.

## The Grail Goes Stale

With the Whimper bowing out in this issue, you might be wondering if that kills off our chances at RDB's alleged chip grail — full IBM compatibility for our 2000.

I'd say yes. Three members wrote this month offering \$50 or \$100 to jump-start RDB's chip fund, and HM included a check with his offer. HM wrapped the check in a blistering-hot letter about RDB's slowness. I'm regretfully sending HM's check back to him. RLS2 and WHB, don't bother sending money.

The elusive RDB called me again this month, with breathless news that he was at the very point of finding someone who would immediately make a single chip from an RDB blueprint that RDB sincerely believes would instantly make a 2000 pretend it was an IBM-compatible, and that its manufacture, for a price you might not want to pay, was just moments away. This is exactly what he has told me every six months for two years. I am convinced that if I put out a dozen more Whimpers in 1990, nagging RDB in every one, he would still produce no Grail chips for sale at any price. When I told the excited RDB that there would be no more Whimpers in which to float his allegations, he sounded crushed.

RDB has performed a mighty achievement with his text grail. The hypertext review in this issue was only possible with the use of his tricky disk. The new task

he's set himself — a hardware grail — is about as easy as climbing Everest alone without oxygen (which an amazing Italian did). All our other gurus have hid in the bushes when I asked about the task. I know RDB has the brains to do it, but I don't think he has the time, money, guts and speed the job requires.

Why cling to the 2000 if compatibility is the main thing we want? It's not the main thing I want. An AT clone at \$600 mail-order would give faster, better and (in the long run) cheaper compatibility than a 2000 with RDB's \$100 chip set. And RDB doesn't have a chip set. He has promises.

By the way, RDB: has it occurred to you that the outfit selling an 80186 "PC" right now (page 7, December Whimper) has a set of Grail chips built right into it, today? They claimed complete compatibility when I called. It seems possible that some money-heavy hacker stumbled across a thousand free 80186 motherboards, and wrote himself a grail chip set like the one you are trying for. They sell it for \$695 with mono graphics and amber monitor. Why not give their tech guy a buzz, RDB? You could be closer to chip grail than you think.

Any of you who disagree with my pessimism, do contact RDB as Robert D. Bonomi, 1637 Orrington #202, Evanston, IL 60201. Or call 312-570-7224 nights, 312-993-4059 days. Good luck to you and him.



You guys can still score a 2000 (or several) for \$50, complete with hard drive setup and CM-1 — if you work on it. Big Ed has circled his wagons around the 6211 2000s he's hiding in the back of stereo Shacks. By "stereo shacks" I mean Shacks that are not computer centers. But now Big Ed has come up with a new twist:

He had a thousand HD machines stacked in the back of a Fort Worth warehouse, our spies have told us. Now he is shipping 300 out to his 300 computer centers. To convince everyone that it makes sense, he has put the "Tandy Blue Book" (how to run a computer store, the boy scout handbook for managers) on disk. Juge dreamed up this ruse when I wrote John Roach an offer to have Orphans buy all his 2000s at \$50 apiece.

XXX reports: "I was invited into the inner sanctum of the local Tandy computer center manager, to view his brand new,

## Tandy Tries to Hide Its Surplus 2000s, and Fails

just installed 2000HD. The hard drive is factory-loaded with the entire store blue book. He says he NEVER uses it but is REQUIRED to have and maintain it." [emphasis by XXX]

XXX adds that he is friendly with said manager, and anticipates cutting a two-digit deal for the "sacred" machine and a separate unclaimed unit that his friendly repair guys have on their shelf. Repair now gets a lot of these, since their repair prices are so high. "No identification, please," says our careful correspondent. "I have a good thing going." You got it, XXX, and a headquarters hurrah for your progress. The rest of you can learn a lot from XXX.

Of course by now, Roach (who gets sick one day a month with his smuggled Whimper) has absorbed this Orphan wisdom: You can't train managers with a blue book on disk, because screens are hard to read, especially the gray-on-gray CM-1. The managers will

quickly go back to black-and-white pages. But the disks have been distributed, and John's cover-up is complete.

Another of those Roach myths floated down the grapevine to VEH: Roach isn't selling store 2000s to Orphans, because it would cause him a tax problem: he couldn't write off enough value on his taxes. But this story is just as fake as the other stories from ex-accountant Roach. The IRS guys have a whole manual about writing off computer values. They check the open market (no doubt they would call Orphans), and they assign the difference between present value and original cost, as the gross write-off.

Within weeks of this last Whimper, all the myths will fall apart. You guys can score your \$50 2000's, as many as you want. You should have three or more machines — to avoid repair bandits for years, and to do true multitasking today without the slowness of Windows.

## To Remodel It Is to Love It

His great insight is that all information about each file on the disk appears in a clump of 32 "bytes" in the directory part (outside track) of the disk. Here's what our latest COMMAND.COM looks like when I debug its directory listing onto the screen:

```
43 4F 4D 4D 41 4E 44 20 - 43 4F 4D 20 00 00 00 00
00 00 00 00 00 00 64 9E - 53 07 6A 00 55 3E 00 00
```

The top line just says COMMAND.COM, followed by a 20 that means a lot.

The 2 in the 20 means the 2000 will "archive" (copy) this file to a floppy during the next run of BACKUP. A zero instead means the file hasn't changed and needs no backup. The zero after the 2 means a normally controlled file. A 1 would protect the file from being changed — it would be a "read-only" file. 2 means the file won't show on a DIRectory, nor can DELete or COPY find it — it's "hidden." If you find a 3, it's both read-only and hidden. Numbers 4,5,6, or 7 mean the same things for a "system" file — but "system" means exactly the same thing as "hidden" in DOS. It's a relic from older computers.

Our hidden files IO.SYS and MSDOS.SYS from the DOS disk are labeled

both hidden and system. No other files are marked system, not even other files which have .SYS extensions.

You can change the file control codes ("attributes") using DEBUG, rather than depending on Norton or other utilities. It's like getting your hands dirty in your car: it makes it seem more like your machine.

That extra 20 (a space) in the middle is because COMMAND is only seven letters where eight are allowed.

The 64 9E in line two is the time the file was finished with its last revision. The 9E means 158 segments of 7-1/2 minutes after midnight — 19:45, 7:45 p.m. (Tandy's programmer worked late). The 64 means 100 two-second chunks after that, 3 minutes 20 seconds. That comes out to 19:48:20. 19:51:08 is the time DX reports in the directory, so the precise conversion is beyond my decoding ability. I've tried dozens of files, and the calculation seems to vary continuously. Weird.

Anyway, 53 07 means the date. The 6A 00 is the starting cluster (on disk) of the file, and the file size is 55 3E 00 00. The 55 means 85 single bytes, while the 3E means 62 groups of 256 bytes. The total is 15,957; it comes out right. (continued next page)

9

# You Can Be Norton

Norton and the other utilities are just imitating Debug, our DOS routine that lays out the contents of a disk in its hex code. In debug, the name COMMAND.COM becomes 43 4F 4D 4D 41 4E 44 20 43 4F 4D. That pair of 4D's is the M's. N, as you might imagine, is 4E. You can see it a little later in COMMAND. The M at the end of COM shows up as another 4D.

The hex code is just a screen message. The C of COMMAND.COM is 43 on your screen, but on the disk it's 01000011, three grains of rust (in a row of eight) which have been magnetized by pulses from the drive's "write" head. A write head is just a tiny iron bar with a wire coiled around it. When the 2000 punches a one-way current through the spiral, the bar becomes a magnet for about a billionth of a second.

Reading the 1's of 01000011 from the right, that letter C is one 1 plus one 2 plus, way over, one 64. Thus C is the 67th character in the ASCII series of 256. Its screen code, hexadecimal 43, means three 1's plus four 16's. That's not so scary when you consider that a regular decimal-code 67 is seven 1's plus six 10's.

## Okay Tadpoles, Jump In

Before we dive into the DOS depths, put a floppy in A: and delete some unimportant file from it. RCP's tour begins when you type DEBUG <enter> from any disk drive that can find the Debug.com. The regular prompt will be replaced by a little Debug prompt. Making sure a disk is in drive A:, type L 100 0 5 10 <enter>. The L "loaded" what you need into location 100 of the 2000's memory.

The zero means drive A:. The dear 2000 hates to waste a digit, so 1 is drive B:, 2 is C: and so on.

What you need is the fifth sector of the floppy (that 5), plus enough additional sectors to get 16 of them into memory. That's the 10 you typed, which is hex code for 16.

To display the first sector (number 5), type D <enter>. You'll see 128 bytes roll down the screen, a fourth of that 512-byte sector. Hit D again for more, up to 40 slugs of 128 characters. After a few hits, you will notice that file you deleted. If it's LETTER.MOM, its title will be eTTER.MOM. The little e stands for erased. You will see:

```
0F0C:0BC0 65 45 54 54 45 52 20 20 - 4D 4F 4D 20 00 00 00 00
```

Note the second four digits of the address next to the 65 (code for e). If they are

OBC0, type E OBC0 "L" <enter>. The command can use lower case, BUT the L must be capitalized and quoted. File names store in upper case only. The E "entered" the L in the 2000's memory, replacing the little e.

Let's make sure nobody will erase or alter your letter to Mom, by changing that last 20 to 21. Type E OBCB 21 <enter>. The 1 sets the file to read-only. We found the OBCB by counting over from OBC0, the location of the 65 (e). The next byte (45 for E) is at location OBC1, and so on. The 4F is OBC9, the last 4D gets OBCA (the next hex number), and the 20 is OBCB.

Take a look at the changes with D CS:OBC0 <enter>. Then write the changed byte on the floppy disk, with W CS:OBC0 <enter>. Leave the scene with Q <enter>.

## A Tour of HQ-1

You can do this on any drive, by a small change in your second command. Instead of L100 0 5 10, you change that zero to call any other drive. You might want to change the 10 to 20, because hard drives can have big root directories. Finally, the 5 changes all over the map.

On the lead machine at headquarters, B: takes a 5 again. Our 10-meg HFORMATed C: responds to a 19. The three other 10-meg partitions (D: E: F:) on our Seagate 251, which were formatted with MLFORMAT, cough up their root directories when that 5 becomes an 11. We also have a couple of imaginary drives in memory, courtesy of Envision. G: and H: are quite simple, so their directories (if any) start at sector 2 (not 5).

Locating the directory can take some exploring. For a strange D: drive, for instance, you might type L 100 3 2 20 <enter>. Then hit D as many as eighty times, to page through the outer tracks of the drive. You'll probably stumble across the root directory quite soon, a bunch of all-caps file names at right on the debug screen.

Once you find it, you can change it. But be sure to do your early tinkering on files you can afford to lose.

# 10

## Keyboard Magic

Have you ever wondered if you could make a little chord like ALT/= or CTRL/D type your name on the 2000 screen? In fact, you can make any key type any character.

We have the Harrell routine MKey among the Orphan shareware disks, but it works by changing the memory after the 2000 is fully operating. This next method goes right in and remodels command.com, the copy that loads up and becomes DOS every morning.

There's no reason I know of to make the D key drop a P on your screen. But if you're in a word processor that doesn't have this trick, you can use unlikely combinations like ALT/9 to drop a word or phrase into your text.

My guess is that the key redefinition you create lands in the "environment," a very tight space in memory which keeps things like your PATH= statement. If the message "out of environment space flashes onto your screen, you might send for the Environment Patch which just this month appears in the Souvenir Shop.

SVC has sent a document which apparently (I haven't tried it yet) allows a 2000 user to change command.com itself so that any key or key-pair can impersonate any key or series of key presses. Aside from your name, you might like to store a sequence of control keys. If you want several ENTERs or a DOS command followed by ENTER, apparently it is now possible.

His file is dated October 1989, making it seem like his own work. But he doesn't tell us whether he wrote it or who did. It's not what I'd call a general-interest process, so instead of putting it in the Souvenir Shop, I'll just laser it out to anyone sending in \$2.00. It's a complex series of debug instructions.

## Be an Environmentalist

Something weird, fellow members: Your Feckless Leader got a delightful way to expand the 2000 "environment," and forgot to tell you about it! I made a dozen zeroes of this two-page document, and wondered why no copies ever sold.

Maybe I mentioned it in a Whimper, but our index is mum on the subject. So for about two years, you have been missing this occasionally important piece of information.

The patch, by ex-member CAN, becomes important as soon as you see the error message, "Out of Environment Space." You can cope with this by shortening your PATH or PROMPT or favorite DX command or whatever, but it is a pain. A better way would be to instruct the 2000 to save more space for these vital instructions.

The patch goes about this task by actually altering your command.com., the one that loads when you turn on the 2000. The exact keystrokes required are listed in the document, which I call ENVIROPATCH. It is listed, finally!, in the Souvenir Shop.

**LATE FLASH:** Just two days after I wrote this, a letter came in from ST with a better way. You can always do what takes a dozen commands in DEBUG with one command in the PATCH that came with our "new" 1987 DOS (2.11.03). PATCH essentially does a debug job for you, opening up a disk and writing new information on it at the specified location.

Note that if you try this DOS.03 patch on DOS.02's command.com (an unlikely situation), it is not likely to work.

The "environment" that command.com sets up for you every morning, CAN and ST inform us, has space for 160 letters (or digits or spaces). This is enough for most users. But if you need more (that "Out of" message), this routine permits you to have all you want.

Those 160 bytes are laid out in ten rows of 16 if you peek into the memory of the 2000. Those ten rows are called 0A in command.com: the hex code 0A means 0 times 16 plus A times 1. A is the next hex digit after 9, so it means 10.

Instead of 160 bytes, CAN likes 1024, 64 rows (hex code 40). ST likes 800 bytes, 50 rows (hex code 32). I'll show you the patch command that ST uses:

```
PATCH COMMAND.COM, CF2, BB 0A 00  
B4 48 CD 21, BB 32 00 B4 48 CD 21 <enter>.
```

You notice that the 0A changes to 32 and all else stays the same. ALWAYS be careful with patch, which is a very potent ham-

mer; and ALWAYS make software changes to a copy, not to the original. Many thanks, ST.

In my opinion, even ST has not made the job as easy as it should be. I believe that this command does the job:

```
PATCH COMMAND.COM,CF3,0A,32  
<enter>. Instead of typing seven bytes twice with one byte changing, you just type the change. There is no need for any spaces except the one after PATCH, so setting CAPS lock isn't necessary. DOS doesn't know the difference between caps and lower case.
```

DOS, you new guys, is the brains of the 2000 that begin thinking every time you type a command at the A: prompt (or any other drive letter). These brains roll into the 2000's black memory chips whenever you turn on the 2000, in the form of three files which the computer reads from your A: drive or C: (if you have a C: hard drive). Those files are command.com, io.sys and msdos.sys. The last two are "hidden," so you don't see them in a DIR listing. But if you order a CHKDSK <enter>, those hidden files it tells you about are IO and MSDOS. The IO controls Input and Output of information to and from video monitor, drives, printer and so on. MSDOS stands for MicroSoft Disk Operating System.

If you're really sharp, you wonder how the dumb 2000 knows enough to search its disk drives for those files, load them into

11

memory, and read their instructions. That first burst of knowledge comes from a couple of chips on the main logic board, the huge green basement floor of the 2000. They are the ROM chips, Read-Only Memory. The "read-only" means that no action of the 2000 can rewrite them or forget them. Like the kitchen sink and toilet, ROM stays there even when the house is empty.

The simple PATCH command above rips out the 0A which is stored in box 0CF3 (so 0A is the 3315th byte) of the file COMMAND.COM. It sticks the 32 in where it was, and after you use this new version of command.com to boot (start) the computer, you've got a bigger environment.

Anyone with an older DOS, or wanting more detailed information on the environment or using debug, or having trouble, might order the environment patch sheet.

Rich.C. Meczywor Box 98, N. Blandford Rd. Blandford MA 01008 413 848 2803  
 Herbert Meyers 264 N. Main St. E.Longmeadow MA 01028 413 567 6096  
 Francis J. Schell 46 Conant St. Acton MA 01720 508 263 5005  
 Frank J. Meiners 162 Indian Pipe Lane Concord MA 01742 508 369 1694  
 John E. Cavanaugh 6 Albion Rd. Billerica MA 01821 619 669 4479  
 James W. Donovan 5 Park St. Boston MA 02108 234 5087 617  
 Douglas Showalter 1st Cgr.Church,68 Main St Falmouth MA 02540 617 548 9469  
 William A. Walsh, Jr. 250 North Bay St. Manchester NH 03104 603 623 6619  
 John H. Van Ness 2 Jaquith Rd. Jaffrey NH 03452 603 532 6834  
 L. Henderson Dudman P.O. Box 257 Auburn ME 04212 207 782 5881  
 Kenneth L. Knox RFD Box 88 Pembroke ME 04666 707 726 5524  
 John W. Price RFD 3, Box 194A Athens VT 05143 802 869 2041  
 Robert E. Fairbrother R.F.D.3,Box 102,Bluff Rd. Newport VT 05855802 334 7286  
 Stanley B. Puffer 118 Ellsworth St. Bridgeport CT 06605 203 335 9658  
 Your Fearless Leader 387 Main St. Westport CT 06880 000 000 0000  
 Jon J. Whitman 257 Ridge Rd., RFD #3 Westmiford NJ 07480 201 728 7052  
 Thomas Fox 95 E. Quackenbush Ave. Dumont NJ 07628 201 384 0365  
 Mr. Leslie A. Morris 166 Emmans Rd. Flanders NJ 07836 201 584 1084  
 David A. Smith 72 Delmore Ave. BerkeleyHeights NJ 07922 201 464 2097  
 Robert J. Fenner 35 Library Place Edison NJ 08820 212 683 3089  
 Robert S. Tatton 206 Potterstown Rd. Lebanon NJ 08833 201 534 2477  
 Paul C. Johnson 104 North Middaugh Street Somerville NJ 08876 201 218 0213  
 Michael L. Pahl Box 48, 2nd Gen Hosp APO NY 09180 000 000 0000  
 Dr.F.J. Dockstader 165 W. 66th St.,17-J New York NY 10023 212 877-5118  
 Jacob E. Goodman 310 W. 72 St. New York NY 10023 212 787 8309  
 Mitch Carucci 33 Lighthouse Rd. Great Neck NY 11024 516 482 8256  
 L. Dean Dorsey 252-84 Brattle Ave. Little Neck NY 11362 516 391 3922  
 Peter Joseph Vogt 3 Briarwood Drive Glen Cove NY 11542 516 671 5370  
 Walter F. Flynn 4 Van Buren Ave. East Greenbush NY 12061 518 477 6301  
 Joseph H. Broyles Box 509 Woodstock NY 12498 914 657 2394  
 Richard Harris 333 Libertyville Rd. New Paltz NY 12561 914 255 0466  
 Kermit Klingbail Box 300, Osceola Rd. West Leyden NY 13489 ??? 724 6390  
 Stephen H. Sellinger R.D. 1, Box 106 Bainbridge NY 13733 607 639 1990  
 William H. Gratz Jr. 3674 Parkdale Drive Youngstown NY 14174 716 745 3333  
 John G. Knowles 570 Thomas Ave. Rochester NY 14617 716 544 3506  
 John J. Wilson 116 Latimore Rd. Rochester NY 14620 716 385 2595  
 Robert H. Alessi 208 Fenton Bldg. Jamestown NY 14701 716 664 4315  
 Brian G. Frederick 2237 North Tripphammer Rd. Ithaca NY 14850 607 257 6882  
 Morry Endres 3435 Melwood Ave. Pittsburgh PA 15219 412 681 3739  
 Linda S. Tshudy R.D. 1, Box 1860 Jonestown PA 17038 717 865 5191  
 Charles T. Howard R.D. 1, Box 156 Newmanstown PA 17073 717 949 2012  
 Ron Beecher E-M22 300 WillowVall.Lks.Dr. Will.Street PA 17584 717 464 9630  
 Jim H. Haines R.D. 4, Box 482A Coopersburg PA 18036 215 346 7734  
 Saverio R. Salvati 43 Milestone Drive Hawley PA 18428 717 226 3924  
 Gary G. Scott 82 Smoketown Rd. Quakertown PA 18951 215 536 5394  
 Murray A. Bolno 1107 Bethlehem Pike.#102 Flourtown PA 19031 215 233 3955  
 R.G. Alexander Monsey Prs,Cold Stream Rd Kimberton PA 19442 215 646 6878  
 H.Karl Frensdorff 2304 Riddle Ave., Apt.403 Wilmington DE 19806302 654 8232  
 Jeffrey T. Hellige 8803 Hawthome Lane, #102 Laurel MD 20708 202 295 5515  
 James L. Daigle III 12103 Linden Lane Bowie MD 20715 301 262 8758  
 Robert A. Schmuhl P.O. Box 160 Harwood MD 20776 301 867 0993  
 Bernard L. Poppert 9405 Bac Place Garthersburg MD 20877 301 258 5183  
 Frank A. Fratalli 3714 Meadowvale Rd. Ellicott City MD 21043 301 465 1775  
 John H. Giese 2123 Sherwood Lane Havre de Grace MD 21078 301 272 0684  
 John R. Hemminger Rt. 1, Box 85-14 Millington MD 21651 301 928 5215  
 Paul B. Stimson RFD 1, Box 112 Royal Oak MD 21662 301 745 3858  
 Don H. Hesselhoff 6004 Schoolhouse Woods Rd Burke VA 22015 703 764 3988  
 W. Dwight Love 12827 Longleaf Lane Hemdon VA 22070 703 435 0238  
 Robert J. Hobbs 13156 Ruby Lace Ct. Hemdon VA 22071 703 435 6028  
 Jim P. Aitken P.O. Box 4718 Woodbridge VA 22194 703 490 4694  
 Gordon R. Goddard 103 Fawn Hills Drive Fredericksburg VA 22401 703 786 3827  
 Marc S. Allen P.O. Box 520 North VA 23128 804 725 9648  
 Robert E. Hunter P.O. Box 158 Montpelier VA 23192 804 883 6698  
 Jerry E. Heath 3841 Croonenbergh Way Virginia Beach VA 23452 804 498 8176  
 Arthur J. Gustafson 127 Linbrook Drive Newport News VA 23602 804 877 0313  
 James P. Brown 137 Pamela Drive Hampton VA 23666 804 826 8985  
 James M. De Young, Jr. Route 9, Box 829 Mooresville NC 28115 704 664 3272  
 Harvey F. Sarsfield 204 Fox Drive Dudley NC 28333 919 734 7509  
 Marshall M. Cook P.O.Box 1478 Pinchurst NC 28374 000 000 0000  
 Rev. Paul F. Abel Bx1676;136 Timberlane Dr. Etowah NC 28729 800 334 9612  
 Robert C. Spencer, Jr. P.O. Box 2666 Sumter SC 29151 803 277 0214  
 Kenneth James Wilke 33-B Pointer Lane Greenville SC 29607 803 632 3280  
 William T. Brown P.O. Box 887 Fairfax SC 29827 904 423 0768  
 A. Tyrrel Dear 6802 S. Atlantic Ave. New Smyrna Bch. FL 32069 904 721 2430  
 Samuel W. Ford 7612 Arble Drive, Apt. C Jacksonville FL 32211 904 265 9158  
 Chas J. Giersberg Jr. 4411 Baywood Drive Lynn Haven FL 32444 904 862 6867  
 Robt L. Powell, Jr. 108 Woodbine Circle Ft. Walton Beach FL 32548 904 565 904  
 Harold W. Kemp 815 S.W. 10th St. Gainesville FL 32601 904 629 1753  
 Henry J. Noll 3115 N.W.44th Court Ocala FL 32675 305 857 5081  
 Jeff Logan 4101 Playa Court Orlando FL 32812 305 678 5906  
 Kleber C. Maddox 8342 Rolling Log Dr. Orlando FL 32817 407 723 2940  
 Lester Thayer Jr. 801 S. Miramar Ave. Indianantic FL 32903 407 562 5371  
 Richard P. Bogosian 2101 14th Avenue Vero Beach FL 32960 305 887 0912  
 David A. Larkins 8181 NW S.River Dr.,#244 Medley FL 33166 305 742 0143  
 William C. Shaw 8341 N.W.47th Street Luderhill FL 33351 508 655 9393  
 Anna Weinstein 7240 Hunt-ton La 24/604 Delray Beach FL 33446 904 588 3641  
 Paul Romth P.O.Drawer G Saint Leo FL 33574 813 576 2446  
 William R. Rutter 1400 89th Ave. N. St. Petersburg FL 33702 813 895 3425  
 Eldon L. Clark 758 28th Ave. N. St.Petersburg FL 33704 813 655 4080  
 Jay S. Zeltzer P.O.Box 403 Sebring FL 33871

John R. Gargis 459 N.W. Sunrise Terrace Port Charlotte FL 33952 813 625 3329  
 Ann O. Gilliam P.O.Box 478(Hwy.17 North) Carrollton AL 35447 205 367 8266  
 William A. Keene 124 Harrogate Springs Rd. Wetumpka AL 36092 205 567 7555  
 Robert L. Davey 2223 Lakeland Drive Johnson City TN 37601 615 926 2764  
 Ted J. Macon 2144 Lake Shore Drive #7A Ridgeland MS 39157 601 856 4369  
 Ted S. Orkin 1006 Northpointe Drive Jackson MS 39211 601 956 8526  
 VaughnE.Hathaway POBx84(926 Hudson L)WaynesboroMS 39367 601 735 2616  
 Jerry F. Sipple 2618 James Ave. Covington KY 41014 606 261 6123  
 Elizabeth Clark Rt.1, Eagle Hill Rd. Glencoe KY 41046 606 643 2311  
 Robert S. Maroldy 16841 Cromley Rd. Ashville OH 43103 614 983 3286  
 Robert N. Bovara 12043 Hamon Rd. Pickerington OH 43147 614 863 7956  
 Shawn P. Martin 106 Midland Ave. Cardington OH 43315 419 864 5821  
 Raymond T. Furlong 5800 Royal Drive Willoughby OH 44094 216 944 5800  
 Robert J. Sommerfelt 3961 East 55th St. Cleveland OH 44105 216 341 6297  
 Robert E. Vannice 32145 Old South Miles Rd. Solon OH 44139 216 321 7509  
 John H. Walchak 1547 Niles-Cortland Rd NE Warren OH 44484 216 856 2204  
 Gerald G. Stroud P.O. Box 606 Orrville OH 44667 216 683 0618  
 Ed Mastalski 416 Cloverwood Dr. Mason OH 45040 513 598 6651  
 LeRoy Brothers 531 Laramie Trail Cincinnati OH 45215 513 683 5450  
 Robert A. Wallace 1639 Clemson Circle Cincinnati OH 45255 513 474 4900  
 Paul A.Ludwinski 6325 RollingGlenDrive Huber Heights OH 45424 415 969 6948  
 Nelson D. Coleman 144 Emerald Lane Chillicothe OH 45601 614 775 1387  
 J. Moritz Grolimund 212 W. Jefferson Elkhart IN 46516 219 295 5701

John W. Seidel Box4006 Appleton WI 54915  
 Russell D. McNitt 19036 Rendova St. N.E. Wyoming MN 55092 414 731 4721  
 David J. Siegler 15013 Eileen Circle Burnsville MN 55337 ??? 434 7836  
 Warren D. Rutledge 1409 South 7th St. Hopkins MN 55343 612 435 7857  
 Alois C. Bares 11221 Quinn St. N.W. Coon Rapids MN 55433 612 935 5550  
 Paul Swanson 4005 E. Superior St. Duluth MN 55804 612 755 3457  
 Steve Snipstead 98 Northern Lights Blvd. Kalspell MT 59901 218 525 1887  
 Steve S. Todd c/o Mercer 1417 Lake Coad Deerfield IL 60015 406 752 2481  
 Dale D. Parsons 17540 W. Winnebago Drive Wildwoodille IL 60030312 680 7177 312 851 4344  
 Keith A. Edison 0 North 371 CountyFarm Rd Winfield IL 60190 312 884 9207  
 W. James Frank 340 Payson St. Hoffman Estates IL 60194 312 844 9131  
 Richard N. Hinton 18456 S. Poplar Homewood IL 60430 312 799 6647  
 L. Richard Powell 58 Eagle Lake Road Monee IL 60449 312 258 3613  
 David M. Scudamore P.O.Box 1351 Aurora IL 60507 312 851 4344  
 John W. Omerod 47 Eastfield Rd. Montgomery IL 60538 312 844 9131  
 Dr. Robert W. Shoemaker 222 S. Julian St. Naperville IL 60540 708 355 7180  
 Glen S. Lawrence 228 Pembroke Rd. Naperville IL 60540 708 357 0623  
 Barrie M. Yacher 623 W. Addison Chicago IL 60613 312 528 6831  
 James M. Kline 5659 South Normal Chicago IL 60621 312 224 6729  
 Ken J. Swiderski 11813 S. Harding Ave. Garden Homes IL 60655 312 371 1253  
 Keith Murray 612 13th Ave. Sterling IL 61081 815 625 4041  
 Katharine I. Hoyenga 1137 Stacey Lane Macomb IL 61455 309 837 3062  
 Bill Carlson Box 5 Woodhull IL 61490 309 334 2484

Bob Norman P.O. Box 9604 Ft. Worth TX 76147 817 732 1194  
 Lawrence C. Marin 4604 Redondo St. Ft.Worth TX 76180 817 485 9764  
 William R. Eaton 400 Woodland Denton TX 76201 817 382 7800  
 Richard J. Naiser 14712A Perthshire Rd. Houston TX 77079 713 497 6188  
 Robert L. Mardock, M.D. 214 Bay Colony Circle LaPorte TX 77571 713 470 2753  
 Melvin J. Medack 803 Forest Oaks Lane Pearlton TX 77584 713 481 0507  
 Stanley G. Gilpatrick P.O.Box 3351 Victoria TX 77903 512 575 4879  
 Wayne K. Yandell 2202 Post Oak Portland TX 78374 512 643 5117  
 Chris Commons 4410 Haverhill Lane Corpus Christi TX 78411 512 852 0409  
 Milton H. Culley 209 Quail Run Rd. Buda TX 78610 512 295 2101  
 Clar. Skrovan P.O.Box 570(100 W.3d St.) Georgetown TX 78626 512 869 4390  
 Gary C. Walter 209 East Milton Austin TX 78704 512 443 6826  
 Col. Donald W. Misher 3710 Greystone Drive Austin TX 78731 512 345 0098  
 Charles J. Crowell 2708 Norfolk Drive Austin TX 78745 512 444 4847  
 Paul D. Shannon 11003 Merion Cricket Ct. Austin TX 78747 512 282 2396  
 Arthur N. McAninch 122 Pecan Burger TX 79007 806 273 6378  
 Elmer Schoenhals Rt. 3, Box 111 Perryton TX 79070 806 435 5345  
 Rick D. Webb 4608 River Rd. Amarillo TX 79108 806 352 8349  
 John L. Marshall 4120 Rio Bravo, Suite 106 El Paso TX 79902 915 581 3556  
 Louis J. Schuetz 10204 W. 58th Place Arvada CO 80004 303 424 8107  
 Joe P. Hafele P.O. Box 332 Firestone CO 80520 ??? 833 3865  
 Chris J. Reimer P.O. Box 836 Cascade CO 80809 719 684 2321  
 Robert R. Johns P.O. Box 132 Florence CO 81226 719 275 9202  
 John D. Erdmann 3427 Dover Rd. Cheyenne WY 82001 307 632 8810  
 Robert L. Sisco 4100 N. 13 E. Mountain Home ID 83647 208 587 7120  
 B.Jack Standing 1208 W.575 South Woods Cross UT 84087 801 295 4093  
 Geo.F. Gaut Jr. 4640 S. 28500?N.#231 WestValleyCity UT 84119 801 254 625  
 Joe Cline 478 East 2nd South Moab UT 84532 801 259 6270  
 Robert F. Schuetz 3327 E. Larkspur Drive Phoenix AZ 85032 602 992 8269  
 Robert Moritz 4124 North 66th Place Scottsdale AZ 85251 602 224 5991  
 Thomas F. Luckow 4001 E. Pima St., Suite B Tucson AZ 85712 602 326 2266  
 Paul C. Sedor 4271 North Ventana Loop Tucson AZ 85715 602 886 4079  
 George Hecox 3907 Oakmont Drive Rio Rancho NM 87124 505 892 6036  
 David R. Deiteman 6208 Alta Drive Las Vegas NV 89107 702 877 1185  
 John E. Ardans 5628 Cartwright Ave. Las Vegas NV 89110 702 459 1552  
 Jerry Collier Lane P.O. Box 15335 Las Vegas NV 89114 702 457 8757  
 Alfred Anderman P.O. Box 90121 Los Angeles CA 90009 213 393 7928  
 John E. Heiser 6446 Firebrand Los Angeles CA 90045 213 641 2747  
 Orasio Robles 2322 E.108th St. Los Angeles CA 90059 213 566 7125  
 Barry Mason 1466 Queens Rd. Los Angeles CA 90069 213 656 9538  
 Bruce A.Davy 865 Manh'nBch Bv#202 Manhattan Beach CA 90266 213 545 7730  
 Lawrence O. Duckwald, Sr. P.O. Box 11188 Torrance CA 90510 213 830 2119  
 Paul E. Langenwaller II P.O. Box 1674 La Mirada CA 90637 213 943 4813  
 Philip K. Goodman Sr. 9448 Aero Drive Pico Rivera CA 90660 213 949 2239  
 Cesar F. Ruiz 1302 W. 25th St. San Pedro CA 90732 213 547 9146  
 Phil Des Marteau 317 W. Siesta Ave. Thousand Oaks CA 91360 805 495 4618  
 James East 5367 Third St. Irwindale CA 91706 818 444 1752  
 Ken Ashley, D.D.S. 760 S.Washburn, Suite 3 Corona CA 91720 714 735 4326  
 Mark E. Bender 2188 Burning Tree Drive Corona CA 91720 714 736 1407  
 Alton I. Vance 2871 Huerta Way Norco CA 91760 714 734 4825  
 Robert H. Yasuhara 5314 Santa Anita Ave. Temple City CA 91780 818 350 5114  
 John W. Hoffman 43667 Walden Way Hemet CA 92344 619 363 6306  
 Lowell E. Robertson 5211 Sierra Vista Riverside CA 92505 714 688 8904  
 Marce J. Ahrenberg 5772 Tower Rd. Riverside CA 92506 714 682 6290  
 Robert M. Sutherland 13771 Olympic Ave. Costa Mesa CA 92626 714 540 4303  
 Harold J. Barton 3803 E. Casselle Ave. Orange CA 92669 714 720 4978  
 John W. Neville 20352 Puesta del Sol Yorba Linda CA 92686 714 970 7268  
 Steven D. Covey 365 Encino Drive Oak View CA 93022 805 649 1292  
 Brian O. Kennedy 6210 Parkhurst Drive Goleta CA 93117 805 687 8937  
 Sandy Saunders 2021 Marine Lane Oildale CA 93308 805 399 7173  
 Doyle L. Brook 1318 Oceanaire Drive San Luis Obispo CA 93405 805 543 9450  
 Rick Jimenez Jr. 3041 E. Ave. S4 Palmdale CA 93550 805 272 3709  
 Ken Short 443 Stevenson St. San Francisco CA 94103 415 957 9915  
 Kenneth W. Fletcher 1865 24th Avenue San Francisco CA 94122 415 731 6567  
 Delbert L. Johnson 1901 Melvin Rd. Oakland CA 94602 415 482 5596  
 Ted G. Lambert LMT Inc., 515 Aldo Ave. Santa Clara CA 95054 408 448 2741  
 George S. P. Orsten 4530 Calle de Farrar San Jose CA 95118 415 586 1840  
 Michael P. Much 1428 Pinehurst Drive San Jose CA 95118 209 276 0690  
 Robert D. Plamondon 4271 North 1st St., #106 San Jose CA 95134 408 262 6909  
 Thomas A. Beck P.O.Box 26 Mi-Wuk Village CA 95346 209 586 1794  
 Arnold E. Klauer 15600 Norton Rd. Healdsburg CA 95448 707 433 5955  
 Larry Fortna P.O. Box 82 Eureka CA 95502 707 442 6072  
 Sherwin H. Wiersig 375 South 15th St. Fortuna CA 95540 707 725 2352  
 John K. Neiswanger 9 Hollis Lane Gridley CA 95948 916 846 5311  
 Donald W. Kuehl 515 S.E. 65th Ave. Portland OR 97215 503 232 0265  
 Thomas G. Ducusin 17512 N.W. Santiam Drive Portland OR 97229 503 629 0702  
 Robert K. Alzman 12056 S.E. Mt.Scott Blvd. Portland OR 97266 503 761 2056  
 Norman C. Cannon 833 Johnson Ave. Cottage Grove OR 97424 503 942 1066  
 John P. Cenul Jr. 2551 Caves Hwy. Cave Junction OR 97523 503 592 2946  
 Lee Bishop 16434 Burgess Rd. La Pine OR 97739 503 536 1703  
 James W. Otterson 4417 South 300th Place Auburn WA 98001 206 946 4853  
 Michael C. McGary 9700 N.E. 141 Court Bothell WA 98011 206 821 4855  
 John A. Wilkinson 11221 S.E. 235th Place Kent WA 98031 206 859 5387  
 J. Stephen B. Smith 1839 S.E. 18th Place Renton WA 98055 206 271 5924  
 Steven C. Strehle 820 John St.,c/o McLaren Seattle WA 98109 206 622 4078  
 Warren H. Bell 9405 45th Ave. N.E. Seattle WA 98115 206 524 1050  
 Loral D. Verhoeven 10919 53rd Ave. W. Everett WA 98204 504 261 5139  
 George C. Turner 1424 S.Lakeway Drive Moses Lake WA 98837 509 765 4044  
 Don L. Kindig 2215 Road 34 Pasco WA 99301 509 547 0005  
 Loren C. Schmid 2132 Hamilton Ave. Richland WA 99352 509 946 4350

12

# Active Members

13

Here is your list of active Orphans, in zipcode order. Note that a state near you may have a much different zip. Please bear with the column-forced abbreviations.

The phone number is the home phone, except where members gave only a business phone. Any information labeled with 000 or ??? is unavailable, either missing or withheld by request.

A separate foreign page goes out to foreign members with this issue. It includes members in Canada (quite a few), Bermuda, Alaska (sorry), England, Australia, New Zealand, Singapore, Belgium, and Netherlands.

This information applies also to the inactive (pp. 19-20).

If you want to send an Orphan-wide mailing, don't bother with the inactive: they won't answer. And don't do the awful work of typing out this list. You can order an Orphan list disk for \$10.

It will contain ASCII files of this list and the inactive list, and an ASCII mailing list of the active members, which you can print out on 6-line (3 lines used) 1-inch-high labels. It will also contain the complete Orphans.DBF file so you can bring the information up in dBaseIII or one of its clones (I use dBaseXL).

Good luck with your contacts with other Orphans. Treat them kindly: they are remarkably diverse people.

Robert L. Rush 1729 W. Walnut St. Kokomo IN 46901 317 452 0560  
 Philip G. Campbell 403 Miami St. N. Manchester IN 46962 219 982 6975  
 Daniel W. Carter 8436 W. 500 S. Russiaville IN 46979 317 883 5696  
 James R. Hasty 3041 South State Road #3 Hartford City IN 47348 317 348 0645  
 Eric J. Lawrence 130 N. 34th St., 12C Richmond IN 47374 317 962 6522  
 Kenneth E. Montgomery Route 2, Box 43 Shoals IN 47581 812 247 3714  
 John I. Gumaer 926 Rockaway Court Bloomfield Hill MI 48013 313 956 6762  
 Wayne H. Thorn 8257 Caribou Trail Clarkston MI 48016 313 625 6985  
 Barry Leebove, C.P.A. 29838 Clubhouse FarmingtonHills MI 48018 313 474 7406  
 Larry Steenberg 32050 Grand Riv. Av. #54 Farmington MI 48024 313 473 7138  
 Fred B. Short 6427 Harris Rd. Jeddo MI 48032 313 237 2280  
 Ken L. Montgomery 1900 River Rd., Apt. D-1 Marysville MI 48040 313 982 0006  
 Steven V. Closs 3569 Milton Rd. Port Huron MI 48060 313 987 7432  
 Ralph A. Smith 11181 Alice Court Sterling Hghts. MI 48078 313 739 7352  
 Jack A. Doerr 22407 Bayview St. Clair Shores MI 48081 313 777 1313  
 Ronald P. Naeyaert 14651 Russell Allen Park MI 48101 313 388 4986  
 J. Daniel LaCourse 25110 Franklin South Lyon MI 48178 313 437 9007  
 Harold O. Lipsitz 5825 Dunmore Drive West Bloomfield MI 48322 313 855 2088  
 James M. Boyer 3697 Green Corners Rd. Metamora MI 48455 313 797 4661  
 John K. Herreshoff 508 W. Burnside St. Caro MI 48723 517 673 4554  
 E. Dale Knepfer 10001 Wright Road Eagle MI 48822 517 626 6917  
 Gerald G. Nevitt 4212 Alpha St. Lansing MI 48910 517 393 7020  
 Tim Dobos 3732 W. Michigan Ave. Battle Creek MI 49017 616 663 7196  
 David Ver Hoef 42 South River Ave. Holland MI 49423 616 392 1888  
 Richard A. Ledzian Star Rt. 1, Box 266E Iron Mountain MI 49801 906 779 1898  
 William H. Klemme R.R. 3, Box 16 Aiden IA 50006 515 859 7780  
 Vitus F. Gerken 1438 57th Place Des Moines IA 50311 515 274 0637  
 Joel W. Gabrielson 1107 Windsor Place Belmont IA 50421 515 444 3871  
 Paul G. Hall R.R. 1 Fort Dodge IA 50501 515 955 3300  
 James C. French 2622 South St. Mary's Sioux City IA 51106 712 276 1675  
 Ja.E. Persik N57 W1362 Reichert Ave. MenomoneeFalls WI 53051 414 781 3190  
 Ernie Shuldhiess 2401B Springdale Rd. -B2 Waukesha WI 53186 414 784 1083  
 David J. Melitz 3209 N.Maryland Av.Rm.B22 Milwaukee WI 53211 414 229 6339  
 Larry M. Schlei 3629 South 71st Milwaukee WI 53220 414 645 8648  
 Arlington R. Cole 2237 Moccasin Trail Beloit WI 53511 608 362 1253  
 Doug C. McDonell 2830 Waubesa Ave. Madison WI 53711 608 222 1580  
 Eleanor M. Davis 752 Grove St. Oshkosh WI 54901 414 233 3493

Frank E. Perks 2108 E. Harvard Ave. Peoria IL 61614 309 688 5398  
 George R. Cermak 1300 E. College Ave. Normal IL 61761 309 452 1689  
 Glenn D. Roberson 1309 Sir Galahad Lane Godfrey IL 62035 000 000 0000  
 Anhur C. Lind 15450 Country Mill Court Chesterfield MO 63017 314 532 3345  
 Cyrus D. Tuttle 1803 Mannington Chesterfield MO 63017 314 394 1602  
 Heather Franks 1107 W. Congress St. Pacific MO 63069 314 257 4236  
 Eugene T. Breer 1586 Rustic Trail St. Louis MO 63138 314 741 3478  
 Mark A. Hallows R.#1, Box 241 Curryville MO 63339 314 221 9013  
 Howard D. Taylor R.R.1 La Grange MO 63448 314 655 4681  
 Roy E. Browne 40 Oak Hill Cluster Independence MO 64057 816 228 3634  
 Lew A. Maneval 412 W. Penn Jasper MO 64755 417 394 2825  
 Gerard P. Groenewold R.R. 4, Box 38 Rolla MO 65401 313 537 4105  
 Donald Joseph Hamilton Rt. 5, Box 1056, Road 00 Ava MO 65608 000 000 0000  
 Stephen A. Abraham 2653 Lori Lane Wichita KS 67210 316 685 7261  
 Ray C. Perrussel P.O. Box 422 Salina KS 67402 913 823 3944  
 Marilynne K. Bergman Rt. 1 Box 50 Ithaca NE 68033 402 623 4354  
 Barry Marts R.R. 1, Box 110 Weston NE 68070 402 642 5882  
 Robert L. Sleyster 2917 Westgate Rd. Omaha NE 68124 402 393 6716  
 Bill Lyons PO Bx 1848 Metairie LA 70004 504 835 5081  
 Henry K. Lee Box 2148 Morgan City LA 70380 504 385 2648  
 Ray C. Fabec 10449 Barry Drive Baton Rouge LA 70809 504 293 5837  
 Michael R. Wheeler 11893 Plank Rd. Baton Rouge LA 70811 504 778 0360  
 Paul E. Roberts 222 McGehee Drive Baton Rouge LA 70815 504 273 3128  
 Aaron D. Paul P.O. Box 581 Alexandria LA 71309 318 445 2161  
 Jim Colwell Rt. 1,



# Software Support 14

"I'm delighted that you came up with TED," says RLS2. "That's one great program for DOS text file work. I'd never used anything but EDLIN before; that's all I'd seen. I didn't know what I was missing. But now I'm ready to DELETE that piece of trash from every DOS disk I own!"

"I found a new compatible program," says LDD, "T/Maker Integrated." He recently bought it from Tandy, with versions for both his Model 4 and his 2000. But he says T/Maker (address not given) is selling it ultra-cheap direct, while it lasts. It's an integrated program, meaning it has word processing, spreadsheet, database, and possibly other bits like communications. It is simpler, if less powerful, than our other do-all's, FrameWork and Symphony. My guess is that it would be stronger than DeskMate. Surely T/Maker is worth the price (\$30 would be my guess) for members who would like to try an integrated program. The Whimper is written in FrameWork, using its writing and outlining tools.

For those who wrote asking about Microsoft Word 3.1, no. I tried really hard to get several hundred copies they have stored in boxes in Seattle, manuals and all. But they refused, in the insulting, snotty way of major companies, they made lovely promises whenever they were caught on the phone, but never kept promises and never answered phone messages or letters. You all have my permission to pirate Microsoft software.

## Big Fall for Big Iron

We have had a few members suggest hooking into company or university mainframes. GFSO and DLC, for example, do it and like it. DLC says that when you hook in, you find "really enough mainframe software to require more than twenty-three continually updated volumes to describe it all."

Computing was supposed to get rid of the paper all over our desks, but until now it's been increasing instead. I still have high hopes. The Orphan HQ desk has been 1/5 walnut veneer and 4/5 paper in 1989, an improvement over 1988.

Mainframers, it seems, are addicted to paper in huge amounts. They love to answer a simple question with a printout that gives you a bad back. DLC is the most recent example. He has sent just two short paragraphs I've found interesting enough to put in the Whimper — hidden in 20 pounds (estimated) of zeroxes and printouts. Our next-most prolific correspondent, the brilliant RCP, has sent only 5 ounces which produced five pages of Whimper. Mainframes make too much paper. And since they are nearly worthless next to the new wave of networked PC's, I don't see much point in you guys trying to connect to them.

The up-side of this change is that IBM is about to take the big fall they have so long deserved. Sell your IBM stock.

The issue of running Ventura Publisher on the 2000 is dead. I have put in a week's work

on it, and it still plays dead. I feel sure that Orphan William Vogt of the Netherlands has got it running, but my ignorance plus the complexity and brevity of his directions kept Ventura from running at HQ. I wrote him plaintive letters asking for exact copies of the files that ran for him, plus exact keystrokes, but I guess he's a busy man. All I got was another note, even shorter. He tried, I tried, and Xerox (with big-company nastiness) tried. They sent their version 1.1, and they have a pile of them still on the shelf by their 800 operators in Dallas.

Few of you have talked about PageMaker 1, Ventura's competing cousin that makes the Whimper. It runs under Windows 1, Tandy-adapted, a rare bird these days. Ventura runs under the 2000 version of Gem 1, an even rarer bird. They do about the same job as each other, with PageMaker being more like a pasteup table and Ventura more like a stylish teletype. Chances are, only one or two of you will be distressed that I couldn't review Ventura.

It seems that every time you check an Orphan, you find a fossil running an antique on a relic.

## Three Monopolies

The indomitable RCF has sent in two monopoly programs he picked off the wire, which are perhaps not as impressive as the ones we sell in the Souvenir Shop, but which take different approaches to displaying the game. Both were fun for me to play, and should give you some enjoyment. I loaded them both on the same disk with the big Petersen Monopoly, on January 17. Once again, I didn't bother to ask Parker Brothers about it. For any who already bought the Monopoly disk from us, enjoy the single Monopoly game you got. It's well worth the price.

## Shareware Heaven

We have only three members signifying that they want to shop among the megabytes of modemware we got off

the Juge wire. So no listing here. FBS, DWC1 and RNB, please send \$5 if you want a 10-page zerox of all the files on the 46 disks we have. Then order as many as you like as standard disks. See the Souvenir Shop. This goes for all others wanting to raid that pile, which as predicted I have not had time to review and sift. No guarantees as to the quality or even runnability of the Juge files, but all are allegedly runnable on the 2000. I have found many that don't, but most seem to. Some are dumb and some are great.

## Ride the Tiger

"The file WP.COM in the WP-STUFF subdirectory of the WORDS disk write-protected my hard drive!" writes DWC. Egad, I guess that proves that Orphan software works! "I'll never call it again!!!!" DWC continues. "I couldn't write or copy anything to C:. I tried every switch I could think of with WP.COM, but no luck. After much backing up and panic, I called a guru I know 90 miles away and he walked me through a DEBUG session over the phone. We discovered that byte 130B of IO.SYS had been changed from 27 to 26. Changing it back unprotected it! Whew!!!!"

This is a dandy proof that one never changes or tosses original software disks, such as our DOS (which has the IO.SYS).

DWC has now wiped out the dreadful trap he fell into. You all (including DWC) can invoke WP.COM without fear, for those situations (virus fear, meddling colleagues) where you want a hard disk to be as safe as a sticky-tabbed floppy.

A scanning of the WP.ASM file on that disk seems to indicate that the write protection can be toggled on and off (after WP itself is invoked) with the keyboard hit, CTRL/PRINT.

The .ASM file and my own thinking indicates that the program affects only drive C: (or a different one if you debug the 32 (computerese for #2=drive C:) to a 33 (D:), 34, etc. So you can put stuff that needs absolute safety on the protected C: drive (before protecting), but keep writing to D:, E: and so on. This applies even if your physically only hard drive has been divided into C:D:E:F: (as we do at HQ).

## The Guru Typewriter

Most of us pull up word-processors whenever we want to type more than one line of stuff. The one-line and one-word stuff goes into our databases (like your lists of customers and stock on hand) and our spreadsheets (like your tables of the financial doings of your company).

However, about 10% of us have got the mental muscle to create software that does a specific job for one company or one person. It can be as useful as a \$500 software package, but it's set especially for you, and enhanced with special extra jobs you need. That raises its value to \$5000 from a pricey consultant — or \$0 (and lots of labor) from the do-it-yourself programmer.

A few of these programmers use a word processor, but in their hands a smoothie like Word or WordPerfect becomes a crippled elephant.

Your letter to Mom or annual report needs an indent before each paragraph and fairly even margins — no more. But a program to control warehouse stock and buying has a hundred more style requirements. Here are a few: lines must flow to their ends without dropping down, even if they are ten screens long; different kinds of commands work only if they have different left margins and different indents (the left margins of their first lines); capital letters may be required for all or certain words; odd-looking or invisible code characters are required in certain spots, or throughout.

Programmers have long since abandoned word processors and bought "programmers' editors." When a programmer goes into a software store, the clerk leads him to a shelf loaded with fat WordPerfect boxes. "No," says the programmer. After the puzzled clerk moves on to another customer, the programmer digs through a bottom shelf and comes up with Brief, QEdit or the Norton Editor. If he's luckier, he finds VEdit Plus.

This is not a true review of VEdit, because YFL is a member of that 90% group, non-programmers. I occasionally grind out a page of programming in DBXL. It leads me by the hand, with its kindly internal programming editor called "modify command". I also pore through programs members send in, looking for clues to their value, origin and possibilities. So I know a touch of programming, but I'm not up to the VEdit class.

Half a dozen members answered the Whimper's call to review VEdit six months ago, and I selected ex-member DSG. He's now an ex-member because he stole our VEdit,

sending back neither it nor his review. After I called him a dozen times and got a dozen "tomorrow" promises, I stopped believing he was honest. VEdit kindly furnished Orphans with another copy, a later version specially adapted to the 2000 (they still use their 2000).

They made up a demo disk of this 3.23 version, which allegedly uses our mouse and has other improvements. It has replaced the older demo disk in the Souvenir Shop.

## Reviews

Their president writes: "I personally know that the many Tandy 2000 users sincerely appreciate your commitment to supporting them over the years. Tandy 2000 Orphans is the life and breath of their computers."

My reading about VEdit, in the computer press and letters from members, convinces me that VEdit Plus (the fanciest of three versions) is the best programmers' editor on the market. That's my review, and it's the best I can do. If you hope ever to program, seizing a business advantage over 90% of users and maybe 75% of businesses, do buy VEdit's 3.23, 2000 version. Check this from VEdit President Theodore Green's letter:

"As a special service to Tandy 2000 users, we will sell the Tandy-2000-specific versions at a discounted price. I would appreciate it if you could mention this special pricing in the next (and final) issue of the Whimper. VEdit Plus (\$185 list) \$60; VEdit (\$69 list) \$40; VEdit Jr. (\$29 list) \$20. VSpell and VPrint (\$79 list) \$40."

I must have told him that we Orphans are not a wealthy group. That VEdit Plus price is way below even his quantity-999 wholesale. You will note that his three discounts vary from 31% to 68%, giving you a strong hint that PLUS is the package you ought to be buying. I agree with his hint: buy VEdit Plus.

The "Jr." version is apparently a powerful program editor — menus, macros under any keys, great speed, and

VEdit's amazing 1000-step undo, which can revive things you deleted many hours back.

Midsized VEdit has all this plus multiple file and window operations, harmony with many programming languages, and a search/replace operation far deeper and smarter than you can find in a word processor.

The advanced VEdit Plus has all the above, but adds an unlimited macro language that can do anything a human can do to a text file. Imagine

# 15

finding every 7 in the file, multiplying it by pi, and changing any POP in the line after it to PUSH, for a text file a million characters long, in perhaps eight seconds. Like that muscle in your arm, it has power seldom needed but occasionally vital. Buy VEdit Plus for your future programming, even if you're moving to a compatible. The 2000 price is a steal, with equal performance. If you get a compatible, a few clams will get you a compatible upgrade of VEdit.

I have read the manual and played with the disks. The picture I get is of elegant, super-brief programming by people very proud of their skill. Here's an example: Their spelling dictionary packs 70,000 words plus all their variants (go, went, going, gone; woman, women; conglomeration, conglomerations) in 195,000 characters of disk or 2000 memory. That's an average of 2.8 letters per word, including all the hidden commands for shortening and looking up the words. Now that's programming!

They wrote a 100,000-word dictionary for one deep-pockets customer, looked at the 30,000 extras, and decided you would never need them. Their programmers' reluctance may be related to the coincidence that 70,000 is a bit more than 2 to the 16th power. Chances are, you'll only wander outside their 70,000 words once in a week's work, but the program lets you add multiple extra dictionaries for when you do.

CompuView, P.O. Box 1586, Ann Arbor, MI 48106; 313-996-1299 (no 800 #).

# BibleCrunch, Five-O-Crunch, and Big Chew

Computers are nice toys for writers like me, cutting my work time in half with a more polished product as a bonus. But a computer becomes a whole roomful of expert slaves on certain tasks, as in databasing and spreadsheeting.

Now another job needing a roomful of slaves, research reading, has been unlocked by the computer. The key is hypertext.

Sure, you have no trouble looking up the population of Afghanistan. But if you want to find how many times Shakespeare mentioned boats, or list all people in your megabyte mailing list with "Avenue" in their addresses, you're suddenly into a task that takes weeks. Hypertext delivers the goods, in style, in less than a second.

ETC, Electronic Text Corporation, makes the hypertext program WordCruncher. They sell a small niblet of early booksets that have WordCruncher tied into them: Shakespeare, the Bible, "works of" Emerson, Twain and another dozen, some government publications, and a pile of material called "the Constitution papers" that helps you find what our founding fathers meant. Before long you'll find a lot of biggies on optical disk from third-party suppliers: laws, medical literature, anything huge that comes out every year (so it's on disk at the publisher's place). Older stuff, like books published before 1985, will surge onto optical disks as soon as someone invents a scanner that doesn't mumble.

ETC means "and the rest" in Latin, which is a good name for a company that lets you search through all the stuff you don't have the time to read. You might think that a word processor with the speed of WordPerfect would solve the problem, but it won't. While it finds all uses of "Orphan" in a Whimper in two or three minutes, it would take several days to find all uses of "slay" and "slew" in the Bible, one by agonizing one. WordCruncher does it in less than a second.

WordCruncher cheats. Before letting you loose with your search commands (which can be very complicated), WordCruncher reads the entire text you feed it, making an index of every useful word. It skips a, the, and, it — all the garbage, subject to your changing the garbage list if you like. The index gets pretty huge, but it whizzes nicely on and off a hard drive.

The indexing manual is fairly clear. I indexed a Whimper within half an hour of opening the manual — after, of course, the

usual half-hour installation process, which got the indexing and viewing programs onto a hard drive. A minute later, I had on the screen a dozen places where "hard" and "drive" appeared together in the December issue, which I scrolled with several key hits. The response is on the screen before the key is all the way down, even in the complete Bible. I asked ETC if I could make up a WordCrunched Whimper Hamper, and they said no. (\$1500 for licensing is a NO in my little world.)

The ETC Bible (with a little help from King James and Jesus's PR staff) works like a charm on the 2000. The "runtime" WordCruncher buried in the Bible disks does not work separately on other text. It will only "run" during the "time" you're doing Bible study. A hard drive is required, and a 512K memory. An important note: Like a lot of text programs, this IBM-compatible software DOES NOT WORK on the 2000 until you fire up the RDB text grail, which sells in two versions in the Souvenir Shop. I used v. 2.

The hypertext Bible is public domain, so it's in the Souvenir Shop at \$45 for its 9 720K disks. It's a thrilling pre-

view of what standalone WordCruncher can do. You can also buy BibleCrunch from ETC for \$100, but it probably won't load into the 2000. The separate WordCruncher, with ability to index any huge ASCII file and later explore it, is \$300.

ETC had a bad week with my review copies. They kept sending me glitchy disks and incomplete programs. But they were superpolite and spent a mint on FedEx boxes. When my collection was finally healthy, it blew away all searching and indexing programs I had ever seen.

As soon as I had loaded the eight 720K Bible disks, I called for WC and felt my way through the simple menus. Suddenly I was sitting dead-center in the Bible alphabet, looking at Naamo or something like that. An arrow key moved me up a little, a PGUP some more. But typing in what I wanted gave instant results.

I started with Zachary, my son's allegedly biblical name. Instantly I saw "zachariah" (highlighted) and "zacharias". A hit on ENTER flashed me an immediate screenful of three-line Zachariah quotes. Arrows and ENTER open your Bible to that page, full-screen.

## On the Track of Zack

It seems that Zack was married to (The Virgin) Mary's cousin Elizabeth. Betsy dallied with the Holy Ghost six months before said Ghost met Mary. When Mary, a shy girl with no boyfriend but her grandfatherly companion Joseph, asked the visiting Ghost why she should believe his claim that he would make her pregnant with the son of God, he gave cousin Elizabeth as a reference.

Curious, Mary hopped on a donkey and visited Cousin Betsy. When she saw that Betsy, well over 50, was six months pregnant, Mary decided to believe the Holy Ghost. It's lucky she did. Zachariah had expressed doubts, so the Holy Ghost made him speechless for nine months until a son

was born to Elizabeth. He was by custom named Zachariah Jr., although the Ghost had specified John. As soon as the speechless but hand-waving Zachariah scraped "John" on a tablet, his voice came back. Laughing joyfully about his recovery, he told his amazing story to Elizabeth and the in-laws.

Baby John was likable and did well in swim class. He grew up to be a professional dunker of people adopting the new religion of his second cousin Jesus. You remember John the Baptist.

The other Zachary, Zacharias, was a king of Israel before the time of Zachariah. Not much was said about him in BibleCrunch, except that he was a stinker.



All this information blasted onto the headquarters VM-1 as fast as I could hit the ENTER key. Each quote booms to full screen with one ENTER, and back to small with ESC.

You may not care about Jesus's first-cousin-once-removed Zack, but you will care very much about something else — something buried in a mountain of text as big as a Bible or a Britannica. WordCruncher, running on the 2000 under TEXGRAIL, can find it for you in one second flat.

ETC provided a good sample: The WordPerfect 5 manual. After a ten-minute installation, I found that every word of the WP5 paper manual on my shelf was hiding inside the VM-1. They even included the WordPerfect Workbook! With the usual easy pokes, I leaped through dozens of passages that used the words "character," "undelete" and so on. Oddly, the page numbers in 5-0-Crunch were wrong, and multiple-word searches didn't work (although they do in BibleCrunch). WordCruncher searches for two (or more) words in the same page, verse, or passage of X (you name it) consecutive letters.

## The Perfect Perfect Manual

You know what a pain manuals are, even the careful ones WordPerfect makes. You want to know how to use columns, so you look up columns in the index and grapple with the fat book for twenty minutes. Often none of the entries indexed has what you want, so you do the strenuous routine with related words.

5-0-Crunch wipes out all the fumbling and 99.999% of the searching time. Although its screen is a bit cluttered, far less easy to read than book pages, it gets the job done superquick.

One caution with ETC's "programs about programs" — it makes no sense to quit WP5 to read in 5-0-Crunch, quit, and get back into WP5 hoping you remember the keystrokes you just learned. Doing that, a paper manual is the smart way. You must use the ETC system by multitasking. And since our Windows1 can't multitask big programs, the right process is one Orphans has often urged: two 2000s working side-by-side, in this case with two screens.

Electronic Text Corporation is at 778 South 400 East, Orem, Utah 84058; 800-234-0546 or 801-226-0616. With WordPerfect across town, it's no wonder that they Crunch the manual for WordPerfect (\$40 for 4.2 or 5.0, your choice, 5.1 allegedly coming).

# Infinity in Your Hand

Imagine putting the name of every person in the world on an eight-foot shelf of 5-inch bathroom tiles. Then imagine a box no bigger than a bathroom floor scale that lets you find any person on earth in ten seconds. That's the dream of the infinite hard drive, and it has already come true on the Tandy 2000. Mainframes, goodbye.

An Iomega salesman has brought Orphan HQ their twin-44-meg cartridge drive. (That 44 misleads you. It's 44 on a compatible, but only 33.4 megabytes per cartridge on the 2000. When you ask it to format more, it just refuses and dumps you at the DOS prompt.)

The most surprising thing about the twin-44 is that I don't have to review it. Everything I said in my reviews of the twin-20 (II4p9, II5p7) applies. The 20/20 and 44/44 boxes are identical outside, except for a touch of blue on the 44. At 2½ inches plus cork feet, the rugged steel case fits nicely under a monitor or on a cpu. I keep mine on its side in a 3-computer sandwich of floor stands under the Orphan laser (picture, II-2, p.4). The cartridges also look identical, but I understand that they have five floppies stacked inside, while the 20meg cartridges have two.

# 17

The Orphan cartridge disk operates the 44 (I'll call it the 33) exactly as it does the 20, with one exception: the 33 is faster. It really makes little difference in the quick operations I do on these cartridge drives, but the former WHIZZZZZZ has become WHIZ. Don't get me wrong: these drives are as quiet as mice.

The other change in operation is that after I stuff in 20 megs (an easy task with all the nice software the 2000 has), I find that I can add another 13 megabytes. It's handy to have that extra space.

## Slip-Tick, Britannica

Extra space, however, is the marvel of Iomega. As long as you keep buying their 44 (33) megabyte cartridges (for \$80 each, street price), your "hard disk" storage is unlimited. Sure, the first 44 megs costs you a thousand clams (street), while 42 megs on a hard drive costs you only \$300 (street). But when the next 44 costs you \$80, and the next and next and next, you begin to realize you're in the promised land of hard drive storage prices.

I call these little stacks of 5-inch floppies in 1/4-inch-thick black plastic boxes "hard" because they act like hard drives. They answer a question from the 2000 in 22 or 33 milliseconds (numbers can mislead), which is the speed of a good hard drive. If you think that's slow, try running the same software off a floppy, waiting half a second (500 milliseconds) for the 2000 to buzz out each instruction or bit of data.

## Alphabet Orchestra

You don't have to worry about how to fit all these drives into the C: or D: you heard the 2000 might use. At headquarters, all the 2000s have these letter drives: A:floppy, B:floppy (some are 3-inch), C:hard (10 megs of a Seagate251 40meg), D:hard (another 10, same Seagate), E:hard 10 (getting bored?), F:hard 10, G:RAMdrive (hidden in memory chips by Envision trickery, 1 to 640K as we choose), H:Ramdrive, I:Iomega 33, and J:Iomega 33. The 2000 accepts drives up through letter N or Z (depending on whom you believe).

(continued next page)

## The Human Grail

RCF, our Louisiana flash, got his 2000 rewrites of several programs to headquarters some time ago. I have mixed results to report. I skipped his rewrite of Norton Editor, a programming aid, because I'm hardly qualified in that field, and we have other program editors that serve well, both in Orphan disks and the open market (see VEdit review, this issue). I was unable to run his PrintMaster (beyond its opening screens), because Or-

phans has only the Orphan laser: no dot printer, which is the output PrintMaster enhances. I tried his DirectoryMagic, which refused to run for me, even with a TEXGRAIL crutch.

The one program from RCF's packed 720K disk that I got running was his 2000 version of NortonCommander, a DOS shell.

A DOS shell is a PC pretending to be an Apple or Macintosh. It gives you a pretty screen with posters and boxes and nice print. It usually has handy tools and mouse control, and can be quicker than DOS when you get used to it. The trouble is, an experienced (1 year +) computer user will soon want stuff that's not on the lively lists, and go back to the cold black DOS screen. Then another shell slips into your A: drive and you play with that one for a while. DOS shells are like six-week sweethearts: delightful but disposable. DOS itself is like a wife or husband: difficult but dependable.

In RCF's Commander, most features turned up absent. The function keys and the mouse seemed drunk or dead.

Those who sent copies of the IBM versions plus manuals for any one of these programs, got the RCF disk (JAN) to play with. It is still available (but now as a standard disk), to anyone sending a zerox of the manual title page of one of the four programs.

A late flash: one member who sent for the RCF disk had great success with PrintMaster. DWC writes:

"PrintMaster with the RCF fix WORKED! It was great to SEE the graphics! The .EXE file that worked for my 512K was PMMAIN2. PMMAIN did not work. However, the RCF PrintMaster refused to work with a PM 2.0 file: "Cannot use files from version 1.5 or earlier." He wants to know if RCF can fix version 2.0, which "has smoothed printing and some other goodies." I doubt that he has time, DWC, but RCF, you have my permission to do it.

## Now: Rat-Trap

Orphan RNB has brought us better controls with very pleasing tricks, packed into two elegantly tiny files.

Have you ever gotten tired of the way a spot on your screen blinks at you, urging you to get busy and type something? It's a slight but constant irritation. RNB provides a way to change the cursor — the blinking spot — to a blinking line or even nothing. You can even recapture the soothing blankness of typewriter paper: one of the controls lets you hide your A> or C> prompt, pondering in velvet VM-1 blackness. I call this RNB routine StopItch.

Another of his tricks resembles MouseTrap, which the Souvenir Shop used to carry. But it's a lot better.

The RNB routine, which he calls Rat-Trap for its superiority over MouseTrap, turns the mouse into a magnificent machine. Even in DOS, and in any program that doesn't impose its own mouse routine, the mouse acts as all four arrow keys, with variable speeds each way. The other program did that, but this one allows you to hide any key on the keyboard under the left and right buttons of our DigiMouse, just by first typing B (for buttons). I tried hiding letters and control keys, with perfect results in DOS. Inside mouseless programs, the results are a touch variable, but always dependable once you find out the twists.

In a demanding job which you find includes a lot of use of two keys and the arrow keys, you can cut your time down to a tenth of what it was. Even in plain old DOS, you can hook up a command reviewer/editor like NDE or CED (see the Orphan disks), and the intelligent mouse makes your work a breeze.

As with all tricks that work from DOS typing, you can store various versions of Rat-Trap in the .BAT files that call your various jobs. Each program will move faster with its customized mouse under your hand.

As of January 17, these two bright little programs are on the ABE disk with their instructions. As always, my regrets to those who have purchased a disk before later files came in and were added to it.

(continued)

### Infinity Times Three

This twin-33 drive runs off all three of the main headquarters computers, each of which has a cartridge board in back. The trick is a 4-way 37-pin switch I tucked into a free space. See previous Whimpers for finding it. This way, as much as 33 megs can whistle from machine A's hard drive to machine C's, in five or ten minutes. Hard drive backup has never been easier or more reliable, although Orphan operations still back up automatically to floppies a dozen times a day.

One nice touch: you can pull out (and store) 33 megabytes in five seconds, and put in a different 33 megs just as quick. You hit the "stop" key and wait five seconds while the motor brakes to a stop. Then the cartridge unlocks with a click and you slip it out.

You might point out that 33 megabytes on our favorite Dysan floppies costs only \$55 to Iomega's \$80, but finding a fact in that five-inch pile of 46 floppies takes you an hour of fumbling. Raiding a single whip-fast cartridge takes one minute for the same search, including 59 seconds for typing the instructions.

When you fall victim to compatible fever, the purchase of a \$200 slide-in half-length board adapts your Iomega 44 to your new PC. Or put four boards in your four PC's, with that 37-line switch. And of course you'll pick up the missing 11 megs on each cartridge on your bookshelf.

**Late Flash:** RCF says all his programs on the JAN disk assume 896K memory. Those with less must first type DEBUG <enter> and then D 0:474. If the dump from memory you see starts with CO DE, you have 896K. If you see CO AE or something else, write it down. Then, in debug, search of all his JAN programs for DE CO (you reverse the bytes) and change each one to AE CO (or whatever you found at 0:474, reversed). This change is not needed in his PrintMaster.

\* 18

|       |                     |              |       |                       |              |       |                     |              |
|-------|---------------------|--------------|-------|-----------------------|--------------|-------|---------------------|--------------|
| 00000 | James P. Reilly     | 516 935 6200 | 19808 | Robert H. Nelson      | 302 994 2181 | 32789 | James G. Lewis      | 305 628 5073 |
| 00000 | William A. Trimper  | 816 461 7078 | 19808 | John C. Merritt III   | 302 995 2452 | 32790 | Paul J. Turner      | 305 834 4232 |
| 00708 | David Dayton        | 809 833 9242 | 19810 | Robert B. Muderick    | 302 478 1751 | 32792 | Lawrence M. Long    | 305 628 3141 |
| 00936 | Ivan M. Bou         | 809 859 2231 | 20041 | Wm M. O'Rourke        | 703 437 0806 | 32802 | Ronald R. Findell   | 305 628 4401 |
| 02114 | Arthur H. MacLeod   | 617 723 3495 | 20560 | Andr.G.Gerberich      | 703 830 2317 | 32859 | Stephen D. Wood     | 305 857 8375 |
| 02150 | Louie J. Vargas     | 617 561 0947 | 20653 | John Ramos, Jr.       | 301 862 3442 | 32859 | William J. Strasser | 407 240 9507 |
| 02154 | Thomas J. McHugh    | 617 893 0624 | 20657 | Dr. Frank E. Shaw     | 301 326 2875 | 32903 | Jos.M. Schuenger    | 305 777 3313 |
| 02155 | Hussein Saad        | 617 391 0099 | 20743 | Sol P. Hamilton       | 301 350 1774 | 32935 | Wm F. Tweeddale     | 000 000 0000 |
| 02322 | James Connolly      | 508 583 0291 | 20747 | Derek R. Butler       | 301 735 2054 | 32937 | Robert Cromwell     | 305 773 6557 |
| 02341 | Charles M. Beatty   | 617 378 3056 | 20774 | Gery A. Glover        | 301 599 9595 | 32937 | Tim E. Brothers     | 407 777 3222 |
| 02368 | A.J. Weiner         | 617 963 9310 | 20901 | David Steigerwald     | 301 681 6791 | 32940 | Edward M. Suter     | 305 242 1145 |
| 02368 | Peter W.Lundstrom   | 617 963 0046 | 20904 | Andrew B. Felix       | 301 572 4739 | 32953 | George A. Jacques   | 614 866 9412 |
| 02401 | Dennis Foley        | 617 583 8823 | 21093 | Michael P. Bazzani    | 301 252 7573 | 33122 | Alex Mamud          | 305 477 0800 |
| 02720 | Neil E. Gundel      | 508 677 0988 | 21227 | Julius M. Scott       | 301 247 3639 | 33193 | Robert P. Miller    | 305 382 3217 |
| 02806 | Anthony D. Aloisio  | 401 246 0555 | 21655 | Budne C. Reinke       | 301 673 2318 | 33309 | Robert A. Hopkins   | 305 739 3099 |
| 02816 | Walter A. Tower     | 491 397 4038 | 21740 | H. Daniel Boon        | 301 432 6619 | 33316 | E.N. Powell         | 305 523 6791 |
| 02860 | Roger A. Martin     | 401 723 6825 | 22071 | John M. Wallis        | 703 391 0814 | 33331 | Marion J. Julson    | 305 434 0456 |
| 02889 | R. Kyle Baker       | 401 737 0429 | 22215 | Randal J.LaPorte      | 703 549 2353 | 33404 | Jamie A. Barone     | 305 790 2849 |
| 03051 | Jay Bitsack         | 617 862 8820 | 22503 | John L. Overholt      | 804 435 6055 | 33424 | Gene Hochman        | 201 992 0084 |
| 03082 | Priscilla E. Brown  | 603 654 9427 | 22960 | Frank S. Walker       | 703 672 4167 | 33458 | Tom C. Welch        | 407 575 0140 |
| 03444 | Bruce McClellan     | 603 563 8849 | 23113 | David Peterson        | 804 330 3301 | 33460 | John Lynch          | 305 582 1338 |
| 04343 | Wallace W. Hinckley | 207 377 8834 | 23113 | Tom Kearns            | 704 552 6702 | 33511 | Douglas J. Behnke   | 813 681 4043 |
| 04662 | Robert Davis        | 207 276 3991 | 23320 | Stephen J. McNeil     | 804 543 2264 | 33511 | William D. Penrose  | 813 681 4264 |
| 04740 | Philip T. Smiley    | 207 764 4465 | 23455 | Edward G. Frye        | 804 497 4967 | 33713 | Lyman J. Hunter     | 813 525 6960 |
| 04769 | Michael N. Carlos   | 207 764 6022 | 23462 | Claude A. Norton, III | 804 474 1259 | 33901 | Tom Puza            | 813 334 1100 |
| 05068 | Michael Ferro       | 802 763 8575 |       |                       |              |       |                     |              |
| 05201 | Bill R. Lyons       | 802 442 6559 |       |                       |              |       |                     |              |
| 05486 | Dolores M. Leff     | 802 372 4502 |       |                       |              |       |                     |              |
| 06092 | John E. Yocom       | 203 658 6955 |       |                       |              |       |                     |              |
| 06096 | Alec V. Head        | 201 529 4548 |       |                       |              |       |                     |              |
| 06098 | Ed Banas            | 203 379 2140 |       |                       |              |       |                     |              |
| 06109 | Pamela Spencer      | 203 529 6645 |       |                       |              |       |                     |              |
| 06416 | Stephen D. Thorpe   | 203 635 3229 |       |                       |              |       |                     |              |
| 06437 | Robert G. Howard    | 203 453 2842 |       |                       |              |       |                     |              |
| 06443 | Gerald Klein        | 203 245 0372 |       |                       |              |       |                     |              |
| 06897 | James A. Rothschild | 203 762 0685 |       |                       |              |       |                     |              |
| 07009 | Mario Accumanno     | 201 857 5929 |       |                       |              |       |                     |              |
| 07010 | Vladimir Pazhino    | 201 941 5785 |       |                       |              |       |                     |              |
| 07062 | Stanley W. Rhea     | 201 526 5012 |       |                       |              |       |                     |              |
| 07450 | A.R. Dilworth       | 201 447 5350 |       |                       |              |       |                     |              |
| 07450 | Don A. MacLennan    | 201 447 3710 |       |                       |              |       |                     |              |
| 07514 | Carlos Negrini      | 201 684 1470 |       |                       |              |       |                     |              |
| 07931 | James E. Rutledge   | 201 234 0579 |       |                       |              |       |                     |              |
| 07940 | L. Steve Snow       | 201 822 3970 |       |                       |              |       |                     |              |
| 08312 | Charles R. Diem     | 609 881 4028 |       |                       |              |       |                     |              |
| 08540 | Leonard S. Charlap  | 609 924 4066 |       |                       |              |       |                     |              |
| 08810 | Ivan Sedneff        | 000 000 0000 |       |                       |              |       |                     |              |
| 10024 | A.Fremont-Smith     | 212 362 9319 |       |                       |              |       |                     |              |
| 10461 | Mary Rose Leacy     | 212 829 9676 |       |                       |              |       |                     |              |
| 10463 | Manuel A. Gonzalez  | 212 543 6821 | 23464 | Evan J. Deemer Jr.    | 804 420 1560 | 34058 | Brent Shewbridge    | 305 655 5155 |
| 10589 | Chris Crawford      | 914 277 5317 | 23503 | R.H. Walters          | 804 480 1764 | 34232 | Charles L. Rhein    | 813 371 2153 |
| 11010 | Renan Macias, M.D.  | 526 486 7295 | 23504 | Emmett L. Baxter      | 804 627 0245 | 34952 | Herbert S. Giddens  | 305 335 2437 |
| 12309 | Timothy F. O'Brien  | 000 000 0000 | 23505 | James R. Bryson       | 804 587 3971 | 34983 | Sanna L. Carnie     | 407 878 5777 |
| 12401 | Robert J. Gaus      | 914 331 0631 | 23518 | Cheri Ann Davis       | 804 857 7793 | 35203 | John C. Calhoun     | 205 853 8801 |
| 12446 | Robert B. Whitman   | 914 626 0949 | 23692 | David A. McCurdy      | 804 898 1458 | 35802 | Leland A. Wright    | 205 882 6882 |
| 12866 | Gary R. Applin      | 518 583 2876 | 23803 | James N. Wells        | 804 733 4472 | 36109 | William E. Harris   | 205 277 5082 |
| 13110 | David O. Rowell     | 315 673 3069 | 25177 | Geo.W. Holderby       | 304 727 2087 | 36330 | Tom P. Swatoski     | 205 347 5008 |
| 14047 | Paul R. Dougherty   | 716 947 5936 | 26301 | Ronald G. Clevenger   | 304 624 5454 | 36507 | James P. White      | 205 937 4117 |
| 14052 | Herbert C. Stock    | 716 652 5488 | 27612 | Thomas W. Knecht      | 919 787 0931 | 36744 | Maj. Joe Steakley   | 205 624 7626 |
| 14502 | Gerald DeBruyne     | 315 986 4515 | 27713 | Carlie J. Coats, Jr.  | 803 723 5973 | 37211 | J.Mike McCollum     | 615 833 8909 |
| 14623 | Bert Harding        | 716 424 4565 | 28092 | Roscoe H. Murray      | 704 735 8002 | 37377 | E.W. Chappell, Jr.  | 615 886 2865 |
| 14870 | Matt M. Cammen      | 607 936 3852 | 28280 | David P. Nichols      | 704 847 3059 | 37405 | Walter G. Davies    | 615 267 0874 |
| 15001 | Myra L. Fozard      | 412 375 4676 | 28658 | David L. Lewis        | 704 464 8183 | 37415 | John C. Watson      | ??? 875 5342 |
| 15068 | Thomas E. Bing, Jr. | 412 335 7701 | 28734 | Charles D. Rodgers    | 704 369 5843 | 37415 | June C. Hatcher     | 615 875 3031 |
| 15084 | Bert R. Boratko     | 412 226 2311 | 28761 | Richard S. Herron     | 704 652 6745 | 38117 | Ben R. Hipp         | 901 761 3449 |
| 15108 | Kurt W. Schreiber   | 412 859 3969 | 28787 | Lad E. Ottoff         | 704 658 0660 | 38501 | Charles E. Adams    | 615 528 8795 |
| 15210 | John A. Groll       | 412 431 4444 | 29406 | Dallas A. Swindal     | 803 744 0071 | 39194 | David W. Arnold     | 601 746 5881 |
| 15213 | Nathan E. Williams  | 412 351 6822 | 29445 | Glenn Little          | 803 797 1867 | 39209 | Leo E. McGehee      | 601 982 7146 |
| 15238 | Thomas R. Harkins   | 412 781 8330 | 29607 | OttisWayneRutledge    | 803 271 1643 | 39520 | William E. Dalton   | 601 255 1783 |
| 15370 | Ralph Wilson        | 412 627 9151 | 29801 | Terry Buyers          | 602 873 6069 | 40242 | John G. Shea, Jr.   | 502 425 1676 |
| 16001 | Jon W. Campbell     | 412 285 6311 | 30034 | William R. Harbour    | 404 284 4273 | 40243 | Charles L. Springer | ??? 239 1075 |
| 16023 | Jo Marie McKruit    | 412 352 1202 | 30501 | William Mark Kelly    | 404 536 7654 | 42301 | James D. Ryan       | 502 684 5008 |
| 16046 | William J. Nicholl  | 412 625 3541 | 30602 | C. Hugh Gardner       | 404 549 0530 | 43081 | James M. Brohard    | 614 891 9680 |
| 16323 | Allen D. Krepp      | 814 437 1036 | 30606 | Dwight E. Agner       | 404 353 7719 | 43081 | Brian D. Arnold     | 614 436 7870 |
| 16823 | Stephen W. Furst    | 814 355 5950 | 30907 | Michael S. Owens      | 404 855 9618 | 43160 | Wendell N. Hoppes   | 614 335 6708 |
| 17009 | David E. Stoicheff  | 717 248 9567 | 32019 | Richard W. Saxon      | 904 788 1634 | 43232 | Robt W. McDonald    | 614 864 2010 |
| 17112 | George Lurie        | 717 657 2789 | 32075 | Dave Parsons          | 904 257 5532 | 43449 | Myron Fredrick      | 419 898 1387 |
| 17508 | Barry J. Keene      | 717 656 0270 | 32211 | Henry D. Parks, Jr.   | 904 724 4198 | 43460 | Lyle E. Limpf       | 419 666 6201 |
| 17740 | Wendy C. Garverick  | 717 398 4853 | 32211 | David Bailey          | 904 744 5305 | 44035 | Donald J. Huffman   | 216 322 2015 |
| 17745 | Ken E. Bower Sr.    | 717 748 6229 | 32303 | William F. Jordan     | 904 385 3769 | 44102 | Gary Klein, %Algart | 216 631 1550 |
| 17745 | Donald E. Simanek   | 717 748 7213 | 32308 | Louis B. St. Petery   | 904 562 5170 | 44107 | Michael B. Malasky  | 216 222 1029 |
| 17751 | Sue S. Foust        | 717 726 6916 | 32312 | Gary Jay Karasik      | 904 668 0572 | 44116 | Don E. Sherry       | 216 331 2324 |
| 18911 | Terry L. Redinger   | 215 257 4804 | 32504 | F.D.Obermeyer         | 904 478 1438 | 44130 | William S. Lange    | 216 884 8927 |
| 19041 | Mitchell Weiss      | 215 649 9802 | 32533 | Lester G. Beasley     | 904 968 2686 | 44425 | Charles W. Glod     | 216 534 7798 |
| 19143 | Walt H. Waugaman    | ??? 521 1611 | 32580 | Donald L. Shaffer     | 904 678 6064 | 44657 | Tim Wright          | 216 868 5732 |
| 19382 | Frank J. Rogers     | 215 436 0798 | 32680 | Karl M. Kozece        | 602 870 1190 | 45044 | Robert L. Coleman   | 513 423 9981 |
| 19406 | Louis Spivak        | 215 265 3195 | 32706 | Heinz Sonnenfeld      | 904 228 2633 | 45202 | Charles G. Stocker  | 513 721 6855 |
| 19406 | Harold E. Brown     | 215 265 0510 | 32711 | Chas E. Weatherbee    | 904 394 3971 | 45243 | J. Potter Orr       | 513 271 6318 |
| 19444 | Thomas R. Riethof   | 215 828 2329 | 32743 | Robert W. Mason       | 305 846 4418 | 45246 | Edward F. Knox      | 513 552 2985 |
| 19720 | Russell E. Miller   | 302 328 6891 | 32750 | Maurice D. Lareau     | 305 831 0642 | 46012 | John W. Snider      | 317 642 3807 |

## Inactive Members

Here are all Orphans who have let their memberships expire, plus some who did not return their reply cards (or equivalents) from the November issue. Most have drifted off to compatibles, or have stopped computing. They are still valuable resources for you, given that they know the 2000. And you may find them a source of cheap or free hardware and software if you treat them right. To fit them all into a Whimper, I had to leave you some detective work. Look up the zips near your own, but bear in mind that a city close to you may have a far different zipcode, especially if it is in another state. The phone is our most recent home phone for a member, but is his business phone if he gave us no home phone. Some members have moved locally: their zips could lead you to the right phone book.

|       |                      |              |       |                     |              |
|-------|----------------------|--------------|-------|---------------------|--------------|
| 23464 | Evan J. Deemer Jr.   | 804 420 1560 | 34058 | Brent Shewbridge    | 305 655 5155 |
| 23503 | R.H. Walters         | 804 480 1764 | 34232 | Charles L. Rhein    | 813 371 2153 |
| 23504 | Emmett L. Baxter     | 804 627 0245 | 34952 | Herbert S. Giddens  | 305 335 2437 |
| 23505 | James R. Bryson      | 804 587 3971 | 34983 | Sanna L. Carnie     | 407 878 5777 |
| 23518 | Cheri Ann Davis      | 804 857 7793 | 35203 | John C. Calhoun     | 205 853 8801 |
| 23692 | David A. McCurdy     | 804 898 1458 | 35802 | Leland A. Wright    | 205 882 6882 |
| 23803 | James N. Wells       | 804 733 4472 | 36109 | William E. Harris   | 205 277 5082 |
| 25177 | Geo.W. Holderby      | 304 727 2087 | 36330 | Tom P. Swatoski     | 205 347 5008 |
| 26301 | Ronald G. Clevenger  | 304 624 5454 | 36507 | James P. White      | 205 937 4117 |
| 27612 | Thomas W. Knecht     | 919 787 0931 | 36744 | Maj. Joe Steakley   | 205 624 7626 |
| 27713 | Carlie J. Coats, Jr. | 803 723 5973 | 37211 | J.Mike McCollum     | 615 833 8909 |
| 28092 | Roscoe H. Murray     | 704 735 8002 | 37377 | E.W. Chappell, Jr.  | 615 886 2865 |
| 28280 | David P. Nichols     | 704 847 3059 | 37405 | Walter G. Davies    | 615 267 0874 |
| 28658 | David L. Lewis       | 704 464 8183 | 37415 | John C. Watson      | ??? 875 5342 |
| 28734 | Charles D. Rodgers   | 704 369 5843 | 37415 | June C. Hatcher     | 615 875 3031 |
| 28761 | Richard S. Herron    | 704 652 6745 | 38117 | Ben R. Hipp         | 901 761 3449 |
| 28787 | Lad E. Ottoff        | 704 658 0660 | 38501 | Charles E. Adams    | 615 528 8795 |
| 29406 | Dallas A. Swindal    | 803 744 0071 | 39194 | David W. Arnold     | 601 746 5881 |
| 29445 | Glenn Little         | 803 797 1867 | 39209 | Leo E. McGehee      | 601 982 7146 |
| 29607 | OttisWayneRutledge   | 803 271 1643 | 39520 | William E. Dalton   | 601 255 1783 |
| 29801 | Terry Buyers         | 602 873 6069 | 40242 | John G. Shea, Jr.   | 502 425 1676 |
| 30034 | William R. Harbour   | 404 284 4273 | 40243 | Charles L. Springer | ??? 239 1075 |
| 30501 | William Mark Kelly   | 404 536 7654 | 42301 | James D. Ryan       | 502 684 5008 |
| 30602 | C. Hugh Gardner      | 404 549 0530 | 43081 | James M. Brohard    | 614 891 9680 |
| 30606 | Dwight E. Agner      | 404 353 7719 | 43081 | Brian D. Arnold     | 614 436 7870 |
| 30907 | Michael S. Owens     | 404 855 9618 | 43160 | Wendell N. Hoppes   | 614 335 6708 |
| 32019 | Richard W. Saxon     | 904 788 1634 | 43232 | Robt W. McDonald    | 614 864 2010 |
| 32075 | Dave Parsons         | 904 257 5532 | 43449 | Myron Fredrick      | 419 898 1387 |
| 32211 | Henry D. Parks, Jr.  | 904 724 4198 | 43460 | Lyle E. Limpf       | 419 666 6201 |
| 32211 | David Bailey         | 904 744 5305 | 44035 | Donald J. Huffman   | 216 322 2015 |
| 32303 | William F. Jordan    | 904 385 3769 | 44102 | Gary Klein, %Algart | 216 631 1550 |
| 32308 | Louis B. St. Petery  | 904 562 5170 | 44107 | Michael B. Malasky  | 216 222 1029 |
| 32312 | Gary Jay Karasik     | 904 668 0572 | 44116 | Don E. Sherry       | 216 331 2324 |
| 32504 | F.D.Obermeyer        | 904 478 1438 | 44130 | William S. Lange    | 216 884 8927 |
| 32533 | Lester G. Beasley    | 904 968 2686 | 44425 | Charles W. Glod     | 216 534 7798 |
| 32580 | Donald L. Shaffer    | 904 678 6064 | 44657 | Tim Wright          | 216 868 5732 |
| 32680 | Karl M. Kozece       | 602 870 1190 | 45044 | Robert L. Coleman   |              |

|       |                     |              |       |                      |              |       |                     |              |
|-------|---------------------|--------------|-------|----------------------|--------------|-------|---------------------|--------------|
| 46058 | Keith Mohler        | 317 379 2036 | 67023 | Beth G. Tanner       | 316 263 2879 | 88101 | Walter O. Thomas    | 505 762 1818 |
| 46219 | Nikolai Burlakoff   | 317 356 4157 | 67211 | Fred Buckner         | 316 682 7738 | 89121 | Leslie C. Holden    | 702 458 2431 |
| 46254 | Steve M. Mongeon    | 317 241 5748 | 68033 | Mary Bartek          | 402 623 4347 | 89170 | Warren Wood         | 702 736 4500 |
| 46278 | David F. Wortman    | 317 873 3203 | 68134 | Larry L. White       | 402 573 1671 | 89431 | William D. Mullins  | 702 355 1276 |
| 46368 | Chuck Higgins       | 219 762 7276 | 68522 | Paul D. Gordon       | 402 474 0646 | 90240 | John R. George      | 213 927 4144 |
| 46516 | Paul W. Brossman    | 219 293 7827 | 68854 | Charles A. Pollard   | 402 854 2509 | 90302 | Douglas M. Laidlaw  | 000 000 0000 |
| 46573 | Dennis D. Graybill  | 219 862 2492 | 70053 | Richard Steiner      | 504 362 6256 | 90507 | John W. Andrus      | 213 378 9765 |
| 46580 | Ken Stringer        | 219 267 2009 | 70062 | Donald E. Wood       | 504 466 1886 | 90620 | Don G. Carolus      | 714 821 4120 |
| 46819 | D.M. Zimmerman      | 219 747 9486 | 70065 | Nofie D. Alfonso     | 504 455 3520 | 90731 | John R. Hector Jr.  | 213 832 5505 |
| 47401 | Ray J. Schneider    | 812 339 8275 | 70115 | R. Marvin Oglesby    | 504 895 2532 | 90802 | Elton G. Grammes    | 213 432 4039 |
| 48034 | David A. Westfall   | 313 356 3354 | 70129 | Harold D. Kahn       | 504 254 3728 | 91006 | Walter Wenko        | 213 657 2825 |
| 48053 | Chloe A. Leet       | 313 693 6333 | 70459 | J. Douglas Fogg      | 504 649 3687 | 91301 | Tom Viren           | 818 889 4240 |
| 48057 | J. & D. Silkwood    | ??? 852 1106 | 70535 | Mette H. Alpay       | 318 546 0641 | 91304 | Chris A. Hammer     | 818 882 5101 |
| 48064 | Jeffrey R. Seaman   | 313 373 3834 | 70562 | William J. Trappey   | 318 364 5628 | 91402 | Darrell K. Sullivan | 818 989 2812 |
| 48066 | William A. Joppi    | 313 771 2335 | 70605 | Nathan G. Yates      | 318 474 6762 | 91436 | Carl Stippelle      | 818 981 1485 |
| 48092 | Ron L. Alexander    | 313 826 8948 | 70808 | Louis W. Stirling    | 504 766 1777 | 91708 | Angel G. Lassich    | 714 591 1719 |
| 48094 | Byron Zuehlik       | 313 781 3986 | 70809 | Sandra D. Patrick    | 504 292 1221 | 92019 | Gary B. Ghio        | 619 444 7561 |
| 48094 | Michael Lacko       | 313 781 9341 | 70814 | Danny J. Watson      | 504 928 7123 | 92040 | Edward C. Moore     | 619 279 7227 |
| 48099 | James M. Susalla    | 313 524 2163 | 71033 | W. Paul Wisinger     | 000 000 0000 | 92054 | H. Glen Guyer       | 619 722 5002 |
| 48104 | Paul F. Schlenderer | 313 662 3773 | 71203 | W. Gene Wood         | 318 343 1938 | 92093 | Fred T. Parker III  | 619 224 4696 |
| 48116 | Timothy J. Bates    | 313 227 7344 | 71301 | Dan H. Hicks         | 318 448 8435 | 92104 | H. Keith Polan      | 619 280 1673 |
| 48164 | Jim Baxter          | 313 654 8856 | 71405 | Mary Ann Hines       | 318 640 4795 | 92107 | Tom F. Richason     | 619 223 4949 |
| 48232 | Roger Engelhardt    | 313 963 4760 | 72202 | Michael P. Smith     | 800 643 8026 | 92121 | Dan Rinehart        | 619 535 9043 |
| 48616 | Norman E. Diem      | 517 845 3783 | 72370 | Joe D. Lybrand       | 501 563 3389 | 92317 | Barbara Knight      | 714 337 2346 |
| 48629 | Lori L. Matthews    | 517 422 5003 | 72756 | Edgar F. Combs       | 501 636 4969 | 92374 | Ed B. Weis, Jr.     | 714 792 5941 |
| 48875 | Lori L. Fox         | 517 647 6262 | 72958 | Russell Popp         | 501 637 2878 | 92388 | Guy W. Gorton       | 714 242 4613 |
| 49001 | W.J. VandeWerken    | 616 349 8590 | 73034 | Rick Wescott         | 405 348 4321 | 92399 | Irvin N. Kuhn       | 714 797 6625 |
| 49093 | Bill Hollett        | 616 279 2423 | 73034 | Eddie M. Bobo        | 405 348 4345 | 92505 | Valdeamar Montalvo  | 714 359 3501 |
| 49443 | Robert T. Johnson   | 616 894 5871 | 73099 | Stephen S. Pye       | 405 324 1624 | 92506 | Colleen McFarland   | 714 780 0603 |
| 49635 | Jos. W. Smeltzer    | 616 882 4500 | 73102 | William Hollis Jr.   | 405 236 1254 | 92632 | William A. Eriksen  | 714 525 1378 |
| 50010 | Gene M. Asklof      | 515 292 0330 | 73118 | Wendy J. Warner      | 405 528 3511 | 92640 | Rod C. Manke        | 714 537 6299 |
| 51247 | Wm R. Bouwman       | 712 476 2780 | 73127 | David Burkleo        | ??? 495 0052 | 92649 | Sandra L. Bulloch   | 714 840 9750 |
| 52004 | Don Hess            | 319 557 1507 | 73128 | Ronald R. Warner     | 405 946 7122 | 92653 | Albert M. Holtz     | 714 380 1111 |
| 53005 | Gerald A. Ilse      | 414 782 2497 | 73141 | Dolph Martin         | 405 769 6510 | 92667 | Roberta Duke        | 000 000 0000 |
| 53022 | Gerry E. Persik     | 414 251 0692 | 73521 | Michael A. Turner    | 405 477 3348 | 92807 | Nick Luick          | 714 993 1700 |
| 53066 | Gary A. Broege      | 414 567 8276 | 74063 | Grady R. Vandiver    | 918 245 2084 | 93041 | James D. Tinder     | 805 984 9630 |
| 53110 | John A. Fehlhauer   | 414 769 9234 | 74132 | R. Chris Velasco     | 918 446 8509 | 93065 | Frank Wilhelm       | 805 526 6194 |
| 53151 | Gene P. Hopp        | 414 785 9538 | 74352 | Norwood Dunham       | 918 386 2319 | 93436 | C.E. Scheid'le      | 805 733 3657 |
| 53152 | Richard J. Fors     | 414 763 4444 | 74820 | Bob Nester           | 405 332 8630 | 93460 | Andrew Kraus        | 805 688 6339 |
| 53202 | James W. Schreier   | 414 784 1521 | 75044 | Thomas D. Selgas     | 214 530 9599 | 93543 | James Babeshoff     | 805 944 0122 |
| 53204 | Arthur J. Sikorski  | 414 645 3680 | 75050 | Jerry A. Stewart     | 214 647 4251 | 94019 | Dan Larkin          | 415 726 4743 |
| 53215 | Patricia R. Kujawa  | 414 671 2332 | 75062 | Robert M. Tharp      | 214 594 7800 | 94022 | Robert F. Cathcart  | 415 949 2822 |
| 53217 | J. Steve Shattuck   | 414 964 5752 | 75069 | James W. Young       | 214 542 4090 | 94038 | James M. Mannon     | 415 728 7253 |
| 53589 | Robert M. McKee     | 608 873 7451 | 75234 | Bob G. Barshop       | ??? 620 8213 | 94401 | Art G. Murray       | 415 342 6201 |
| 53946 | George W. Fox       | 608 837 6159 | 75248 | Vernon H. Buller     | 214 980 7044 | 94547 | Mara Z. Nathanson   | 619 583 3612 |
| 54303 | Larry Solway        | 414 499 1846 | 75460 | Anthony T. Nolan     | 214 785 5289 | 94560 | Arthur E. Bohart    | 415 793 6990 |
| 54449 | John W. Melski      | 715 384 8282 | 75951 | Thomas E. Batton     | 409 384 2428 | 94564 | James A. Blyler     | 415 724 4799 |
| 54658 | Arlene M. Wiese     | 608 483 2153 | 76010 | E.O. Vanlan ham      | 817 275 4569 | 94603 | Lawrence Day        | 415 569 3087 |
| 54952 | Russell Meerdink    | 414 725 8692 | 76045 | Sue McAvoy           | 817 779 3733 | 94705 | Delbert B. Vance    | 000 000 0000 |
| 55303 | Henry C. Brom       | 612 421 8740 | 76052 | Clint Joplín         | 817 439 3388 | 94708 | Jon'n R. Warren     | 415 528 8414 |
| 55303 | Bruce Thiel         | 612 422 1048 | 76104 | Jerry O. Russell     | 817 924 2429 | 95003 | Robert Stone        | 408 476 1477 |
| 55337 | Steven K. Weishaar  | 612 921 6379 | 76136 | Peter R. Charlton    | 817 625 9761 | 95030 | Rhys R. Lloyd       | 408 370 0761 |
| 55447 | Kristi L. Hausladen | 612 559 3394 | 76180 | Randell L. Alderfer  | 817 281 6092 | 95370 | Al Costa            | 209 532 0449 |
| 55808 | Rand. A. Johnson    | 218 626 3217 | 76401 | J.W. Worthington     | 817 968 8072 | 95482 | David L. Dickey     | 707 468 5711 |
| 57106 | Arthur F. Behring   | 605 361 2930 | 77002 | Mark S. Grantom      | 713 471 8935 | 95628 | D. A. Tourtillot    | 916 961 2631 |
| 58202 | D. & M. Lieberman   | 701 777 2621 | 77025 | Richard C. Shell     | 504 885 4540 | 95661 | Tice Elkins         | 916 782 3388 |
| 59701 | Joy Pearson         | 406 494 5550 | 77067 | John P. Tarr         | 713 875 0222 | 95677 | Greg L. Newman      | 916 624 0302 |
| 59715 | Les Neva            | 406 586 3101 | 77074 | Fred Ruecking        | 713 270 5706 | 95695 | Ronald M. Smith     | 916 662 9464 |
| 60087 | William C. Corwin   | 312 255 5772 | 77092 | Richard Cervantes    | 713 229 0562 | 95827 | Terry L. Kociemba   | 916 364 1320 |
| 60102 | Mark A. Hosticka    | 312 658 2069 | 77546 | Donald J. Warden     | 713 482 0247 | 95969 | Daniel K. Schafer   | 916 872 9132 |
| 60102 | Michael G. Salak    | 312 658 3167 | 78230 | Ray F. Harkins       | 512 344 4441 | 97019 | Curtis J. Beebe     | 503 695 2707 |
| 60148 | Russ C. Schroeder   | 312 620 5027 | 78745 | Eric E. Quintana     | 512 441 6109 | 97034 | Mike S. McElrath    | 503 635 6984 |
| 60193 | Wayne C. Grassel    | 312 894 2800 | 79045 | Jerry R. Skaggs      | 806 364 2717 | 97060 | Susan A. Sloan      | 503 669 1614 |
| 60201 | Robert D. Bonomi    | 708 570 7224 | 79106 | Harold V. McSwain    | 806 352 6524 | 97124 | Mark S. Swanson     | 503 648 1232 |
| 60441 | Kenneth E. Mires    | 815 838 1650 | 79235 | Billy R. Smith       | 806 983 2672 | 97214 | Don E. Merrill      | 503 236 2949 |
| 60449 | John E. Thompson    | 312 791 8449 | 79720 | Dallas L. Nash       | ??? 263 7450 | 97230 | Edvin E. Weickum    | 503 255 4019 |
| 60515 | Michael A. Moats    | 312 852 9741 | 79930 | Maj. Larry E. Draper | 915 566 3842 | 97230 | Ed H. Grassel, Jr.  | 503 253 0988 |
| 60525 | Milan Hamer         | 312 482 3209 | 80030 | Art Phillips         | 303 421 4857 | 97267 | Larry D. Dickson    | 503 653 7141 |
| 60540 | Edward I. Green     | 312 983 7251 | 80204 | Brian P. Bartee      | 303 722 4770 | 97267 | Delcie M. Baker     | 503 654 2188 |
| 60602 | Michael G. Logan    | 312 823 4809 | 80227 | Charles B. Pixler    | 303 989 7007 | 97499 | Kent M. Smith       | 503 849 2724 |
| 60626 | John F. McHugh      | 312 743 8463 | 80306 | R.N. Mason           | 000 000 0000 | 97702 | David G. Boynton    | 503 382 6475 |
| 60655 | John C. Gebhardt    | 312 881 7766 | 80526 | D. Doug Williams     | 303 225 0007 | 98042 | Oris G. Weaver      | 206 631 8268 |
| 60690 | Fletcher M. Durbin  | 312 522 2192 | 80526 | David S. Green       | 303 484 2046 | 98042 | Jeffrey R. Bunce    | 206 631 3219 |
| 61054 | Gary J. Melvin      | 815 734 6317 | 81657 | James D. Strain      | 303 476 1426 | 98227 | Carolyn L. Winsor   | 604 946 7211 |
| 61103 | M. Gregg Wilgus     | 815 965 4636 | 84062 | Steven E. Powell     | 801 785 5819 | 98312 | W.J. Schlichtman    | 206 830 4321 |
| 61701 | Randy E. O'Brien    | 217 829 5686 | 84105 | Jim F. Young         | 801 942 3950 | 98321 | Melvin D. Odd       | 000 000 0000 |
| 61701 | Stephen J. Volz     | 309 829 6526 | 84107 | John H. McColl       | 801 263 1646 | 98356 | John C. Carpenter   | 206 496 3233 |
| 61821 | Rupert N. Evans     | 217 352 5624 | 84121 | E. Ray Jepperson     | 801 943 4306 | 98366 | Rand. T. Kendrick   | 206 871 0303 |
| 62234 | Dennis A. Church    | 618 344 6284 | 84315 | Ken D. White         | 801 825 4119 | 98382 | Francis Schenker    | 206 683 8932 |
| 62613 | Don A. Drone        | 217 636 8803 | 84404 | John T. Stoker       | 801 392 0376 | 98466 | Tim J. Edwards      | 206 564 6489 |
| 62681 | F.L. Meisenheimer   | 309 329 2253 | 85044 | Jim C. Schoonover    | ??? 468 0231 | 98498 | George W. Lightner  | 000 584 9477 |
| 63104 | Lawrence Beckham    | 314 436 1648 | 85253 | R. C. Graham         | 602 998 7069 | 98664 | David M. Rockwood   | 206 695 9573 |
| 63131 | Donald A. Buttram   | 314 822 7352 | 85268 | Paul A. Elias        | 602 837 8872 | 98734 | S.D. McConaghy      | 206 841 4995 |
| 63670 | Ed James Moreau     | 314 883 3430 | 85705 | Robert E. Olson      | 602 887 9290 | 98902 | Dennis R. Griffin   | 801 973 2200 |
| 64012 | Jim Howard          | 816 331 1017 | 85705 | Dorothy L. Lee       | 602 624 2337 | 99114 | George Stahly       | 509 684 4773 |
| 64068 | Stuart Elliott      | 816 781 4207 | 85711 | Wilma Rush           | 602 287 6909 | 99252 | Dale Bush           | ??? 993 1700 |
| 64836 | Christopher Huff    | 417 358 2610 | 85716 | Darryl S. Jakes      | 602 325 5134 | 99301 | D.W. Nechodom       | 509 547 4836 |
| 64836 | Randall G. Adams    | 417 358 9153 | 85719 | Lee Harbers          | 602 297 8047 | 99352 | Dale E. Bush        | 509 943 2558 |
| 64850 | Denzil G. Danner    | 000 000 0000 | 85748 | Bruce C. Taylor      | 602 298 6095 | 99502 | Keith B. Maxwell    | 907 243 2559 |
| 65101 | Robert C. Mingus    | 314 634 6232 | 87112 | Philip Blume, M.D.   | 505 294 1976 | 99507 | Jerry A. Floyd      | 907 562 4407 |

# Souvenir Shop

**YOUR ORDER**— Please order by the short all-caps title, like 03 for MS-DOS 2.11.03. All prices include postage, packing and handling except as noted below in "Foreign Orphans".

**FOREIGN ORPHANS**— add \$5.00\* per order of any size, but omit the five with orders for documents only, if the total price is under \$8.00. All foreign orders go air mail. The \$5.00\* pays for the major problems that money transfers and foreign shipping give us. It also pays for the painful back-and-forth correspondence with foreign Orphans who ignore this caution. \*(Be sure to see "Money" below.)

**MONEY**— SEND CASH IF YOUR ORDER IS LESS THAN \$10. The mail is 99.99% safe, and checks mean I have to head for the bank. U.S. checks (ONLY U.S.!) are best for orders over \$10. "Tandy 2000 Orphans" or "Orphans" (NOT "Whimper") is good on the pay-to line. Canadian postal money orders are okay, but NO Canadian checks (even with U.S. bank branches and U.S. dollars) will be cashed any more, or even returned.

**DISKS**— We use top-quality 96tpi DSQD disks with hub rings, Dysan 204/2D with reorder#802604-02, formatted to 720K.

## RENEWAL

No reminder will be sent to you, but that date on top of the mailing label of this last Whimper is a fairly heavy hint. Expired members ordering from the Souvenir Shop will not receive their orders; their checks will be filed, not cashed.

Extending your membership for a year costs \$12 if your Orphan mailing address is in the U.S. or its territories. It's \$12 for the military APO's and FPO's, \$15 for all foreign countries.

## STANDARD DISKS

All "standard" (no price shown) disks are \$10.00. BUT: In a single order, any second and further standard disks are \$5.00 each. This is because multiple-disk orders are easier and less costly at headquarters.

**BIOS:** The famous secret Tandy code for the 2000 BIOS, unearthed by a helpful former member. It is so big (unpacking to 3 or 4 megabytes, mostly spaces) that we have it packed on a floppy in ZIP form, with the little 22K PKUNZIP and instructions, to unpack it for you. Also included, a small group of files

that control TSR's, the background programs that hide out of sight until called by a key-stroke.

**FIXBIO:** Changes to the 2000 BIOS by guru RCS which let you shorten boot time, change some keys on the keyboard to solve problems, and expand the 2000's hard drive capacity. Described in the December 1989 issue's Hardware Help.

**UTIL:** A new John B. Harrell III disk with many useful utilities. Their Pascal source code is included, for programming types.

**NEW:** A Harrell disk we call NEW, with a later version of the ZIP compression system than we have had, plus a bunch of handy utilities and some help for Turbo Pascal 5.

**WORDS:** About 20 fonts for our screen text, including most of what we have already and about eight that we don't. It has clearer versions of those fuzzy serifed faces we see on IBM compatibles. Also on the disk: a newer version of the programmer's editor EdWin, some aids for WordPerfect 5, and other files.

**GRAF:** A lot of Harrell routines which use or improve our graphics, plus a newer version than ours of the Tiny Editor TED, and some miscellaneous tricks.

**PCM:** A group of about 20 Harrell articles about the 2000 and how to get the most out of it, mostly from PCM.

**PIXPER:** Pictures in WordPerfect are allegedly possible with this short patch (small\*\*). Version 5 of WP added an ability to place pictures from drawing programs in a WP document. WP5 also has "page preview" for miniature true pages on screen. It will take you a half hour to figure out and install the patch. Included: a program to make WP work on some Tandy printers.

**BIG:** Big Guys, reviewed Oct89. Utilities plus a big version of Today with famous events and birthdays; a DOS tutor with much useful information, fun to learn. Other items added in 11-89: DOS patches discussed in Dec89 Whimper.

**ABE:** From member SAA(braham), a great DOS file controller, two very big games, a super menu for DOS, and a word-processor for programmers. Reviewed Oct89.

**MAYO:** Started with the MAY disk and completed in October, a miscellany that goes from Origami to the ten-minute Holy Grail, which was patched to unlimited time on page 12 of the December Whimper. Re-



viewed Oct89.

G-1: The first Orphan games disk, listed and reviewed in the September 1989 Whimper. The Orphan games disks are listed and reviewed in the Sept. 1989 Whimper.

G-2: Orphan games, a big text-game Dungeon set and a flashy menu-driven group called FriendlyWare.

G-3: Trivial pursuit, lots of it. Tests your memory and experience.

G-4: More Orphan games, plus an alleged IQ testing program and a nifty black-jack tutor.

KEY: Professional Master Key, a fast, clear, strong set of Norton-like utilities that outplay Norton in its own ballpark. Shareware, reviewed in the July 1989 Whimper.

CART: An Orphan-owned 20-meg (yes, 20) Tandy2000 cartridge driver for the Iomega 20-meg 5-inch drives, which also runs all their other drives. It replaces the disk that comes with the Tandy cartridge board, and the disk that ships with Iomega drives.

03: MS-DOS 2.11.03. If you picked up an older DOS with your 2000, you should have this latest and last 2000 version. It has a newer version of Basic.

UTILS: Orphan shareware, 97 selected utilities to make the 2000 run more efficiently and give more pleasure. Listed and partly reviewed in the Feb88 issue, see pp. 10-11 for all three shareware listings (UTILS, DIRS, TOOLS).

TOOLS: Orphan shareware, 86 selected tools, gadgets and devices for special tasks and fun with the 2000. A listing of the files and some reviews are in the Feb89 issue.

123 (123E if you have the Envision 640K memory upgrade): Unprotected Lotus123 version1, Tandy 26-5300. PLEASE NOTE: Send your original program disk in a sturdy 6-faced (not 2-faced) disk box with your order, and you'll get it back unchanged with our copiable version on a separate disk. Standard pricing (see above).

FW (or FWE): Unprotected Framework 1, Tandy 26-5320. See 123 above for the way to order.

DB (or DBE): Unprotected dBaseIII, Tandy 26-5353. See 123 above for how to order.

BYTE: Creative Byting, how to write software that sells, put out by an out-of-business disk publisher. It's more about marketing and user-friendliness than about programming.

VEDIT: (New Version as of 1-14-90, demo of special 2000 version with mouse,

3.23A) A demo disk of an incredibly powerful word processor that edits programs, runs them, and points out errors. The real program is on the disk, limited only by not doing huge files. See review, October 89 issue.

JUGE DISKS: We have 46 disks of miscellaneous software. You can buy one disk or 46 or whatever. To get the 10-page listing of all the files on all the disks, see documents below.

JAN: That January grab-bag of four RCF adaptations of IBM-style programs to the 2000: PrintMaster, DirectoryMagic, NortonCommander, NortonEditor. You must send a zerox of the title page of your manual (for one of the four programs) if you order this disk. Some parts don't work; see review this issue.

### SPECIAL DISKS

"Special" disks are priced as marked, and will not count as a "first" standard disk. We pay an agreed share to an author, owner or other helper for these disks.

BIBLE-CRUNCH: The King James Bible with hypertext instant research (see review this issue). 9 disks, \$45.

GRAIL: We at last have the ATG (alleged text grail) without guru RDB's ten-minute bomb in it. It's 50% bigger in length than his crippled version, which remains on the Mayo disk. Also on this disk are two attempts at the Grail (one text, one graphic) by guru RCF. People who buy, try them on everything in sight and let Orphans know how effective they are. \$25.

MON: That multicolor Monopoly feeling pops onto the CM-1 (NOT VM-1) graphics screen, with the 2000 rolling your dice and keeping your score. Written by Orphan DP2. Reviewed very favorably in the May 1987 Whimper, pp.11-12. Includes two other Monopoly games which take different approaches to displaying the same game. \$30.

FLY: Flight Simulator 1, the golden oldie that runs on the 2000. \$10.00 with an Orphan manual by YFL that's better and shorter than the original. Great in color, OK with VM-1, graphics board required. Can't be copied.

DIRS: Orphan shareware, 28 selected ways to list and manipulate the files in any drive or directory. Listed and partly reviewed in the Feb88 Whimper. \$15.00 including a Whimper-sized manual by YFL for one colossal program that does just about anything you want in a flash.

TWIN: Not Windows itself, but the Tandy-written Windows Driver disk which

enables the 2000 to run Windows 1. Formerly their #7002611. (198K) \$10.00. See Windows explanation in Feb89 Souvenir Shop.

DIAG: Tandy 2000 Diagnostic Disk. Fixes nothing, but tells you in amazing detail about the health of the mighty 2000. \$10.00.

CACHE (small\*\*): The only program from DOS 3.2 that we haven't already got a better version of in the shareware disks. It's a Tandy special contribution that works fine on the 2000. They intended to offer it to you but they just forgot, so Orphans remembered. Detailed Orphan instructions are included. Reviewed July89. \$10.00.

ORFDISK: All the 800+ Orphans, in ASCII, DBF and mailing-label files. See centerfold for explanation. \$10.00.

[\*\*A "small" disk is a lot shorter than the 720K our disks can hold, so you may find it in (and on the label of) another disk you ordered.]

HAMP-I: The Whimper Hamper, Mar1987 through Oct1988 Whimpers on disk, useful for fast word-searches but harder to read than paper copies. \$40.00.

HAMP-II: The Second Whimper Hamper, Dec88 through Oct89. \$40.00.

HAMP-III: Available February 1, Nov89, Dec89, Jan90 farewell issue. \$15.00.

## DOCUMENTS

FLOATING FLEE: After this final Whimper, an up-to-date version of the Flee Market only. \$1.00. As offers come in, I'll be updating it every week or two. Maybe zexored, maybe lasered. No "want to buy" items. Ads will be dated, and dropped after two months.

BACK ISSUES: \$5.00 each for Mar-MayAugOctDec87FebAprJunAugOctDec 88, FebMarMayJunJulAugSepOctNovDec89, and Jan90. Some 1987 issues out of print will be zexored.

SHOPLIST: If you lose this Whimper, but remember this item, it will be an exact reprint of the Souvenir Shop and Sidewalk Salesmen of this last issue. \$3.00.

SOFTWARE LIST: The latest (and last) list of 547 software packages that run on the 2000. From the August89 Whimper. Only a few are Tandy-sold. Most have dropped out of sight, but clearance sales are a good source. 2-page spread, \$2.00.

INDEX: a tiny-type two-page index of all Whimpers but the last one (Jan90). From the December89 Whimper. \$2.00.

JUGE LIST: A 10-page zexored of all the files in our shareware pile taken off the Bob Juge BBS, all available in the standard disk

section. \$5.00.

ENVIROPATCH: This is an odd one, a document we've been stocking for years, but nobody bought it. The explanation just turned up: YFL forgot to list it! Enlarges, to your order, the "environment" where the 2000 stores permanent information which DOS needs and you write. Examples would be a PATH statement or a PROMPT statement which you load in a autoexec.bat or possibly a config.sys. 2 pages, \$2.00.

MAST: Mastering the Tandy 2000, a compressed 28-page zexored of a 100-page out-of-print book mentioned in the February issue. Reprinted with paid permission. \$16.50.

NEWBAS: List and description of extra BASIC commands in the new Basic that came with DOS 2.11.03. 24 pages compressed to 8. \$6.00.

MODS: All the mod service bulletins for correcting bugs in those earlier 2000s that have no M at the beginning of the serial number. Usable by anyone who reads and solders. 48 pages compr. to 32, \$19.00.

512: Instructions for putting 512K on a 2000 memory board. 8pp. zexored, \$3.00.

VID: 2000 video ports. 3pp., \$2.00.

VIDRAM: Video RAM. 1 page, \$1.00.

INDEX of all 21 back Whimpers. 2-page tiny-print foldout, \$2.00.

ORFLIST: the 800+ Orphans with zip, phone, and (if active) address. 4pp., \$10.00.

VIDBOX: Adapting a DRAW routine written for IBM compatibles to the 2000. RCP includes how to get a 2000's video address, any memory level (256K, 512K, etc.), \$3.00.

VM3: Modifying a Tandy VM-3 to work with the 2000, by MOR, has pictures, 4 pages zexored. \$2.00.

TP3: Making Turbo Pascal 3 run on the 2000, a three-pager supplied by JAD. \$2.00.

TP4: Using TurboPascal 4 with the 2000, from BJK. 4 pages, \$2.00.

SAVBAS: Saving a Basic color screen, 1 page, \$1.00.

SOURCE: List of some or all of the source code for the 2000 BIOS, supplied by LJS who pried it out of Tandy. See his letter in What's New at HQ Feb89. 4 pages, \$2.00.

IBMPORT: A book chapter listing and discussing IBM-style hardware ports, useful for assembly-language programmers among us trying to create a Holy Grail compatibility disk to convert IBM software for the 2000. 29 pages compressed into 16, \$12.00.

KEYBOARD: APW tells us how to wire up an extension cable that works the Northgates or possibly any keyboard on the market, with the 2000. 1 page, \$1.00.

23

Late Flash: If you guys subscribe to computer magazines (I kicked the habit), the best deals are at American Educational Services, 800-872-8787. PCWorld 18, PCMag 22, PersCptg 12, PCCptg 12. You must tell them your student/faculty status at a college. A user group offer came to HQ, with the above prices (in order) at 14, 18, 8, 10. Family Publications uses scuzzy zexored stationery, but they could be for real; I'm checking. Send list (no money) of what you would want if they're not a scam. → also Cptv Shopper 12, PC Resource 21





# Flee Market

## Sidewalk Salesmen

Myron's Second-Hand Shop, A.K.A. Comp-U-Sel: Myron is at 817-465-5736 days; answering machine nights. 1206 Green Hill Drive, Arlington, TX 76014.

Myron stocks a varying but dependable group of 2000s and their enhancements, at prices which are neither low nor high by Flee Market standards, but dirt cheap by PC standards.

Myron's hardware: 2000 with 10meg hard drive and one floppy (he has 5), \$350. 2000 double-floppy (2) \$200. CM-1 monitor (2) \$265. VM-1 (2) \$135. HD board (runs any two MFM hard drives up to 72 megs each), \$135. Graphics board (12) \$100. Graphics board with color chip set (3) \$120. Color chip set (20) \$35. (The CM-1 plugs only into a graphics board.) Main power supply (1) \$90. Hard drive's power supply (screws on over main supply) (1) \$50. DCS boards (they run Iomega cartridge drives up to 20 or 33 megabytes, a great system) (10) \$85. ViaNet boards (10) \$75. ViaNet passive hub (for 4 2000s) (1) \$40.

Myron's software: FrameWork (3) or dBaseIII (1) \$80. Omniterm2 \$75. Vianet disk and manual (6) \$60. DRGraph (1) \$40.

Myron's books: DOS and BASIC manuals (came with new 2000s) (6) \$30. Tech Reference manual (1) \$10.

Clock for those without a mouse board. You can order and solder the clock yourself (July 4, p.9). But if you don't want to solder you can buy the 2000-adapted clock chip for \$35. Orphan solder-cook Thomas Fox, 95 E. Quackenbush Ave., Dumont, NJ 07628. 201-384-0365 evenings, 6 to 9 EST.

Cables for the 2000, \$20 each. Extensions for VM-1, CM-1, keyboard, mouse and internal drives. Orphan cablemaker Tim Bates, 313-227-7344, before 9 p.m. eastern.

Function-key flipchart, ten narrow cards in a 19-ring plastic edge-binder (specify ivory/brown or white/blue). Slips into existing slots above the F-keys to label key functions for your favorite programs. \$5.00. Orphan chartmaker Jack Doerr, 22407 Bayview Drive, St. Clair Shores, MI 48081. Indispensable. Also: brand-new Windows 1, the only Windows that runs on the 2000, \$50. Requires graphics board (color optional) and the Tandy adapter disk for Windows/2000 (see Souvenir Shop).

PLEASE NOTE: All original parts and papers are included unless otherwise noted (mail-in cards and original cartons will be missing). Prices include shipping to anywhere in 48-state continental USA. Prices and pieces may be negotiable; we don't print hints of that sort.

The Flee Market will continue to be updated with offers to sell, after this last Whimper. You can find later offers in the Floating Flee (see Souvenir Shop).

BEFORE YOU CALL A SELLER: Find out the time zone you're calling, so you won't hit some poor westerner at 6 a.m. or easterner at 1 a.m.. IS THAT ASKING TOO MUCH?

256K memory board, \$150. 405-843-0510, ask for Rusty. 2000HD w/10meg drive, 512K RAM, CM-1, some software, may have mouse. \$550 for all. 916-662-9464, ask for Ron.

# 24

Double-floppy 2000, VM-1, manuals, 2000 Tech and Prog Reference Manuals. Ask for Gery at 301-599-9595 days, 301-423-8167 eves.

Double-floppy 2000 with 10meg HD, 256K RAMboard, mouse/clock board, graphics w/color board, CM-1, mouse, \$350. Call Art at 415-793-6990.

Double floppy with VM-1, \$300. dBII, Lotus, MMate \$35 each; FW and Symphony \$50 each; DRDraw or MAIGenLed \$20. Larry, 313-534-6776.

Double floppy (? he calls it a 2-DD) with 512K, VM-1, HD board, color graphics, \$375. CADpad, Tandy's GT2000, \$80. Ask for Al at 612-755-3457.

Double-floppy \$175, including about 10 books or software packages. Extension for VM-1 and keyboard (from floorstand) \$11. "Smart speaker" (you tell me) \$123. VersaCAD Entry plus

GT-2000 tablet, \$263. Service manual for GT-2000, \$25. Bill, 803-632-3280.

Double-floppy \$185, clock/mouse board \$45, DigiMouse \$30, VM1 \$75, OpenAccess \$50, PFS File and Report \$35 each, Tech Manual probably \$10. Ask for Robert, 402-393-6716 evenings.

Double-floppy with CM-1, 10-meg cartridge system, 512K RAM, mouse board and some software: \$800. Single-floppy HD (presumably 10meg drive) with VM-1 and some software: \$450. 414-784-8790, ask for Jim.

Double-floppy \$185 w/manuals; clock/mouse boards (2) \$40 each; VM-1 \$85; tech manual \$10, OpenAccess \$50, PFSFile&Report \$35 for both. 402-393-6716, ask for Bob.

Double-floppy with HD board, 10meg half-height HD, color graphics board, 512K RAM, clock/mouse board, extra power supply, \$450. FrameWork \$25, floorstand \$25. 301-206-2102 at 7 to 10pm EST, ask for Jeff.

Mouse \$70; dBII dBIII Word-1 or Deskmate \$30 each. 301-745-3858, ask for Paul. Tell him he should be selling the mouse for \$40.

Double-floppy with both 3-ring manuals, all mods, and drive-A trouble \$100. VM-1 \$75. Graphics board w/o color \$50; memory board 256K \$75; clock/mouse board \$30; or all the above for \$280. Tech & Prog Ref books \$20 for both; DeskMate1 \$25, FrameWork \$45. 315-673-3069, ask for David.

3-drive double-floppy with 10meg HD, HD board, mods \$450. Double-floppy w/mods \$200. Memory board (w/256K) \$100, graphics board w/color chips \$120, color chipset \$25, clock/mouse board \$30, VM-1 \$100. Software @ \$75 each, Symphony dBIII M.Word SuperCalcIII; @ \$40 each, MAIGenLed PFSFile PFSReport PFSWrite MLFormat. 512-575-4879, ask for Pat (male).