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Deadline:

All advertising and other material for publication in North Texas PC NEWS must be received by the NEWS staff by the 10th of the month prior to publication. See deadline information below.

Circulation:

North Texas PC NEWS circulation is 1936 this month.

Member distribution is 1574; remaining copies are distributed to PC user groups around the country, and to advertisers, prospective members and others with common interests.

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DEADLINE
Copy deadline for April North Texas PC NEWS: Wednesday, April 10th

Meeting Dates:

April Meeting - 2nd Sat. (13th)
May Meeting - 4th Sat. (25th)
June Meeting - 3rd Sat. (15th)
(tentative)

Join us at the business meeting —11 am Saturday, April 13th.

Submitting Articles for Publication in North Texas PC NEWS

1. Article Style. Type all copy flush left without justification. This includes headings, bylines, and the first line of each paragraph. Place a credit byline (author's name) between the title and first paragraph. Leave a blank line between paragraphs.

2. Media. All copy exceeding 10 lines should be submitted via the NTPCUG BBS or on floppy diskette(s) - (5.25" or 3.5" DOS formatted). If you want the disk returned please include a self-addressed return-postage-paid mailer. If you submit your article in hardcopy and expect us to transcribe it, bear in mind that we don't type so well. Most times, hardcopy-only-articles get filed in the Void.

3. File Formats. ASCII text files are preferred. Use .TXT extension for ASCII files. If formatting is crucial, Microsoft WORD and WordPerfect files will be accepted. Other word processor file formats may be acceptable but only if the article is accompanied by hardcopy and an ASCII file version of the article. Word processor files create a lot of extraneous work for the editors. If the article can be ASCII-fied, please do so.

3. Submitting Articles. You may use one of three methods.

a) NTPCUG BBS (Preferred). Log-on to the BBS and select (U)pload from the main menu. Your default file transfer protocol will be displayed. If you want to change your default protocol, use the (P)rofile option. Once you have set the file transfer protocol, select the (A)rticle option from the upload menu. You will be prompted for the filename to upload. Enter the filename (don't use drive or path name). The BBS will prompt you to begin the file transfer. (Refer to your communications software manual for instructions on transferring files.) After the file transfer has been completed, you will be prompted to, "press any key to continue..." You will then be prompted for a one-line description of the file. Enter the description. To exit the Article Upload Menu press ENTER until you get back to the Main Menu. (OPTIONAL - Send a BBS mail message to Douglas McQuaid regarding your submitted article.)

b) Snail Mail (a.k.a. U.S. Postal Service). Put the article on a floppy diskette and mail it to: 10429 N. MacArthur, #360, Irving, TX 75063

c) SneakerNet. Track down one of the editors at the monthly meeting and give them a diskette with the article on it.

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Program for April — Timothy Carmichael

9:00 AM - 10:00 AM **Borland Corporation**

Karen Findlay, Systems Engineer

ObjectVision for Windows Applications

ObjectVision is a unique windows software product that combines popular features from spreadsheets, databases, forms products and drawing programs to let you create fully functional window applications quickly - without knowing anything about programming. Sophisticated applications that estimate costs, generate quotes, automate questionaires, troubleshoot problems and answer "what if" scenarios are created with the same ease as simple data-entry applications. This live demonstration will be followed by a drawing for free products. *

10:00 AM - 11:00 AM **Ashton-Tate Corporation**

Jim Ott, Senior Sales Engineer and
Ann Maxwell, Sales Representative

Applause II — "Knockout Business Graphics That Anyone Can Knock Out - On Anything"

Applause II version 1.5 is a business graphics program that includes charting, drawing and presentation capabilities all in one. It utilizes a graphic user interface that makes Applause II a truly easy, flexible and enjoyable product to use. This version now includes a spell checker, LAN fuctionality, Screenshow Runtime, and much more. There will be a drawing for free products after the demonstration. *

11:00 AM - 11:30 AM **NTPCUG Business Meeting**

1:00 PM - 2:00 PM **Intel Corporation, PC Enhancement Division**

Dave R. Taylor, Above Board Product Manager

PC Memory Issues, Now and Future

Come learn all about memory for your PC. The types of memory used, standards and requirements, flash technology and more will be discussed by an expert. He will show you how existing memory can be best utilized and how additional memory can optimize software and hardware productivity.

* Tickets for each drawing will be given out from 10 minutes before until 15 minutes after the start-time of the meeting to attending NTPCUG members who show proof of membership.

PREZ SEZ

May Meeting is the FOURTH Saturday.

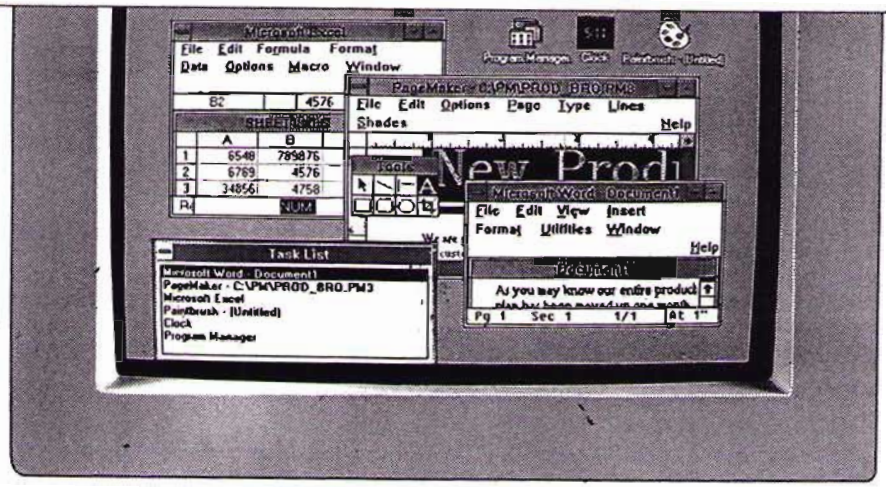
Warning, the May meeting will be on the fourth Saturday of the month. Even though we negotiate our meeting dates over a year in advance with INFOMART, it is not always possible to get the second Saturday of each month. May will be one of those months.

Membership report.

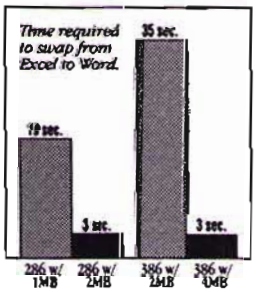
Since I am also the acting Membership Director, I thought I throw in a membership report. As of 3/1/91, our official membership was 1,579. As we grow in numbers, it takes even more people to run the North Texas PC Users Group. Several of us are holding down 2 or 3 volunteer positions.

For example, I have been the person who empties the post office box and distributes the mail for the past eight years. We now receive enough mail that I bring several sacks full to each meeting. That's after mailing the priority stuff to the other officers as it comes in during the month. It used to fit in my brief case along with everything else that I brought to the meeting.

There are lots of volunteer openings in the group. Just stop by the front desk or the Disk of the Month table and check them out. ►



Open more Windows with an Above™ Board.



Above Board memory means faster access to more Windows applications.

The wraps have finally come off. Now that Windows' 3.0 is out, you can switch to a graphical PC environment and handle multitasking applications with ease. Right?

Actually, as you add Window's applications, memory requirements increase. For example, Microsoft' recommends adding at least 2MB to run Word for Windows'—at least 4MB if you're on a network or use large applications like Excel'. And, without additional memory, you'll waste time waiting to access applications, fonts, and graphics.

The solution? An Intel® Above™ Board—voted number one in *PC Week's* Corporate Satisfaction Poll two years in a row. Above Boards provide up to 14MB† of memory and are guaranteed compatible with Windows and hundreds of other DOS packages.

MICROSOFT WINDOWS

To find out how Above Boards can open more Windows for you, call Intel today at (800) 538-3373. To have information faxed directly to you, call (800) 525-3019 and request Document #9959.

Because once you get an Above Board, using Windows is an open and shut case.

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†With 8MB Piggyback memory option. Timing performance tests conducted using an IBM PS/2 Model 80 and Above Board 2 Plus running Windows 3.0 in standard mode, and an IBM PS/2 Model 70 and Above Board MCS running Windows 3.0 in enhanced mode. © 1990 Intel Corporation. Above and 386 are Trademarks of Intel Corporation. *Windows, Word for Windows and Excel are trademarks of Microsoft Corp.

Special Interest Groups

Did you know that all it takes to start a Special Interest Group is to get a Leader, an Assistant Leader, and at least 10 people who are interested in the SIG. If you can do that, Andy Oliver, SIG Coordinator, will schedule a room for your group and give you six months to see if it takes off.

The Computer Automated Design (CAD) Special Interest Group that meets at 10:00 a.m. was started only a couple of months ago. Bill Sephton, the CAD SIG leader reports that it is well attended with more people joining the SIG each month.

Since the NTPCUG has been in existence, many SIGs have come and gone. Some have come back to life as many as three times. Others, specifically those centered on one product, disappear if the product goes away. I guess there's not much hope for me in finding 10 people in IBM's Easywriter software.

Computers can be Hazardous to your health

I came across a computer at a company in Dallas this last month that had 60 volts of alternating current on the chassis and monitor. Because it was connected to other computers in the room with a coaxial network cable, it caused those computers to have a 40 volt current on their chassis. The problem was that the three pronged power cord had been plugged into a two pronged extension cord. Fortunately, the current was low enough so that nobody was seriously hurt.

If you get more than a static electricity shock from your computer, check out the problem immediately. It may be something simple like an ungrounded power cord. Or it may be the power supply in the computer or monitor is going bad. In any case, stray electricity may cause you serious injury or death.

Jim Holsington

Adobe *PostScript* Cartridge Trio Gives H-P II Versatility, Speed

by Reagan Andrews

PC users who want PostScript output *and speed* from their Hewlett-Packard LaserJet II, may find the best answer comes from Adobe. Described by Adobe as "the Adobe cartridge products," the Adobe solution is a system of hardware — the cartridge — and several software packages.

Adobe's cartridge comes with the usual 35 type faces; normal (or roman), italic, bold and bold italic in *Courier, Bookman, New Century Schoolbook, Avant Garde, Palatino, Helvetica, Helvetica Narrow* and *Times Roman*, and single styles in Zapf *Chancery*, ITC Zapf *Dingbats* and a Symbol set. Supplemental Adobe font cartridges are also available.

The cartridge needs a H-P LaserJet II, and at least 1.5M of printer memory to run. More memory is better and speeds PostScript printing as well as allowing additional Adobe downloadable printer fonts.

End result is versatility and speed

Adobe sees this as a "system" and provides software that will build screen fonts and .PFM (printer font metrics) files for both Ventura (GEM version) and Windows.

Possibly the most impressive software part of the suite is the LaserTools *Printer Control Panel*. A non-Adobe product, this little gem acts (if the user wishes) as a TSR sitting in memory and intercepting print output. If the output is PostScript, the LaserJet is set to PostScript mode and printed accordingly. PCL output is printed in native Hewlett-Packard mode. Nifty.

Adobe's installation is either very easy — cartridge alone — or a little taxing to the average user if all Adobe's software is included.

The Adobe cartridge itself is pretty straight forward — plug it into the H-P's left slot and run. (The Hewlett-Packard LaserJet II defaults to the PostScript mode when the cartridge is installed.) Without any of the Adobe software loaded, both Windows and DOS production software packages that support PostScript printers printed easily and well.

Installing the Adobe (and LaserTools) software is a trifle more complicated. The user will need to know what application packages will be used and where they are located, and what printer ports are used. However, the software does quite a bit, from generating screen fonts for Windows and Ventura to controlling the printer mode, and is worth the extra trouble.

The Adobe software will also build bitmapped fonts for non-PostScript printers that can be downloaded to most laser and dot-matrix printers. I used this

facility with a Panasonic 1091i and the Toshiba P351 dot-matrix printers with good, if very slow, results which would be suitable for test pages. I'm not sure why anyone would want to do test pages this slowly if a Adobe cartridge-equipped LaserJet II were available, though.

Speed is Adobe's trump card

With a LaserJet II, this beast is fast, faster than the other cartridges I've used by a considerable degree, and seems just as fast as the LaserJet II does alone in PCL mode with pages composed primarily of type text.

Dropping in a few graphics, particularly .PCX files, tends to drop speed a lot. But then, you see the same speed degredation with .PCX files printed through most software in PCL mode. However, the Adobe cartridge opens the door to PostScript .EPS graphics printing and at an accuracy and quality level typically better than the software PostScript interpreters.

Quality of the output on the LaserJet was good — better than most lower-end PostScript printers — but not quite as good as equivalent Bitstream fonts printed in native PCL. Much of the improvement is in the H-P's Canon printer engine which tends to produce sharper type than the competition.

The Adobe cartidge isn't supposed to work with the LaserJet IIP or III and I didn't try it. Moved over to the IIP with the bitmapped fonts though, and things improved somewhat, but that's typical anyhow. The IIP just seems to produce cleaner, sharper output than the II under almost any conditions.

Toner control critical

Downer(s). Adobe doesn't tell you this, but you'll have to run some tests on the printer's toner control to arrive at the best setting for your LaserJet. This is also true of the Pacific Page cartridge so Adobe can't be faulted here. You may also have to adjust the toner settings for individual typefaces as well.

Adobe's *Bookman* face seems to be somewhat darker than optimal while the *Palatino* is a little too light in medium sizes (11 -12 pts) unless the toner is adjusted accordingly. (Bitstream's *Bookman* has problems as well, so it may be a matter of my taste.) Also, Adobe's *Helvetica* faces have (as expected) a slightly different feel than the corresponding Bitstream *Swiss* faces. In this area, Model III owners will have an edge with the built-in Agfa Compugraphics *Univers* face that appears somewhat more graceful that either of the above faces.

Downloadable fonts, such as Adobe's *Franklyn Gothic* and *Gaillard*, are handled nicely and show why many users have shifted away from the "traditional" 35 PostScript faces included with most PostScript printers, cartridges and software interpreters. Do get tired of *Times-Roman* (*Dutch*), *Helvetica* (*Swiss*) and *Palatino* after a while.

Software seems to handle the LaserJet II with the Adobe cartridge just fine. *Word 5.0*, *Arts & Letters 3.0*, *CorelDRAW 2.0* and Ventura *Publisher 2.0* (GEM version) had no difficulty here after setup properly. *Word for Windows 1.1* didn't fare quite so well, but it didn't do any better with the Pacific Page cartridge in the IIP until after much, much tinkering with Windows' printer setup.

Control Panel really works

I was able to make the LaserTools *Printer Control Panel* (a 5K TSR) stumble without too much difficulty, but this has been true with several other TSR's in my current setup, and is probably a result of my TSR management rather than an indictment of the LaserTools product. Even in well-managed configurations, it would occasionally "see" PostScript output as PCL which resulted in many, many pages of PCL-produced ASCII text that should have been PostScript.

At the time I reviewed the Adobe cartridge, it listed at $495, but is locally discounted ($399) as were the Pacific Page and several other cartridges for the LaserJet II. Mail order may provide even greater savings over list.

I felt that the Adobe output quality and the added versatility via Adobe's software more than offset its higher price. In a multiuser shop where both PostScript and PCL print jobs may be sent to a single printer, the switching capability combined with its superior speed may tip the scales even further in favor of the Adobe cartridge.

Reagan

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Look & Link

by Judith A. Williams

Look & Link by Personics is an add-in for Lotus 1-2-3 Release 2, 2.01, and 2.2 which lets you:

LOOK: Display 2 spreadsheets at the same time.
and
LINK: Consolidate multiple spreadsheets.

So far, I've done a lot more Looking than Linking.

Patch those Rags:

Look & Link is billed as "The Cure for 1-2-3 Release 3 Envy." Basically, it's a patch for users who are stuck with Lotus 1-2-3 Release 2.*. (Look & Link Version 1.1 even works with Lotus 1-2-3 Version 2.2.) If you're considering getting rid of your "rags" and buying Lotus 1-2-3 Release 3.*, I recommend you do some comparison shopping first; you'll probably want to get Borland's Quattro Pro instead. (Microsoft Excel is also worth a look, but for Lotus users conversion to Excel is more difficult than conversion to Quattro Pro.)

If you are fortunate enough to have Borland's Quattro Pro, you don't need to fool with these pesky patches. I'm multi- patched, because I also use Allways (by Funk Software) to improve the appearance of the spreadsheet I publish. These patches hog memory and are cumbersome to use, but they do offer enhanced functionality for those users who need to do just a few extra things with their software.

Installing Look & Link:

Installation of Look & Link is a snap. I was able to install this program onto my hard drive without a hitch, just by following the directions. Normally I despise installing software because it always seems to require extra knowledge...some sixth sense for knowing when the instructions are wrong, or when the instructions don't apply to you. Installing Look & Link was a pleasant exception. Thank you, Personics.

Hogs, or Too Many Add-Ins Feeding at the Same Trough:

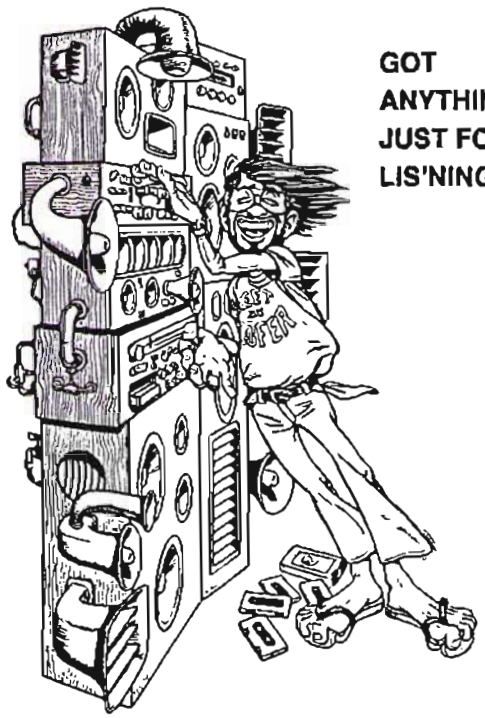
I decided to have both the Look and the Link modules attach automatically every time I load 1-2-3. (This is probably a legacy of the 1980s' "I want it all and I want it now" syndrome.) Combined with Allways, which also attaches automatically, this requires more memory than I have available. I have to detach Link in order to use Allways. I usually detach Look also, to allow ample memory for Allways. If I try to work in Allways with Look or Link still attached, I run out of memory when I try to print from Allways, and sometimes I cannot load as many soft fonts as I want. (I work from my IBM PS/2 Model 55 SX hard drive while still connected to a LAN. If you're on a standalone, your experience may be a little different.)

An alternative solution is to reconfigure the add-ins so that only one of them attaches automatically (more in line with the "Live with Less" 1990s). Then attaching or detaching an add-in is a simple matter of hitting ALT-F10 to invoke the add-in menu, which is easy to follow. Once an add-in is attached, it can be invoked with a simple ALT-F7, -F8, or -F9. The user gets to assign the function keys.

Looking:

Looking is easy: The Looking part of Look & Link is handy and easy to use. It works just the way you expect it to. It follows Lotus type conventions such as using the period to "anchor" a corner when you are changing the size of the "window" you look through. I'm one of those users who believes that well-designed software should be almost "manual free." If you need to keep looking in the manual to use a simple product like a spreadsheet add-on, it's the software design that's stupid, not the user. So it was gratifying to find that I could navigate the Look menus without resorting to ancient tree-based information storage devices (books).

Excellent Manual (really!): If you do need to use the manual, you're in for a treat. It is a model of clear presentation. It gives just the right amount of information, presented from the user's point of view. ►



(After all, I'm a user.) The illustrations of Lotus screens are helpful, and are much more useful than screen views I've seen in other manuals that are much glossier and more expensive. The manual achieves a nice balance between overview type information and specific keystroke instructions.

When do I use Look? Well, I often want to "view" something in another file, to pull a number, to preview a file before loading it, to cut-and-paste, or to remind myself how I set up a similar problem. With Look, I don't have to exit my current file to do this. And it's so much easier to snoop around in my 1-2-3 files than it is to get up and perform "file cabinet archeology" and try to find that one interesting table buried in Attachment 642 of last year's 27th Profit Improvement Initiative.

Hint: If you Look at a file often, you'll want to put that file on your hard drive, because it takes quite awhile to Look at something on a floppy disk. The actual speed is hardware dependent, but in any case it's much faster to Look at a file if you don't have to pull it off a floppy.

Think about it

Do you rxalizx how important you arx to this organization? You arx a kxy pxrson in our grxat Usxr Group. (Plxasx xxcusx thx typing. Thx typxwritxr works quitx wxll xxcxpt for just onx kxy. It is trux that thxrx arx 46 kxys that function wxll, but just one kxy not working makxs thx diffxrxncx.) You say to yoursxlf, "Wxll, I am only onx pxrson; I won't makx or brxak thx group." But you sxx what a diffxrxnex it makxs whxn only onx kxy doxs not work? An organization to bx xffxctivx nxxds thx xxtra activx participation of xvxryonx. So, thx nxxt timx you think you arx only onx pxrson and that your xfforts arx not important, rxmxmbxr this typxwritxr and say to yoursxlf, "I am a kxy pxrson in this usxr group and am nxxdxd vxry much."

—Adapted from a church bulletin

Software Crossover

One phenomenon which merits further study (preferably not funded by my tax money) is software crossover, the extent to which a user's expectations for Product B are shaped by experience with Product A. In using Look, I realized that what I really wanted to do was switch back and forth between active work areas, the way I do with Document 1 and Document 2 in WordPerfect. For a confirmed spreadsheet user who continued using Lotus 1-2-3 as a crude word processor until forced to adopt WordPerfect by job requirements, it came as a shock to realize that there was something in the word processing world which I preferred over the spreadsheet solution.

So I have configured Look to resemble WordPerfect's document areas, by enlarging the window to fill the whole screen, and using the Swap command to Swap ("Switch" in WordPerfect parlance) between current worksheets.

Linking:

Dependency Trees: The manual is helpful. To Link or consolidate files (combine monthly spreadsheet into one quarterly spreadsheet, for example), you must first define the file hierarchy by defining dependency trees. Spend a few minutes reading over this section in the manual. Unlike many inferior manuals, this one provides an intelligent overview and insightful examples, and is much more helpful than the usual list of menu labels.

The manual also gives pointers (highlighted in shaded boxes) on managing memory and speed during linking operations. It shouldn't come as a surprise that memory management is critical in linking large files. Recalculation and consolidation seem slow, but this is a trade-off: speed is expensive.

Link offers four types of @ functions: statistical, worksheet, retrieval, and group functions. These add considerable power, flexibility, and complexity to the product.

I Like Look & Link.

Overall, this is a user-friendly product (especially the Look module) that offers greater functionality at a reasonable price ($99.95 list). If you need to consolidate worksheets or swap files and don't want to buy a new spreadsheet product, this may be just the fix for you.

Look & Link is a product of Personics (1-800-445-3311), 63 Great Road, Maynard, MA 01754

Judith

Judith A. Williams is a member of the North Texas PC Users Group who uses computers as tools at work and at home.

The Variety Store

by Reagan Andrews, Ph.D.

(A personal view of new or unusual hardware, software, and applications for IBM small computers and compatibles.)

Windows, Windows, DOS 5.0, DR-DOS 5.0 & OS/2 While Big Blue goes Red, or Red dresses in Blue Lotus and Microsoft go on a Mail buying spree!

Windows, Windows — just can't get away from *Windows 3.0* — pro or con this month. Struggles over Windows - DOS vs. OS/2 filled media over the last month or so. And, media accounts really make IBM and Microsoft sound like very small children fighting over a toy.

Real losers will probably be the users. IBM's decision to endorse "Big Red" — Novell's *Netware* — as the standard for OS/2 networking sure didn't help MIS managers and other large users with their decision making much. Entry level costs of adopting the Novell product have kept lots of smaller users out, including me, but the red boxes have always seemed attractive. Hear that Novell for IBM will be in Blue boxes, now.

Meanwhile, media sources claim *DOS 5.0's* shipping date has slipped, again, into sometime this summer. Question: is this because of more thorough than typical debugging by Microsoft, or because a number of the media rumors about memory clashes with many other products, including *Windows 3.0*, are true ...? Understand via *InfoWorld, PC Week* and *Wall Street Journal* articles that *Windows 3.1* will be delayed as well as shipped minus some of the "leaked" features.

DRI dark horse in OS Wars

Same media report DRI (Digital Research Incorporated) isn't standing still in the DOS department with announced plans to release a full multitasking, multiuser version of their successful *DR-DOS 5.0* shortly. DRI (almost DOS publisher) was home of CP/M, CP/M-86, MP/M and Concurrent CP/M-86 in the past as well as a very fast, simple GUI (*GEM*) which boosted *Ventura Publisher* into prominence.

Some of these operating systems may be remembered fondly. Others, with epithets on the part of unlucky owners. (Did DRI *really* decide not to support hard disks in 1983?)

Threats of unleashed attorneys Rebound with AT&T, AMD & Apple

Guess who wants to brandish ravening attorneys and enter into a new round of popular, unpopular wars against the old computer intelligentsia, i.e., UNIX hackers? AT&T stepped bravely into the fray over *X Windows* waving a 1985 Bell Laboratories patent.

Object of all this? MIT. Sounds like all the warm fuzzies used to describe the X Consortium may have been misplaced. The issues are far from real clear and AT&T may not be the heavy here. But, do they really want all that surplus IQ at MIT turned toward law and patent issues and against Bell Labs?

Apple vs. Microsoft — back in the news

Maybe this really should have gone in the *Windows* section above. The on again - off again (media coverage, only) struggle between Apple and Microsoft over the Windows GUI broke out again in March with news that Apple had won one round in the continuing fight.

Microsoft lost "several key defense arguments" in the prolonged fight over who has the right to claim all rights to GUI's on PC's. According to *Infoworld* and *Wall Street Journal* articles in March, Apple won on several points that they say significantly weakened the Microsoft defense of its use of certain GUI features in *Windows* that Apple claims are too close to similar aspects of the Macintosh GUI.

There are lots of rounds left in this fight according to legal observers although the present ruling(s) do appear to shift odds in Apple's favor.

AMD vs. Intel Redux

Intel loses and AMD wins in "386" copyright struggle in March. According to the *Wall* ►

Street Journal, March 4, 1991, " A federal judge dealt Intel Corp. a small defeat in its continuing legal battles with AMD, Inc. ..."

Issue at stake was Intel's claim(s) that "386" was trademarked by Intel, and AMD had no right to use of this combination of numbers in describing its new CPU chip, a clone of the Intel 80386, more or less.

Chip Wars Redux!
AMD, Intel & Motorola

AMD a winner this month. Legal decision above, announcement of a 40 MHz version of their Am386DX CPU chip and media report a 50 MHz unit is in the works. No surprize. AMD knows how to make really fast chips once unleashed.

Coming down the road, according to media articles in February and March, are high-speed versions of the SX chip, the Am386SX and Am386SXL, with 16, 20 and 25 MHz clock rates. Prices on the (now) competing chips are expected to be somewhat below Intel's current pricing.

Intel fights back

Watch the Intel ads. Intel's 486 is coming in lots of models now that AMD apparently will be producing Am386's, including several CPU chips described as "stripped-down" in a manner similar to the 386DX vs. 386SX chips. (No, there probably won't be a 16-bit version.)

Just last year Intel was praising the 486 because it didn't need a math coprocessor. Now, they'll be producing a 486 with the coprocessor section "disabled" and rumors indicate another 486 with onboard caching disabled. Prices are estimated at about current 386DX levels.

Performance will remain in the 20 MIPS range according to Intel spokespeople who remind that a "stripped" 486 runs 2 -3 times faster than equivalent clock rate 386 CPU's.

Motorola drags up the rear

Big loser, so far, in the chip wars is Motorola. Why? Motorola had the workstation market pretty much in their pocket going into the mid 1980's.

For a really good look inside Motorola, and why Intel, Sun and Mips have taken away so much of the market Motorola once owned, get a copy of the March 4, 1991, issue of the *Wall Street Journal*. One answer appears to be the bitter in-fighting at Motorola between RISC and 68000 advocates.

Apple may be the biggest loser since planned upgrades to the Macintosh line have been significantly delayed by tardiness of both the 88000 (RISC) and 68040 (CISC) CPU chips to market. Hewlett-Packard is another loser to Motorola delays.

A loss that affects all of us — *Computer Currents* prints last issue

We'll miss *Computer Currents*. Long a friend at INFOMART over breakfast on Meeting days, the free, PC-oriented magazine printed its last issue in March according to the *Dallas Morning News*.

Susan Plonka, Publisher of *Computer Currents*, decided to end production of the magazine with the March issue. She reported that critical staff losses and declining monthly revenues were responsible for her decision to end production.

Some of the *Computer Currents* columns and writers will be missed sorely. Some won't.

Anything you can buy, I can buy better — February Acquisitions by Lotus & MS

The big gobbleth up the small in February and March. Lotus saw a need for *cc:Mail* while Microsoft decided to counter with Consumers Software, Inc., purchase attempt. Meanwhile cc:Mail/Lotus ingests Powercore's *LAN Scheduler*.

Rumours abound that Lotus' hunger isn't yet sated, and the Cambridge firm will go after a some local (D/FW) companies in their quest. Tales from the underground indicate that Lotus is very, very interested in Contact Software International, makers of *ACT!*, Dild Publishing Corp., Arlington, *Lettermaster*, and, Remote Control International, Carlsbad, CA, *Telemagic*.

Notes — would appear to be beneficiary of Lotus' purchase of *cc:Mail* and a substantial foothold in the E-Mail, LAN-based market. *cc:Mail* is one of the leaders in this game, see later demo story. Microsoft's pursuit of Consumers Software (*Network Courier*) follows similar lines since they are publishers of the second leading E-Mail package currently.

Goldstar gains stake in Zenith

Buying almost a 5% share of Zenith Electronics Corp., Korea's Lucky-Goldstar Group hopes to buy into American technology to compete with far larger Japanese companies. Sound familiar?

Zenith has the technology — flat screen television and monitors — but Goldstar has the manufacturing expertise. The Korean firm hopes the purchase will enable them to compete with Sony and Matsushita while holding off the lower cost, Southeast Asian products. ►

cc:Mail demo very impressive Illustrates Lotus interests

Got a demonstration copy of *cc:Mail* from Jim Hoisington in early March. Ran well as demo and showed lots of marketing know-how. Most interesting aspect was user interface.

May make this available to DOM (if Lotus allows) since it does handle E-Mail better than most other packages I've played with to date. Closest competitor is, strangely enough, MailMAN, available free from your friends, the Feds, if you're running *MUMPS* on a mini or LAN.

Flexibility in interface is a hallmark of *cc:Mail* which allows almost any permutation of individual and mail-group conceivable in day-to-day operation(s) while organizing users and servers into coherent clusters.

R:base to play the field With third-party applications

Microrim Inc. announced that their *R:base 3.1a* update will allow access to third-party applications with DAI (Dynamic Application Integration) reaching out to Lotus 1-2-3, *Word*, *dBASE* and others.

Described as a dynamic interlinking between products, DAI will facilitate data exchange, including updating, between *R:base* and other major applications programs. It's a part of Microrim's strategy to expand the interoperability between R:base and the outside world according to company officials.

According the Microrim, this is the first in regular, planned upgrades to *R:base* under the Upgrade Express — a subscription program entitling members to receive *R:base* upgrades on a regular basis.

V.32bis announced for Intel 9600EX modems in February

Intel announced in February that its 9600EX series of modems will incorporate V.32bis support and allow modem line speeds of up to 14,400 bps.

According to Intel, adoption of the V32.bis standard by the CCITT (International Consultative Committee on Telephone and Telegraph) is slated for late February or early April. New Intel 9600EX modems will support the new standard and owners of "older" 9600EX modems will be able to upgrade existing equipment. Price of upgrades was not stated by Intel at time of the V.32bis announcement.

Back to *Windows* — even more Wordprocessors come on line

Lines between high-powered wordprocessors and page-layout programs really blur in the *Windows* world. Describe, Inc., announced their OS/2 wordprocessor has been ported over to *Windows* while Aldus announced the long-awaited *Pagemaker 4.0* was shipping in late February.

Describe should be a real contender. Saw the OS/2 version and a Windows version at COMDEX/Fall '90 and was very impressed. Seemed to handle text and graphics equally well (excellently), and had one of the more intuitive approaches to the Windows interface. Price was announced at $595.

Almost simultaneously, Aldus' *Pagemaker 4.0* was released, featuring long-document handling and DDE as well as general improvements to the program. Priced at $795, the new Aldus product includes a copy of *Adobe Type Manager* and can be upgraded from previous versions for $150.

Forest & Trees Windows Demo Pulls all that data together

This last item was a lot of fun. Received a demo disk of *Forest & Trees for Windows* in early March. I'll make it available to the DOM folks, and quote the insert that came with the disk.

"It calculates, but it's not a spreadsheet.

It stores information and creates reports, but it's not a database."

It's an executive information system, but it's more flexible and much less expensive than traditional executive information systems. (Their claim, I don't know since no price was quoted in the handout.) Saw this running at COMDEX and was fascinated by the ease with which reports and "warning triggers" could be setup.

If you have to make decisions based on spreadsheet, database, accounting and other information routinely stored on PC's, this may provide an answer for your need to organize it all. This column simply doesn't have space to fully describe the program(s).

Correction

The date format in last month's @NOW article should have appeared as follows:

```
@CHOOSE(@VALUE(@MONTH(@NOW)),"","January",
"February","March","April","May","June",
"July","August","September","October",
"November","December")&" "&@STRING(@DAY
(@NOW),0)&", 19"&@STRING(@YEAR(@NOW),0)
```

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Granted, with Microsoft's BASIC Professional Development System, rocket scientists can work wonders every day of the week.

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Naturally, this BASIC also turns out code at record speed—150,000 lines per minute. Not surprisingly, *PC Magazine* called it "... perhaps one of the greatest software programs ever written" and gave it their Editor's Choice Award.

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Selected SIG Happenings

News and meeting notes of Special Interest Groups

(Material for this column should be sent to Andy Oliver, SIG Coordination, before the 10th day of each month).

Advanced Programmers SIG

After a long absence, Kent Cobb reappeared with rumors of a new object-oriented operating system which is to appear on the market later this year. According to Kent, this system is so intuitive that you only have to think about what you want it to do and it does it. The only problem is that is displays all its data in icons which are too small to see. Join us next month to see who can come up with the best industry rumor.

Jim Hoisington

Assembler SIG

Our March meeting featured a discussion of disassemblers - products, techniques, ethics, etc. Our April and May meetings are tentatively scheduled to feature discussions of protected-mode programming and 80x86 optimization techniques, respectively. The exact order depends on the availability of a volunteer for the protected mode presentation. Check the bulletin board for the final schedule.

Frank Cavallito

C Programming SIG

Well, here it is the 10th of March - April Newsletter deadline. I did not plan any specific topic of discussion for the March meeting. Instead, we used the "stream of consciousness" approach where any question having to do with C was covered. I did, however, bring all of my notes from the previous month's meetings so they could be reviewed, if those topics came up.

In April Sid Nolte is going make a presentation concerning "Programming Style in C". I am sure you will not want to miss this one.

Last month a question arose about the advertising of my C pointers series. It seems the word did not get out that I was doing such a series. Well, I am planning a new series to begin in May and continue throughout the summer. The topic this time is "File I/O in C". So I want everyone to get the word out this time so that more people may benefit. Thanks to everyone who attends, and I hope to see you all at the meeting.

Stan Milam

C++ SIG

Tom and I got a bit lazy in March, and didn't start the project as planned. (This seems to be turning into one of those running jokes that gets repeated every month. I think we've planned to start the project every month since December.) Instead we devoted the hour to questions and answers, a review of the things we've talked about the past several months, and a discussion of Borland's newest version of C++.

Since the project plans have been pushed back one more month, we'll try again in April. If there is any source code available for you to download, we will announce it in the Meetings conference of the BBS.

Kent Cobb & Tom Cook

DOS SIG

Hoisington's beanie didn't blow anyone out of the room at the March DOS SIG Meeting, so I guess we're OK for April. Hope so.

Where to go? All we see in the media is Microsoft vs. IBM, DOS & Windows x.x vs. OS/2 x.x — complete with glowing descriptions from the respective PR departments about why their product is the only way a user should go, and the other folks' product is something you wouldn't want to hit barefoot in a barnyard.

Almost makes CP/M-86 seem rational.

Neither Jim nor Reagan will go that far, but they will try to make sense out of the confusion for DOS users in April. We'll keep looking at how users can make their present operating systems (DOS) perform as efficiently and effectively as possible while minimizing the unpleasant "gotcha's" occasionally encountered.

As usual, we'll end with a DOS-based Q & A session terminus. It should be somewhat quieter than the March DOS SIG Meeting since we were able to wrest the AK-47's away from the MP/M crazies who were attempting to hold Fred Williams hostage for his treasured, last copy of TopView 1.0.

Reagan Andrews

General Genealogy SIG

The Genealogy SIG is growing! There were 91 members present at the Feb 16, 1991 meeting on hand held scanners. The Mar 16 meeting was on Old Handwriting. The Genealogy SIG is the first of four genealogy SIGs that meet between 9 am and 12 noon each Infomart Saturday. The Genealogy SIG meets from 9 to 10 am in Room 7001 (the two double doors directly in front of the elevator). The Genealogy SIG is a general computer genealogy SIG that does not stress any one type of genealogy software. It normally has access to an LCD overhead projector which means that the computer screen is also displayed on the large overhead projector screen.

A disk library and a hard copy library are two of the support groups for the SIG. Disks are $1, the program on the disks are free, (Art Rubeck 214-255-2642 is the disk librarian). Almost all the disks are for IBM compatible computers, and are primarily 5-1/4 diskettes. Leonard McCown is the hard copy librarian. Various books, pamphlets, newsletters, etc. are available for checkouts at no cost.

The February program on hand held scanners (hand held scanners were discussed in detail in the Feb issue of North Texas PC News) was led by W. C. From of Third Coast Marketing, a manufacturer's representative company located at 4570 Westgrove Suite 250, Dallas, TX 75248 (214-250-1616). He brought his own computer and it was incompatible with the LCD overhead projector so we were unable to project the computer to the large ►

screen. Despite this, Mr. From got an ovation when he had finished. He represents Niscan scanners which are built by a local firm (Nisca Inc., Carrollton) and, in my opinion, are the best on the market.

The March 16 program was "OLD HANDWRITING" taught by Gwen Nuemann, the president of the Collin County Genealogy Society. Her talk was somewhat of a deviation as it has little to do with the computer role in genealogy, but several members have requested this talk. The handwriting of Colonial days is of interest to genealogy workers for several reasons. One is to be able to decipher the writing, another is to be able to read the original document (no tampering) and see the original signature. These documents include letters, diaries, deeds, records (church, etc.), and even the older census. She talked about how ink and quill were used, when graphic pencils were invented, and the effect of the calendar change in 1752, that old deeds, etc., had no punctuation, as well as how to decipher the old handwriting.

The April meeting will be "CD-ROM data from LDS libraries" and will be led by Art Rubeck.

Al Sanford

Personal Ancestral File (GENEALOGY) SIG

Personal Ancestral File (PAF) SIG meets from 10 to 11 a.m. in room 7001 every Super Saturday. PAF is a $35 software genealogy program good for beginners or experts. Versions are available for IBM compatible or Macintosh computers. There were 71 present at the Feb 16 meeting.

The latest PAF software is version 2.2. It was discovered to have a "bug" which affects users who have to back up on a single floppy disk. If a clean disk is not used at the beginning of the backup and if the database is larger than the disk capability, then the data could be corrupted. The maker of the PAF software has sent down three copies of the latest version, which eliminates the bug, and PAF SIG leader Travis Morris has authorized three members to upgrade the disks of any registered users. The three people are: Travis Morris in Cleburne (817-645-0617), Art Rubeck in Irving (214-255-2642), and Al Sanford in Garland (214-278-7888). If you want your disks updated, please contact one of these people. Each of the three also has a "repair" disk to recover corrupted PAF data files.

The program for February was a question and answer session. First time users sometimes have trouble with the setup, (installation) of the software. A lot of genealogists buy computers primarily for their genealogy data input. This means they are sometimes weak on their DOS (Disk Operating System) commands until they have used the computer for awhile. Once the PAF is on the machine, the next most asked question is "How do I enter the data?" Some people, especially the experienced genealogists, are concerned about who to call #1, and should all the males be odd numbers and the females even numbers, etc. One of the advantages of the computer is that the numbering system is not primary as individuals, descendants, and ancestors can be located and manipulated by other means.

Use of GEDCOM is generally the next stumbling block. GEDCOM is a software program that started with PAF but is now universal with all current programs. It allows the user to export or import data files by disk or by modem. Note keeping is always a subject for discussion. The most important thing to remember is to have good documentation on the sources of notes.

The March 16th program was on the Research Data Filer (RDF) portion of the PAF software. The stated purpose of the RDF was to help keep track of the individuals in your files who do not fit into your family tree at this time (and all resulting correspondence and references). But, even though it was not listed, the greatest asset of RDF is its use as a filing system for all your paper files.

Al Sanford

Lotus SIG

The subject for the March meeting was financial analysis concentrating on the investment side. In February, the SIG discussed borrowing. Sure hope this presentation went OK because as of today (3/10/91) Mark has not even begun his handout for the meeting. Hopefully, Mark has some spreadsheet models laying around so that he did not have to stay up all night getting ready.

The subject for the April meeting will be a continuation of financial analysis but concentrating on mortgages. In the February meeting, mortgages were barely mentioned. There was much interest in continuing the discussion at a later meeting - in this case April. With any luck, Mark will be able to put all of his presentations and models in the financial analysis series on a disk and make them available in the Disk-of-the-Month for the May meeting.

The Lotus SIG always takes time to answer questions that users have with 1-2-3 and other spreadsheet programs. If you have a burning question, come by and see us in April. Or if your questions cannot wait, send a message to the Lotus SIG mailbox on the BBS.

Mark Gruner and Pat Henley

OS/2 for End Users SIG

Want to find out more about OS/2 and how to use it? Then this SIG's for you. Those involved with OS/2 Standard or Extended Edition as well as DOS and Windows users are welcome to attend.

Usually we try to use an LCD projection unit to show the whole group actual examples of the points being discussed.

Lately we've been discussing OS/2 1.3 and using it's newest features such as DOS Compatibility Box and Print Manager enhancements as well as standard OS/2 features.

Future meetings will focus on the following:

March	ADOBE Fonts for OS/2
April	Communications Manager
May	LAN Server
June	Novell for OS/2
July	High Performance File System (HPFS)
August	OS/2 Std. Edition 2.0
Sept	Performance & Tuning
Oct	Data Base Manager

We hope to see you soon at 12:00 Noon each meeting Saturday,

Bob Fermier

Personal Users SIG

This Special Interest Group (SIG) is for you! ... if you consider yourself any of the following: ... a novice ... a ►

new PC owner ... a beginner with PC's ... a person curious about PC's ... a soon-to-be PC owner ... a personal (versus professional) PC user ... or ... a PC user needing to review some "fundamentals".

We offer sixteen (16) individual, stand-alone classes covering the "fundamentals of personal computers." Four classes are offered at each monthly meeting of the North Texas PC Users Group (2nd or 3rd Saturday on the 7th floor of the Infomart in Dallas). After four monthly meetings (covering four classes each), the entire 16-class curriculum is begun again. The classes are presented in numerical sequence, but you can take them in any sequence convenient to your personal schedule.

The classes always start each month at 9:00 AM, 10:00 AM, 12:00 Noon, and 1:00 PM. Since each class is a "stand-alone" ... i.e. self- contained and NOT requiring any other classes as prerequisites ... you can begin attending at any time convenient to your other priorities and schedule. In addition to receiving informative instruction from people very knowledgeable in their field and class topic, you also receive a set of handout notes for each class, to allow you later review. There are no homework assignments, no pressures, no tests, and no dumb questions. You don't even have to be a member of the NTPCUG before you attend ... ALTHOUGH YOUR ARE ENCOURAGED TO JOIN NTPCUG AND VOLUNTEER YOUR TALENTS.

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Join us as we learn and review "THE FUNDAMENTALS."

The four classes for APRIL 1991 will be:

9:00 AM Class 1.3
START UP
10:00 AM Class 2.3
DISKETTE SIZES & FORMATTING EACH
12:00 Noon Class 3.3
COPYING & BACKING UP FILES
1:00 PM Class 4.3
PERSONAL COMPUTER HARDWARE

Bob Presley

R:Base SIG

The February meeting was a demonstration of summing in a data entry form without programming. R:Base for Dos v2.11 was used. During the March meeting, a demonstration of the Multi-column Pop-up Menus in forms without an EEP was demonstrated using R:Base 3.1. We also discussed the new updates for R:Base 3.1 that are to ship at the end of March. A new product, R:SCOPE, which allows you to see and fix damaged databases was mentioned at the March meeting. I believe that I will be able to demonstrate this new product in April.

Coming up in May, I expect to demonstrate the new version on R:Base currently dubbed R:Base 3.1A. This new version is supposed to include a code debugger.

As always the SIG will take time to answer your questions about R:Base. See you at the April meeting.

Richard Hauslein

TI Pro SIG

What do you call a Disk of the Month when it no longer comes out on a monthly basis? Disk of the Now & Then? Disk of the Once in Awhile? Disk of the Whatever? Take your pick, or choose another title. (Should we have a contest to pick a new name? Nah.) Anyway, barring unforeseen complications, we will have a new disk at the April meeting, and it should be a pretty good one. Present plans call for it to include a number of useful utilities, including the newest version of the LHARC compression program, a new compression program called ARJ, and the new PKLITE program from PKWARE (of PKZIP fame) that compresses executable files (those with .COM and .EXE extensions) but leaves them in executable form.

Well, now that it's April (actually, this column is being written in early March), it is possible to report that the February meeting—our first as a SIG of the NTPCUG—went well. The dBase session, led by Ed Snuggs, attracted about twice as many members as usual, and the main meeting was also well attended. James Corbett, who has agreed to serve as our SIG leader, presided over the main meeting. Ed Fleischman, sometimes known as the father as the TI Pro color monitor, was a guest at the main meeting and gave us some history about TI PC monitors and some predictions about where he thinks monitor technology is going.

For the time being, the meeting schedule will remain as it was in February and March; that is, the dBase session will be from 10:00 to 10:55, and the main meeting will be from 11:30 to 12:30 (despite what the February and March issues of North Texas PC News indicated), and the New Users session will be from 1:00 to 1:55.

10:00AM - 10:55AM dBase for the TI-Pro
11:00AM - 11:30AM *** Open for NTPCUG business meeting
11:30AM - 12:30PM TI-Pro General Discussion
1:00PM - 2:00PM TI-Pro New Users

It was decided that it would not be feasible to integrate sales of our Disks of the Month with sales of the NTPCUG's Disks of the Month in the vendor area. Instead, we will bring our disk cart to the monthly meetings, so disks can be sold before and after the main meeting.

So, those of you who have an interest in obtaining any of our existing disks or a copy of the new disk that will be available at the April meeting, please come to the TI Pro SIG main meeting at 11:30 and either come a little early or plan on staying a few minutes after the meeting to get the disks you want.

Norman Rogers

Word SIG

Windows GUI vs. DOS command line operation, which way to go for Word users?

Recent Word SIG Meetings, particularly the February Meeting, have sounded more like DOS SIG than Word SIG discussions. Why? Because successful use of a powerful wordprocessor depends on good PC configuration.

Just as we saw February with Word 5.5, many questions about Microsoft's Word for Windows (WinWord) are really questions concerning appropriate PC configuration. That means via the CONFIG.SYS, AUTOEXEC.BAT — and Windows 3.0's WIN.INI and SYSTEM.INI files.

Question is: can one SIG cover three distinctly different wordprocessors? One possibility would be splitting the ►

SIG into two SIGs — a DOS-based Word SIG and a WinWord SIG. Word 5.5 for DOS further confuses the issue(s) with its WinWord-like menu and command structure, coupled with the superior speed of DOS operation. A second alternative would be featuring both interface versions, but on alternate meeting days.

Demonstrations of Word features across platforms will require utilization of a PC capable of running Windows 3.0 and use of a VGA- capable display system instead of the CGA plate we've been using with the overhead viewer. We'll talk about all this in April.

Reagan Andrews

A Bystander's Commentary

by Andy Oliver

For those of you who are not on the User's Groups Bulletin Board System (BBS), here is an overview of the categories and the status of messages as of 9:30 pm on Thursday, March 6, 1991.

There were 6 jokes under the Humor section with the most recent being 3/1/90, while the Politics section only had 8 messages with the last one on 12/4/90. So it could be that the most recent jokes were about politicians, or BBS'ers would rather laugh than cry, or it could be that nothing politically significant has happened since 12/4/90, or the war has suspended politics temporarily.

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The major BBS Conferences (ones with the most activity) on this date were All (49), C Language (52), Assembler Language (63), OS(46),Communications (78), Advanced Programmers Gossip & Innuendo (47), Hardware(47), BASIC Language (33), and Word Processing (27).

This would make one believe that (A) There are a lot of programmers exchanging tips, (B) DOS and BASIC are not dead, (C) A lot of stuff can't be categorized so it gets in the ALL Conference, (D) Everyone likes to get in on the gossip, (E)Hardware fails, or (F) All of the new users on the BBS have sent a message to the Communications Conference asking WHAT DO I DO NOW? I vote for all of the above.

The oldest message prize goes to the Cryptanalysis SIG Conference, which, due to other commitments by it's leader, has ceased to exist.

The newest message can almost always be found in All or AdvancedProgrammers(see preceding paragraph).

The least activity is showing up in: Archived DOM INDEX (1). This always has only one entry. —R:Base SIG (1)... They say the new personal R:Base is so easy to use that no one needs any help. —Cryptanalysis SIG (1)... We already discussed these guys. —Graphics SIG (2)... The Graphics SIG died for lack of a leader. —Volunteers (2)... As an all-volunteer organization, these two people are doing a heck of a job. —Turbo Pascal (3)... No one is buying these German sports cars. —Unix (4)... Bless you. —Business/DAC Sftwr (4)... Do people use computers in business? —Beginners (4)... If you can sign on the BBS, you've probably passed the beginners stage.

And for honorable mention, the Board of Directors hasn't changed any policies in a month; —the BBS must be running alright since the SYSOP hasn't received any suggestions since 1/28/91; —Lotus keeps rolling along; —the Windows conference is picking up as more copies come off of the shelf; —and the Swap Shop still has a few bargains. ——So all in all, you probably want to get on the BBS to see how things have changed.

Andy

P.S. Yes, Fred, Paradox is still there, paradoxically speaking.

The Adventures of PC Tech

by Ben Thar

Our first adventure finds our intrepid hero, disguised as the mild-mannered mail person, walking past the office where the new JNC personal computer is being taken out of the box and plugged in. A crowd has gathered in awe as a brave manager flips the BIG RED SWITCH. Everyone jumps back when it starts ticking and little numbers appear in the upper left corner. Now someone asks, "Shouldn't we read the instructions first?" "No way, kids are using these things in school. Why should we read the manual? Let them read manuals in school. When I graduated, I promised myself that the only reading that I would do would be purely for entertainment." The crowd gave out a hearty "Here, Here!". Well, our hero watched as puzzled looks came over the faces of the office workers as the JNC whirred, beeped and belched out a C> and stopped. "How is this supposed to make us more productive?", whispered someone, out of earshot of the boss. The boss quickly turned to the mail person (PCT) and said, "You seem to have time on your hands, I want you to learn how this thing works, train the staff, and don't let your other duties slack off or I'll have to demote you." The gathering broke up and PCT just stared at the new machine. The thought of a demotion sent chills down her back, because there was no job lower than hers. She did the only thing she could think of, she picked up the manual, put it on the mail cart and started reading it, day and night, until a light bulb went on and she said, "This is just a dumb machine, like the postage machine, and it's not going to do anything unless a program is purchased and someone enters data into it." Luckily, no one was sitting close to her on the bus when she started talking to herself. A friend of hers had told her that the guys in the computer lab at City College always talk to themselves, so PCT thought it came with the territory. The next day at work, PCT told the manager who had exhibited the courage the day before, that a program would have to be obtained before the computer would work. He walked unknowingly into the boss's office and made this pronouncement as if it were his own. The boss exploded, "You mean that after all the money that I spent on that thing at the Super Duper Office Warehouse Store, I have to spend more money before it revolutionizes this office? Well, do it, but remember, I'm expecting results." He knew he might be putting his job on the line, but he just had to ask, "Sir, what do you want the computer to do?" The boss thought for a moment and said, "Reduce overhead, increase productivity, eliminate overtime, and do my taxes so I don't have to pay those CPA's." PCT was told to go to the SDO Warehouse Store, because they had an account there, and buy a program like the CEO wanted. She remembered her friend talking about a program that was a standard at the college called Periwinkle All Together, so she bought it and spent the next week pouring over the documentation; no one had told her that reading the documentation is never the first thing that a P.C. user does. Join us next time when PC Tech takes her first big step towards her heroic destiny by loading the P.A.T. software on the JNC personal computer.

Bob

Shareware Review for Mille Bournes V4.01

by Bob Wuller

Mille Bourne V4.01 by Richard Tom is a great version of the French card game for one player against the computer. The game requires 204K of disk space, but claims to use only 30K of memory through the use of overlays. Although you can use the keyboard to move an arrow around the screen, a mouse makes the game much more enjoyable.

The few minutes it takes to become accustomed to positioning the mouse on the cards is far outweighed by the hours of enjoyment from playing the game. Former Mille Bourne players will enjoy this game immediately. If you have never played Mille Bourne before, the game provides a complete, detailed explanation of how to play. There is an option for autoplay, which demonstrates how the game is played. Clicking on a box with a question mark will show you which card the computer suggests you play.

There are many nice features in this version. You can save and restore games in progress, toggle sound on and off, change hands with the computer, and view all the cards remaining in the deck. The desperate card shark may want to use the option to view the cards hidden in the opponents hand. There is also an option to quickly save the game and exit to DOS for those who live dangerously by playing games at work.

For the $25 cost of registering the game, you get the complete Mille Bourne source kit and Monopoly designer kit written in Turbo Pascal V5.0. For an additional $5, he will also provide source for new turbo EGA GEM-like windows. There is a one year, unconditional guarantee from the time you register the software. In summary, Richard Tom's version of Mille Bourne is a good program with excellent graphics, complete with all the bells and whistles not expected in a shareware program.

Bob

Inside the North Texas PC Users Group Community

Connie Andrews

Volunteer Allan Harbaugh signing up a new member at a recent NTPCUG meeting.

This month we would like to express our appreciation to Allan Harbaugh for his continuing dedication to the NTPCUG. Allan, a Professor of Physics, has been a member since January of 1984. When we moved to Infomart and needed folks to staff the Information Booth at our new quarters, Allan was one of the early ones to sign up.

We have counted on his support over the years and have come to rely on his observations to help streamline Booth activities. As a matter of fact, Allan was very instrumental in the idea of staffing the Booth each hour with seasoned volunteers ("Anchors") to guide new volunteers and supervise activities. Anchors have been our mainstay ever since.

And that's where you'll find Allan, anchoring from 11:00 to 12:00 every meeting day and tossing out new ideas to keep us on our toes. Stop by and say hello.

In this issue we are acknowledging volunteers listed below who served for the month of FEBRUARY. (DOM volunteers are listed for January and February.)

PLEASE DON'T FORGET - our officers, directors, SIG coordinators and leaders, newsletter publisher, editor, staff and writers, newsletter exchange and BBS SYSOP and staff are all volunteers; their names are listed in other sections of this newsletter.

INFOMART Liaison
Stuart Yarus

Presentation/Equipment
Setup and Breakdown
Timothy Carmichael
Chris Jung

BBS Champion
Bill Green

Information/Registration Booth
Harvey Andrews
Dianne Arnold
John Arnold
Mike Ashley (Anchor)
Lathan Baker
Charles Bay
Cliff Bishop
Ralph Braver
John Ferguson (Anchor)
Rick Griffith (Anchor)
Judy Griffiths (Anchor)
Allan Harbaugh (Anchor)
PehL. Lee
Jackie May
Claude McClure (Anchor)
Charles Mooney
Joel Nall
Andy Oliver (Anchor)
Raymond Reyes (Anchor)
Steve Saunders (Anchor)
Fred Steadman (Anchor)
Connie Testa (Statistician)
Larry Tucker (Anchor)
Everett Turner
Jose Valenciano (Anchor)
Judith Williams (Anchor)
Paul Williams (Anchor)
Larry Wood

Disk of the Month (DOM):

DOM Central Committee
Roy Bales
Preston Brashear
Charles Carter
Mark Gruner
Howard Hamilton
Kathryn Loafman
Kenneth Loafman
John Puckette
Virginia Salter
Ben Weatherall

DOM Volunteer Coordinator
Bill Drissel

DOM Table
Mike Ashley
Roy Bales
Richard Baumann
Stan Berlin
Jim Brumke
Charles Carter
Charles Cashion
Jay Chambliss
Gene Carleton
Shawn Dunn
Howard Harkness
Karen Harkness
Stephen Hay
Pat Henley
Jo Johnston
Bob Karleback
E. M. Kelley
Ken Loafman
Zach Loafman
Didi Mack
Duane Martin
Bob Post
Elaine Stephens
Jerry Stone
Oscar Tyler
Claude Walston

With Special Thanks to:
Joe A. Allen
Rob Bender
Gene Carleton
Charles Carter
Bill Drissel
Kent Haven
Jo Johnston
Bob Post
Virginia Salter

DOM Review/Presentation
Mike Ashley (2 reviews)
Preston Brashear
Charles Carter (2 reviews)
Mark Gruner (5 reviews)
Pat Henley
Steve Lanier
Kathryn Loafman
Kenneth Loafman (3 reviews)
Virginia Salter
Ben Weatherall (2 reviews)
Fred Williams

VOLUNTEER INFORMATION

1. Via BBS: (817) 461-0425 (metro) or (817) 461-0506 (metro). Sign up on the Volunteer Conference - make the subject matter your area of interest.

2. Meeting day: Sign up at the Information Booth or DOM Booth to work those areas in a coming month.

3. By phone:

Auditorium Presentations	
Timothy Carmichael	331-6303 (h) 661-4626 (w)
DOM Booth Activities	
Bill Drissel	264-9680 (h)
DOM Software Review	
Howard Hamilton	644-5721 (h)
Information Booth and General Information	
Connie Andrews	828-0699 (h)

Disk of the Month

Disks released at the March 1991 meeting

MARCH 1991 Disk(s) of the Month:

Disk 599AB. Gags Disk IV - The 1991 Collection of Tricks & Gags, collected by Shawn Dunn.

In 1991, April 1 falls on a Monday and there is no better way to start off a dreary work week than with a prank or two. This year's collection of files will give you or a friend a laugh (or get revenge on a enemy).

Do you know someone that is extremely paranoid of catching a computer virus? PARASCAN is for them. It searches out and violently attacks any virus on your system. For instance, the deadly Richard Nixon virus may leave 18 minute gaps in your data or the Fred Ziffle Virus which turns the user into a pig. PARASCAN also makes some very insulting comments about your computer while it "searches" for a virus. Some of the comments include "Do you ever pay for your stuff" or "Does your mother know you have this file".

Having boss problems? People feel that you do not have enough to do. DECEIVE and ASAP will cure that. ASAP will run diagnostics for 2 minutes which is plenty of time for you to enjoy that cup of coffee. It will beep and tweek loud enough for everyone to hear. DECEIVE will let you capture a screen of a program like Lotus 1-2-3 so that you can pop that screen up later when you are playing a game or another diversion.

TRAN and ATOM are the voice programs this year. TRAN will take an ASCII file and speak it. Put in the text of Lincoln's Gettysburg address and type TRAN LINCOLN and watch out. ATOM takes a popular tune and plays it over and over again. (Watch the Num Lock, Caps Lock and Scroll Lock lights). When you escape out of the program, it sounds like someone pulled the plugged.

If you are looking for funny screens and funny printer utilities, there is that too this year. TFACE produces a man's face talking a mile a minute (this program does require VGA). EXPLOSIV is a screen saver that produces a fireworks screen. (Set this up in someone's AUTOEXEC.BAT and watch what happens to their screen after of couple of seconds). MESSAGE drops in a message of your choice to somebody. DANCE gives you a stick figure dancing across your screen. 3D produces three dimensional characters on the screen and MW3DCHAR produces 3d characters for the printer and CURSIVE turns text into a cursive characters. Both MW3DCHAR and CURSIVE could be captured and put into a text file.

For funny looking prompts use CATPROMP. It produces a Bill the Cat (of Bloom County fame) prompt (Aack Aaack) and it does require ANSI.SYS to run.

IF you have trouble setting up the pranks, the program HOTBOOT can help. HOTBOOT (the unregistered version) comes with 6 gags and can help you set up one of those gags so that as soon as computer boots up, the unsuspecting person will be greeted with (for example) a flashing warning and an alarm that warns everyone that an unauthorized person is using that computer. Or have the computer boot up with some romantic talk.

This software was downloaded and contributed by Shawn Dunn.

This review was prepared by Shawn Dunn, edited by Mark Gruner.

Disk 600. Gags Disk V for Windows - Tricks & Gags & Window pains, collected by Shawn Dunn.

In 1991, April 1 falls on a Monday and there is no better way to start off a dreary work week than with a prank or two. This year's collection of files will give you or a friend a laugh (or get revenge on a enemy). Many can be used as screen savers but they have a twist to them.

BURST will really make the Windows user wonder what is happening. It will make "bullet holes" appear on the screen that look like someone shot at the monitor and it has the sound effect of a gun going off. Finally it will ask you if you have had enough.

Or if you do not want the noise but you do want to "crack up" your monitor use BURST2. BURST2 produces large cracks on the glass.

SCRNPEAC is a screen saver which is nice. But along with the "normal" screens that one might use such as the snow(.spx) or the kalscope(.spx) you can use the worms(.spx) that will put crawly worms on the screen. You can have the SCRNPEAC program use one or randomly use all the SPX files that comes with it.

Other of the screen savers are BARTEYES (You got it dude) that put bouncing Bart Simpson's face around the screen. Also watch his eyes as you move the mouse ►

around. And talk about eyes. WINYEYES will put a small pair of eyes on the screen that will follow the movement of your mouse. Click on the application and you get a medium size pair of eyes and click again in the eyes will fill the screen. EYES is a screen saver (like BARTEYES) will save the screen with a pair of eyes roaming around. HORSE will produce a galloping horse across the screen when there has been no activity for a select amount of minutes. All of these screen savers can be tuned to "x" amount of seconds you would like. Once you selected the amount of seconds you want until the screen savér kicks in and as soon as there is activity then the screen resumes back to normal.

For the nature lovers that would like to have other uses for your computer, you can turn it into a fish bowl. FISHES sets up your screen into an aquarium and you can even select the amount and type of fish you want in this computer aquarium.

They're creepy and they're crawly and they will crawl over and around and through any Windows screen you are in. SLUG will crawl over your screen erasing data as it goes. BUGS will produce a variety of bugs over your screen. If you are not into these slimy creatures, then there are other programs that will pop up and cover your screen. FACE, EYES and WIZ will cover your screen with a goofy looking face or you can have your screen covered with eyes or with a figure from a movie called Wizards.

And finally there is Yinyang. A nice screen on the Chinese symbol will a little poem. A nice screen for when you are away from your computer.

This software was downloaded and contributed by Shawn Dunn.

This review was prepared by Shawn Dunn, edited by Mark Gruner.

Disk 601. Automon 3.0, 3/90 - Configurable Monopoly Game, 85 Bartlett Street, Somerville, MA 01145. Shareware Fee: None.

This Disk comes with two playable versions of monopoly. They were tested on two computer systems, using different graphics boards and configurations. The program behavior was identical for all system set-ups tested. There are several CAVEATS in playing this game. First and most importantly, after exiting the game YOU MUST TYPE "MODE 80" AND ENTER to return the screen and cursor to normal and allow other programs to function normally. The problem is consistent whatever system set-up I used. For both games, the "Get Out of Jail Free Card" (an automatic function) does not work even if the COMPUTER is playing with a "Get Out of Jail Free Card." If you exit without any named players, the option to return to the game is disabled.

The second version on the disk is the trading of baseball stadiums and is started by entering DEMO. The Baseball version is initially set-up to play against the computer, but can be changed to use with other players. Baseball uses "Owners Association" for Community Chess, "Hand of Fate," "Deus Ex Machina," and "As the Cookie Crumbles" for Chance with baseball events controlling the options. The utilities are replaced by the Umpire and Players union and the railroads are replaced by air lines. Houses and Hotels are still used where skyboxes etc. would fit better with the rest, but what can you expect when the most expensive real estate is Cleveland Stadium?

SYSTEM REQUIREMENTS: The author does not specify any requirements, however it uses ANSI text graphics in direct video mode so only truly standard graphics boards will work. It requires 140KB of free memory to run.

This review prepared by Ann Weatherall, edited by Ben Weatherall.

Disk 602. ViruScan v75, 2/91 - McAfee Virus Scan Utilities by McAfee Associates, 4423 Cheeney Street, Santa Clara, CA 95054-0253. (408) 988-3832 office, (408) 970-9727 fax, (408) 988-4004 BBS 2400 bps, (408) 988-5138 BBS HST 9600, (408) 988- 5190 BBS v32 9600. Copyright (C) 1989, 1990, 1991 by McAfee Associates.

VIRUSCAN Version 6.9V75 - VIRUSCAN (SCAN) is a virus detection and identification program for the IBM PC and compatible computers. VIRUSCAN will search a PC for known computer viruses in memory, the boot sector, the partition table, and the files of a PC and its disks. VIRUSCAN will also detect the presence of unknown viruses.

CLEAN-UP Version 6.9V75 - CLEAN-UP (CLEAN) is a virus disinfection program for IBM PC and compatible computers. CLEAN- UP will search though the partition table, boot sector, or files of a PC and remove a virus specified by the user. In most instances CLEAN-UP is able to repair the infected area of the system and restore it to normal usage. CLEAN-UP works on all viruses identified by the current version of the VIRUSCAN (SCAN) program.

VSHIELD Version 3.1V75 - VSHIELD is a virus prevention program for IBM PC and compatible computers. It will prevent viruses from infecting your system. When VSHIELD first loads it will search the PC for known computer viruses in memory, the partition table, boot sector, system files, and itself and then install itself as a Terminate-and-Stay-Resident (TSR) program. It will then scan all programs before allowing the system to execute them. If any program contains a virus, VSHIELD will refuse to allow it to execute. It will also not allow the system to be warm-booted from any diskette which contains a boot-sector virus. VSHIELD can optionally check files that have been validation coded by the VIRUSCAN (SCAN) program for new, unknown viruses.

NETSCAN Version V75 - NETSCAN is the network version of VIRUSCAN. It scans network virtual drives and identifies any pre-existing PC virus infection in the file servers. NETSCAN will indicate the specific files or system areas that are infected and will identify the virus strain which has caused the infection. Removal can then be done manually or, if the infection is widespread, automatic removal utilities are available which can disinfect each virus strain.

VCOPY Version 0.6V75 - VCOPY is a replacement for the DOS COPY command for IBM PC and compatible ►

machines. VCOPY will search a PC for known computer viruses in memory, then search the partition table and boot sector of the source and destination disks, in addition to the files being copied. This prevents viruses from entering your system and identifies infected diskettes. VCOPY functions identically to the MS-DOS 3.30 COPY command, with the exception of the COPY CON function. For a list of viruses detected by VCOPY see the accompanying VIRLIST.TXT file.

This software was downloaded from McAfee's Homebase BBS by Kenneth Loafman.

This review prepared by Kenneth Loafman, edited by Kathryn Loafman.

Disk 603AB. Intellifont 1.0, 1/91 - HP LaserJet III and Windows 3.0. HP Intellifont-for-Windows 3.0, version 1.0, c1990 by Hewlett Packard, Call 1-303-353-7650 for additional copies.

Here is what Hewlett Packard says about this software:

"High-quality screen fonts ... get instant screen fonts in the styles and sizes you want from within your Windows application Matching screen fonts for HP LaserJetIII and IIID printer- resident scalable fonts ... Now your type can look as good on screen as it does in print."

Hewlett Packard is making "Intellifont-for-Windows 3.0" widely available because once you have it installed, you will probably be in interested acquiring MORE FONTS. They just happen to have a fine and varied collection of fonts available from the HP Master Type Library (price range $99-$349) which are remarkably easy to install once you have "Intellifont-for-Windows 3.0" on your system. For dealer information call 1-800-752-0900.

SYSTEM REQUIREMENTS: HP LaserJet III printer (or family), IBM PC/AT or compatible, high-density 5.25 drive, Windows 3.0.

Software received from Hewlett Packard, by way of Regan Andrews.

Text supplied by Hewlett Packard, edited by Kathryn Loafman.

Disk of the Month MAIL ORDER FORM

North Texas PC Users Group, Inc.
Mail form to: NTPCUG, DOM Mail Order, P.O. Box 780066, Dallas TX 75378-0066

Sold To: Ship To:

DOM Disk #	Number of disks in set.	TITLE/DESCRIPTION

TOTAL disks _____ @ $2.00 each . . . . . _____

Shipping and Handling - $1.00 for each 5 disks . . . . . _____

TOTAL AMOUNT FOR ORDER . . . . . _____

Specify disk size: 5.25" ❑ 3.5" ❑ Unless otherwise indicated, 5.25" disks will be sent.

ON COMPLEXITY

No. 50 in a Series

by Jim Hoisington

This month has seen the acquisition of several small software companies by Microsoft and Lotus. Consumer Software is now part of Microsoft. CC:MAIL and Samna are now part of Lotus Development Corporation. What's going on here?

The complexity of PC software has grown to the point where small software companies are having trouble funding a new round of research and development. And, there is increasing pressure by consumers for the large software companies to provide a complete line of software products.

We are now beginning to see the mainframe people starting to take PC's seriously. The data processing manager is ordering PC software. In most mainframe shops, software comes from one or, at most, two vendors. The thought of buying each software title from a different vendor is inconceivable to these people. They tell me that by buying everything from the same software company, each software title will be compatible with the other titles.

The software companies, on the other hand, are buying up software made by a variety of companies and changing the name on the package. If you think that these packages will work together, I've got some beach front property in Sabine Pass, Texas that I'd like to sell you.

Will the rest of us buy a product just because of the name on the box? I doubt it. Those of us who have been consumers of PC software over the last few years realize that even the big companies can bring out turkeys. I doubt that the any current PC users will buy a title just because of the name on the box.

Will the software companies be able to integrate and manage these purchased pieces of software? After 3 years, Paradox which was developed by ANSA and merged into Borland, finally works in conjunction with Quattro Pro a Borland developed product.

Managing the research and development cycle on multiple products means that the software companies will have develop an internal corps of professional software development managers. People who can handle projects that last longer than 6 months and that require more than 4 programmers. Lotus went through some of this transition when they brought out release 3.0 of 1-2-3.

In the past, the large software companies have used recently graduated computer science graduates to craft their code. Computer science courses teach the basics, but the complexity of the code in the future will require a more extensive knowledge of techniques than are taught in universities.

The small companies that are being bought up are often staffed with older, experienced programmers who were willing to put in long hours because of the entrepreneurial reward of that can come from developing a winning software title. Most of the programmers that I know won't last at the big companies.

So where does that leave the large companies like Microsoft and Lotus? The next three years will tell. It will interesting to watch them compete with single product or product focused companies like Novell and WordPerfect Corporation.

Jim

MEMBERSHIP APPLICATION

North Texas PC Users Group

The NTPCUG is a non-profit, independent organization of individuals learning to apply personal computers to practical problems. For additional information, call (214) 746-4699.

Member # _____

Name: (Last) _____ (First) _____

Address: _____

_____

City: _____ State: _____ Zip: _____ - _____

Phone: (Check Preferred No.) Home ___ (___) _____ Metro? Y ___ N___

Work ___ (___) _____ Ext. ____ Metro? Y ___ N___

Occupation/Profession: _____

Check one from each column below:

Payment:	Membership Classification:	Application Status:
Cash ___	Regular ($24.00) ___	New Member ___
Check ___	Student ($12.00) ___	Renewal ___
Credit Card ___	(full-time with ID)	Address Change ___

Please initial here ___ if you do not wish to have your address included on member lists sold for the NTPCUG's benefit to advertisers of IBM compatible products.

Meetings & Times

9:00 AM - 10:00 AM — **Borland Corporation**
ObjectVision for Windows Applications

10:00 AM - 11:00 AM — **Ashton-Tate Corporation**
Applause II — "Knockout Business Graphics That Anyone Can Knock Out - On Anything"

11:00 AM - 11:30 AM — **NTPCUG Business Meeting**

1:00 PM - 2:00 PM — **Intel Corporation, PC Enhancement Division**
PC Memory Issues, Now and Future

(See page 1 for description of programs.)

Special Interest Group Meetings

For possible time changes, check the Bulletin Board just before the meeting and the overhead display in the lobby at INFOMART.

9:00 - 9:55

Assembler
DOS
General Genealogy
Hardware Solutions
Personal Users
Software Review
Windows Applications

10:00 - 10:55

Basic Programming
CAD
dBase for TI Pro
Fox Pro Database
Local Area Networks
PAF -Genealogy
Paradox
Personal Users
Unix/Xenix

11:00 - 11:55

Family Roots - Gnlgy.
Roots III - Genealogy
TI Pro General Mtg.

11:30 - 11:55

Orientation

12:00 - 12:55

Beginning Pascal
C++/Advanced C
Communications
Community Service
Investors
OS/2 for End Users
Personal Users
R:Base

1:00 - 1:55

Beginners C Language
Business Apps./DAC Easy
LOTUS
OS/2-Windows Developers
Personal Users
TI Pro - New Users
WORD

2:00 - 2:55

Advanced Programmers
dBase
WordPerfect

Special Interest Groups

SIG Coordinator	Andy Oliver	(214)223-4044 h
	K. B. Barton	(214)747-0209 w
		(214)891-0941 h
Assembler	Frank Cavallito	(214)423-9221 h
Basic Programming	Kent Kingery	(214)458-9711 w
		(214)317-0125 h
	Steve Dixon	(214)271-2292 h
		(214)205-2215 w
Beginners C Lang.	Stan Milam	(214)776-1503
Beginners Pascal	Phil Chamberlain	(214)243-5034 h
Business Applic.	Bruce Schubert	(214)233-8353 w
C++ / Advanced C	Kent Cobb	(214)343-3862 h
	Tom Cook	(214)341-1890 w
Communications	Doug Gorrie	(214)618-8002 h
		(214)464-7942 w
	Bill Green	(817)731-1308 h
Community Svc	Jay Shilstone	(214)827-5751 h
		(214)361-9681 w
Comp Aided Design	Bill Sephton	(214)296-1799 w
DAC Software	Greg Cohen	(214)327-4172 h
	Punt Shaw	(214)669-9633 w
		(214)235-2559 h
dBase	Rodney Haas	(214)255-4400 h
		(214)407-0070 w
	Vincent Gaines	
DOS	Jim Holsington	(214)416-3101 h
	Reagan Andrews, Ph.D.	(214)828-0699 h
Fox Pro	Kevin White	(214)644-7536
Genealogy	Al Sanford	(214)278-7888 h
Hdw Solutions	David McGehee	(214)681-0202 h
	Gary Johnson	(214)937-9678 w
		(214)937-5851 h
Investors	Harry Widing	(214)350-4611
	Nash Kappoor	(214)458-9158
Local Area Net	Bernie Van Roekel	(817)451-4540 w
	Francis Bright	
LOTUS	Mark Gruner	(214)964-8174 h
	Pat Henley	(214)271-4911 h
		(214)229-8216 w
OS/2-Windows Dev	James Dunn	(214)279-1738 h
		(817)962-4596 w
OS/2 for End Users	Bob Fermier	(214)550-2604 w
Paradox	Fred Williams	(214)492-1315
Personal Users	Bob Presley	(214)867-1679 h
	Bob Russell	(214)422-4269 h
Programmers	Kent Cobb	(214)343-3862 h
	Jim Holsington	(214)416-3101 h
R:Base	Richard Hauslein	(817)467-4581 h
	Don Branham	(214)352-0888 h
Software Review	Pat Henley	(214)271-4911 h
		(214)229-8216 w
TI Pro	James Corbett	(214)821-4788 h
		(214)634-2360 w
	Kurt Krider	(214)348-3766 h
Unix/Xenix	Doug Scott	(817)267-0758 h
		(817)678-0367 w
	Jim Stallworth	(214)240-1085 h
		(214)604-3683 w
Windows Applic.	Roy Cassas	(817)481-7184 h
		(214)604-1004 w
WORD	Reagan Andrews, Ph.D.	(214)828-0699
	David McGehee	(214)681-0202 h
	Dorothy Bertine	(817)387-9993 h
WordPerfect	K.B. Barton	(817)349-9690
		(214)747-0209 w
	Zack Porterfield	(214)434-1844 w

North Texas PC Users Group, Inc.

P.O. Box 780066, Dallas, TX 75378-0066

Phone (214)746-4699 for recorded information about the User Group and meeting dates.

The North Texas PC Users Group, Inc., is a non-profit, independent group, not associated with IBM or any other Corporation. Membership is open to owners and others interested in exchanging ideas, information, hardware, predictions, and other items related to IBM Personal and compatible computers. To join the Group, complete the application blank printed elsewhere in this newsletter, and send it with $24 membership dues to the Membership Director whose address is shown below. A subscription to the newsletter is included with each membership. The Group meets once each month, usually on the second Saturday. See cover for date, time and place of the next User Group meeting.

Board of Directors

Jim Holsington, Chairman — **Mark Gruner**
Reagan Andrews, Ph.D. — **Kathrine Loafman**
Andy Oliver

Officers

President	Jim Holsington	(214)416-3101 h
President-Elect	Andy Oliver	(214)223-4044 h
Program Chair.	Timothy Carmichael	(214)681-4628 w
Treasurer	Ken Conner, CPA	(214)669-3377 w
Secretary	David McGehee	(214)681-0202 h
Membership Dir.	Jim Holsington	(214)416-3101h
Advertising Dir.	John Pribyl	(817)275-4109 h
Disk of the Month	Kathryn Loafman	(214)596-2539
Group Statistician	Connie Testa	
Volunteer Coord.	Connie Andrews	(214)828-0699

Members Emeritus

Phil Chamberlain — John Pribyl — Stuart Yarus

NOTE: To access the BBS Metro line from outside Area Code 214, use Area Code 214. (This is NOT a toll call from Area Code 817.)

NTPCUG BULLETIN BOARD		(214)387-2751
		(214)387-2752
		(214)263-9036 (Metro)
	SYSOPs –	Tom Prickett
	Asst. SYSOP.–	Maggie Mooney
	Technical Advisors:	Fred Williams
		Pete Testa
	User Relations:	Kent Cobb
	Information Mgt:	Dan Marmion
	Technical Services:	Leroy Tennison
TI PRO BULLETIN BOARD		(214)484-5122
	SYSOP: –	Bill St. John

Address Changes, etc..

Payment of dues, address changes, and inquiries about membership should be directed to

NTPCUG Membership Director
P.O. Box 780066
Dallas, Texas 75378-0066

(Check newsletter mailing label for your renewal date..)

North Texas PC Users Group
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Dallas, TX 75378-0066

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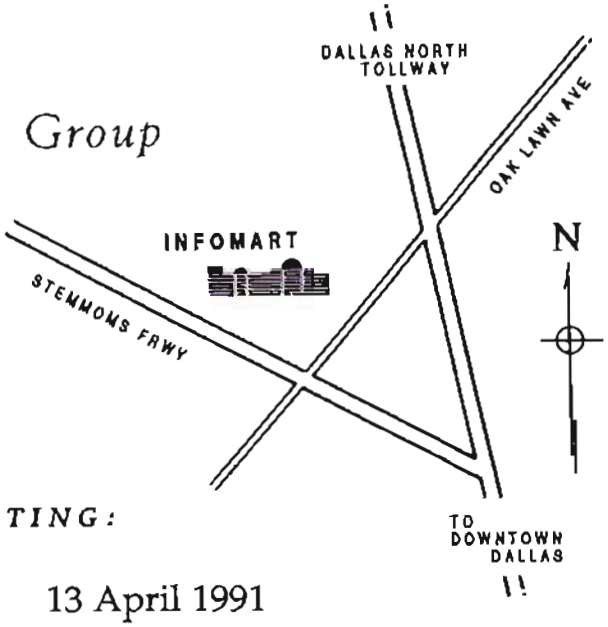

NEXT MEETING:

13 April 1991

SUPER SATURDAY

GENEALOGY SIGS

Saturday, April 13, 1991

GENERAL GENEALOGY SIG (Room 7001) 9 AM to 10 AM

PAF SIG (Room 7001) 10 AM to 11 AM (Travis Morris 817-645-0617)

FAMILY ROOTS SIG 11 AM to 12 AM (Joyce Jones 214-618-3717)

ROOTS III SIG (Room 7001) 11 to 12 AM (John Wylie 214-495-4410)

GENERAL GENEALOGY SIG PROPOSED PROGRAMS

April 13 - CD ROM data from local LDS Libraries, brought by Art Rubeck, Disk Librarian for the Genealogy SIG

May 24 - Automated Archives, brought by John Wylie, leader of the Roots III SIG

GENERAL GENEALOGY SIG OFFICERS

Al Sanford, SIG leader 214-278-7888

Leonard McCowen, Hard Copy Librarian 214-254-7952

Art Rubeck, Disk Librarian 214-256-2642

BEHIND THE SCENES

Ron Fairbrother, backup Secretary

Tom Bennett, LCD Overhead Projector

Jim Rash, Oakline Online BBS 358-5192

Phil Faulkner, copies of SIG roster

L.D.S. Family History Library Branches
Dallas-Fort Worth Area
10 March 1991

Dallas East Stake Center 10701 Lake Highlands Drive Dallas, Texas 214-349-0703	Tuesday Wednesday Thursday Friday	9:00 AM - 1:00 PM 9:00 AM - 3:00 PM 6:00 PM - 9:00 PM 9:00 AM - 3:00 PM
Denton Branch Library 3000 Old North Road Denton, Texas 817-387-3506	Thursday Saturday	2:00 PM - 10:00 PM 9:00 AM - 1:00 PM
Dallas Stake Center 1019 Big Stone Gap Duncanville, Texas 214-709-0066	Tuesday Wednesday Thursday	9:00 AM - 9:00 PM 9:00 AM - 9:00 PM 9:00 AM - 5:00 PM
Fort Worth Stake Center 5001 Altamesa Blvd. Fort Worth, Texas 817-292-8393	Mon.,Fri.,Sat. Tues., Wed. Thursday	9:00 AM - 1:00 Pm 7:00 PM - 10:00 PM 9:00 AM - 5:00 PM
Plano Stake Center 2700 Roundrock Plano, Texas 214-867-6479	Tues., Thurs. Wed., Fri.	9:15 AM - 9:00 PM 9:15 AM - 5:15 PM
Hurst Stake Center 4401 N.E. Loop 820 Richland Hills, Texas 817-284-4472	Tue., Wed., Thur. Saturday	10:00 AM - 9:00 PM 9:00 AM - 1:00 PM

NOTE: If you want to use the computer you will have to call in advance to make reservations.

NAME	ADDRESS	CTY ST ZIP	PHONE NO	COMPUTER	GEN PGM
Corlyn & Henry Adams	4424 Ranch View Rd	Ft Worth, TX 76109	817 923-7010	IBM XT	
Paul Baclawski	5209 Anthony Ct	Arlington, TX 76017	817 572-1252	Mac	PAF
Juanita Baker	230 Swan Ridge Dr	Duncanville, TX 75137	214 296-5401	IBM	
Lathan Baker	2008 Turf Club	Arlington, TX 76017	817 465-5976	AT386	
Gene Banspach	1805 Smith Lane	Arlington, TX 76013	817 275-6607	IBM - MAC	PAF
W. A. Barker	821 West Oak	Denton, TX 76201	817 382-8057	IBM	Roots 3
James M. Barry	10531 Pagewood Dr.	Dallas, TX 75230	214 361-7932	IBM XT, Apple IIe	
Mike Basham	10352 White Rock	Dallas, TX 75234	214 348-1403	Toshiba Portable	Gensystems
Ellen Baskerville	2107 Von Hook Ct	Arlington, TX 76013	817 429-4507	IBM	Family Roots
Charles Bay	2213 Muse	Ft. Worth, TX 76112	817 451-9149	Dell 186	Roots 3
Pat & Guy Beatty	2219 Skylark	Waco, TX 76712	817 666-7614	IBM	Roots 3
Tom Bennett	2634 Cartwright	Irving, TX 75062	214 252-7187	IBM XT Clone	PAF
Judy Binder	2908 Charter Oak Dr	Plano, TX 75074	214 424-4857	TI PC	
Merald L. Binger	495 FM 875	Midlothian, TX 76065	214 775-2614		
Selby Blades	4217 Upland Way	Garland, TX 75042	214 276-5482	IBM Clone	PAF
Charles Blakley	211 Gatewood Circle W.	Burleson, TX 76028	817 295-5079	IBM AT	PAF BK FE FT
Jack Boisseau	2814 Nova Dr	Garland, TX 75044	214 530-6397	Mac SE	
Tom Bonfield	7411 Carta Valley Dr	Dallas, TX 75220	214 351-3229	IBM PC	BK
Sam Brady	2101 Westway	Garland, TX 75042-8347	214 276-3926	AT	Roots 3
Charles Briner	8924 Capri Dr	Dallas, TX 75238	214 348-3339	MAC	
Elvin E. Brown	810 Rock Canyon	Duncanville, TX 75137	214 298-9836	Mac II	
Richard E. Brown	909 Morningstar	Richardson, TX 75081	214 2319866	IBM AT	Roots 3
Michael Buntel	1402 Lakewood Dr	Sherman, TX 75090	903-868-9385		PAF
Craig Burden	3314 Wolfforth	Grand Prairie, TX 75051	214 264-7447		
Gene A. Burris	548 Blanco Dr	Mesquite, TX 75750	214 270-1802	IBM-PC	Family Roots
Claude Ray Burton	5319 Elkridge Dr	Dallas, TX 75227	214 388-5263	Tandy 1000sx	PAF
Charles L. Busby	4621 Catchin	Ft Worth, TX 76180	817 498-7045	AT Clone	PAF
Michael Butzel	1402 Lakewood Dr	Sherman, TX 75090	903 868-9385	IBM XT	
Don Callaway	2305 Club Meadow	Garland, TX 75041	214 840-2844	None	
Steve Carrell	530 White Oak	Allen, TX 75002	906 727-9760	IBM Clone	PAF
Daniel T. Carrier	15516 Mosscove Cir	Dallas, TX 75248	214 387-1463	XT Compatible	PAF
Alex Carson	1348 Hintor Rd	Plano, TX 75023	214 517-8844		Roots 3
Aurora & Bob Chancy	2404 Dalgreen	Plano, TX 75075	214 596-3567	Amiga & Toshiba	PAF
B. J. Claybourn	1117 S. Edwards	Dallas, TX 75062	214 255-4779	AT CLONE	BK
Earl Clements	13100 Pandora Dr #1401	Dallas, TX 75238	214 349-3979		
Charlie Cloud	1513 Marion Dr	Garland, TX 75042	214 276-0617		PAF
Leslie Collier	8727 Fawn	Dallas, TX 75238	214 341-5166	Tandy 1000	PAF
Chuck Crowson	4121 Arbor Crest	Balch Spring, TX 75180	214 357-0861	IBM XT	PAF, BK, FTM
E. C. Curtis	9548 E. Valley Ranch	Irving, TX 75063	214 401-2610	IBM	Family Roots
Mike Daugherty	2601 Courtside Lane	Plano, TX 75093	214 985-7762	NEC 386SX	PAF
R Davidson	80 Glen Knoll	Wylie, TX 75098	214 442-3661		
Charles Davis	1204 Shady Lane	Keller, TX 72648	817 379-6955	IBM Compatible	PAF
Charles & Barbara Davis	1204 Shady Lane Dr	Keller, TX 76248	817 379-6955	IBM Compatible	
Bob & Alta Derryberry	801 Carroll Dr	Garland, TX 75041	214 278-8937	Compac,Zenith 386	PAF, FTM
Mary Jo Dilks	16501 Amberwood	Dallas, TX 75248	214 941-8413	PC Clone	PAF
Alan S. Dodds	10533 Barrywood	Dallas, TX 75230	214 361-4990	IBM Clone	Family Roots
A. D. Donald	P.O. Box 38074	Dallas, TX 75238	214 348-1747		BK
Ralph Jr. Dosher	7127 Lakehurst	Dallas, TX 75230	214 369-3752		BK
William Dow	3309 Sam Rayburn	Carrollton, TX 75007	214 306-1596	AT Clone	Roots 3
Jack Downey	1010 Tanglewood	Arlington, TX 76012	817 274-3915	AT Clone	PAF
Mr/Mrs Timothy T. Downing	727 Hillcrest	Denton, TX 76201	817 382-3291	IBM Compatible	
Rocky Duke	3407 San Jacinto	Dallas, TX 77204	214 327-4701	IBM XT Clone	PAF, Roots 3
Dean D. Duncan	13135 Glenside Dr	Farmers Branch, TX 75234	214 484-0066	IBM PC	

NAME	ADDRESS	CTY ST ZIP	PHONE NO	COMPUTER	GEN PGM
Don & Lou Dyer	13318 Blossomheath	, TX 75240	214 239-2485	IBM	
Gerald Dyer	1313 N Floyd Rd	Richardson, TX	214 234-6590	IBM	
Lawrence & Roberta Dyer	905 Waterview Cr	Richardson, TX 75080	214 235-6380		
Eldon Eason	2006 Stafford Dr	Arlington, TX 76012	817 275-3690	IBM Compatible	Roots 3
Jim Eason	2811 Rio Grande Pass	Mesquite, TX 75150	214 686-5135	IBM	Roots 3
Effie & Eugene Eisen	309 Wildflower	Grand Prairie, TX 75051	214 264-5483	Victor (IBM comp)	PAF
Fairbrother, Ron	2926 Deep Valley Trail	Plano, TX 75075	214 867-2866	IBM AT Clone	Family Edge +
Frances Faulhaber	8804 Triton Ln	Dallas, TX 75227	214 381-3346	IBM	PAF
Phil & Sue Faulkner	4421 Mendenhall	Dallas, TX 752[illegible]	214 239-0561	IBM Compatible	PAF, BK
Egan Foy	3227 High Brook	Dallas, TX 75234	214 620-8088	IBM	PAF
Donald W. French	9518 Fieldcrest Ct	Dallas, TX 75238	214 348-8879	AT Clone	PAF, BK
Lynn E. Fussell	435 Crestover Cir.	Richardson, TX 75080	214 235-5573	386 Clone	PAF/FR
Hallie Garner	8923 Woodshore	TX 75243 Dallas	214 349-3869	IBm	Family Tree
A. E. Jr Greer	1004 Windmill Ln	Irving, TX 75061	790-3318		
Gordon Guy	P.O. Box 764252	Dallas, TX 75376-4252	214 330-9388	AT Clone	
Dan Haddock	3120 Satsuma Dr	Dallas, TX 75229	214 247-3350	IBM Clone	PAF
Rolan Hall	6032 Teton	Mesquite, TX 75150	214 279-1767	TI PC	Family Roots
Hance H. Hamilton	9962 Larchbrook	Dallas, TX 75238	214 348-6204	Compaq 386	Fam Hist sys
Doug Harper	1117 Delaware St	Irving, TX 75060-6054	214 438-3786	IBM	
Vernor G. Harris	4022 Brookmoor Dr	Arlington, TX 76016	817 457-7261	Tandy AT	Roots III
Robert Hazzard	837 E Woodglen Dr	Copper Canyon, TX 75067	817 455-2813	IBM	
Robert L. Head	210 Walnut Way	Euless, TX 76039	817 267-0943	AT Clone	PAF
Carroll F. Herriott	7651 E Parker Rd	Lucas, TX 75002	214 442-1399	AT Clone	PAF,BK,Roots3
Leonard & Peggy Higdon	Rt 2 Box 158	Mansfield, TX 76063	817 473-9819	Apple IIc	
Paul R. Hinrichs	2317 Meandering Way	Arlington, TX 76011	817 461-6126	IBM XT	BK
John G. Hirschy	318 Edgewood Dr	Coppell, TX 75019	214 462-0549	AT Clone	Roots 3
Susan Holman	3408 Parkridge	Corinth, TX 76205	817 497-3375	IBM	PAF
Jerry Hook	4601 Lawler Rd	Garland, TX 75042	214 276-7991	Lucky Star 286	PAF
Val D. Hubbard	7509 pacific	Rowlett, TX 75088	214 475-4392	AT Clone	
Ken Hughes	718 Oakwood Trail	Ft Worth, TX 76112	817 496-3650	PC Clone	PAF
Mattie L Hughes	6417 Danbury Ln	Dallas, TX 75214	214 361-4405		Roots 3
Roberta Isley	4020 Rosser Sq	Dallas, TX 75244	214 243-0455	IBM	PAF
Susan Jackson	11215 Pelican Dr	Dallas, TX 75238		Mac IIsi	Reunion
Katherine Johnson	716 S Story Rd #1069	Irving, TX 75060	214 254-9047		Family Edge
Owens G. Jr Jones	1027 W. Morgan	Denison, TX 75020	903 465-9580	XT Clone	
Ann Ruth Jones	P. O. Box 172	Cleburne, TX 76033	817 645-7938	IBM	PAF, BK, FR
Joyce Jones	2504 Banner Elk Cir.	Plano, TX 75025-2111	214 618-3717	NEC386	Family Roots
Owen G. Jr. Jones	1027 W. Morgan	Denison, TX 75020	903 465-9580	IBM XT	PAF
Paul E. Jones	2451 Crestridge Drive	Dallas, TX 75228	214 327-4819	Tandy TX1000	
Tom Jones	411 Northview Dr	Richardson, TX 75080	214 235-0754	AT Clone	PAF
Hilton Kennedy	2516 Glencliff	Plano, TX 75075	214 596-2678	386 SX	
Harold Krom	P.O. Box 670651	Dallas, TX 75367	214 233-9091	IBM	
Richard Larson	803 Viasonoma	Mesquite, TX 75150	214 270-0340	Tandy 1000	Enhanced Fam
Barbara Lawrence	P.O. Box 45231	Dallas, TX 75245	214 380-0922	Compaq 386	PAF/BK
Sandra Lewis	1225 Gardengate	Garland, TX 75043	214 840-1067	IBM	PAF
Ron Lipsey	2417 Newcastle	Garland, TX	214 278-9044	AT Clone	
R. D. (Dick) Liverington	1621 Aldridge Dr	Plano, TX 75075	214 424-7664	Zen TurboSport386	PAF
James Lochabay	2137 Village Green	Garland, TX 75044	214 495-4708	XT	
Jack Lundberg	2912 Loch Haven	Plano,TX 75023	214 596-8160	IBM Clone	PAF
John Mackay	909 Cordell Dr	DeSoto, TX 75115	214 223-0333		
Carol Mann	900 Lakeland	Mesquite, TX 75149	214 285-6258	IBM	Family Edge
James Martin	Rt 5 Box 5166	Athens, TX 75751	903 675-6072	AT Clone	
Leonard J. McCown	217 W. 14 St	Irving, TX 75060	214 254-7952	IBM Clone	Family Roots

NAME	ADDRESS	CTY ST ZIP	PHONE NO	COMPUTER	GEN PGM
Olus, Jr McNatt	2201 Homestead Place	Garland, TX 75044	214 495-0723	IBM AT	PAF, BK
Shirley Moncrief	5011 Bay View	Garland, TX 75043	214 240-7468		PAF
George J. Montgomery	10745 Cotillion Dr	Dallas, TX 75228	214 279-1376	Mac & IIcx	PAF
Cheryl K. Moore	3112 Odessa Ave	Ft. Worth, TX	817 923-2556		
Travis D. Morris	Rt 6 Box 716	Cleburne, TX 76031	817 645-0617	Tandy 3000	PAF, BK
Clayton (Rosy) Morrow	4025 Inwood	Dallas, TX 75209	214 239-0341	AT Clone	
Edgar Mouritsen	4739 Harvest Hill Rd	Dallas, TX 75244	214 239-7408	Zen 386	
Lucille Murray	6764 E. NW HWY	Dallas, TX 75231	214 343-2955	CompuAdd	PAF
Biddy O'Dwyer	4521 Edmondson	Dallas, TX 75205	214 521-2228	Mac+	
Jeanne B. O'Dwyer	4521 Edmondson	Dallas, TX 75205	214 521-2228	Mac +	Family Roots
Alfred Davies Olson	1513 Cobblestone	DeSoto, TX 75115	214 296-7520	IBM XT	PAF
John Ove	707 Shannon Lane	Highland Village, TX 75067	214 317-0829	IBM	PAF
Dan Parker	300 N Cheyenne Crt	Irving, TX 75062	214 255-7738		
Gerru Peterson	706 Irish Glen	Arlington, TX 76104	817 467-4239	XT Clone	
Tom Poole	4212 Early Morn Drive	Plano, TX 75093	214 867-8238	XT, 486	PAF
Robert Pope	4011 W. Plano Pkwy #104	Plano, TX 75093	214 969-8801	Compaq	PAF
Earl & Jean Price	2413 Lofton Terrace	Ft. Worth, TX 76109	817 924-7990	Tandy 1000	
Don Raney	1506 Comanche	Garland, TX 75043	214 278-3381	IBM XT Clone	Roots III
Jim Rash	3610 Townsend Dr	Dallas, TX 75229	214 358-5191	PS/2	Roots III
W. T. Van Ravenswaay	3717 Hillwood Way	Bedford, TX 76021		Hyundai	
Dennis Recla	201 Lucinda	Garland, TX	214 276-6833	IBM	Family Edge
Marianne Reiter	3056 Albany Dr.	Mesquite, TX 75150	214 279-3923	Mac	
Tom Rex	2414 Parkside	Garland, TX 75040	214 495-1354		
Jonathan Riba	1009 Whipperwill Ct.	Arlington, TX 76014	817 274-5782	XT	PAF
Susan Rivers	2017 Sword	Garland, TX 75044	214 414-0721	T1000	
Dorothy Nash Roberts	2733 Runningbrook Lane	Dallas, TX 75228	214 328-4973	XT Clone	PAF, TFE, BK
Ken Roy	3301 Raintree Dr	Plano, TX 75074	214 422-1633	AT Clone	
Charles Rriner	8924 Capri Dr.	Dallas, TX 75238	214 348-3339	Macintosh	
Art Rubeck	101 Wellesley Dr.	Irving, TX 75062	214 255-2642	IBM & T1000SE	PAF, BK
Bob Rusby	915 Beechwood Dr	Richardson, TX 75080	214 234-2884	MAC	PAF
Joe Ryals	4133 Gardner Dr.	The Colony, TX 75056	214 370-8819	AT Compatible	
Mike Sample	2704 Corby Dr	Plano, TX 75025	214 618-3629	PC Clone	PAF
Jim & Ruth Sanders	11833 Duxbury Dr	Dallas, TX 75218	214 348-0657	IBM Clone	Roots 3
Al Sanford	1104 Carroll Dr	Garland, TX 75041	214 278-7888	AT Compatible	PAF
Helen J. Sanford	4417 Shenandoah	Dallas, TX 75205	214 521-1523		PAF
Joe Schlebach	RT 2 Box 175	Ennis, TX 75119	214 875-6861	NEC 286	Roots III
Bill Schneeberg	2922 Country Club Rd	Garland, tX 75043	214 278-2851	TI Pro	
Ann Schreiber	10832 Steppington	Dallas, tX 75230	214 363-8740	IBM 386	
Emily M. Seay	6939 Joyce Way	Dallas, TX 75225	214 369-7200	386SX	PAF
Judi Sheffler	4145 Woodland Ct	Grapevine, TX 76051	817 283-9525	Apple	Family Roots
Ben Shepherd	4500 Clarendon	Dallas, TX	214 339-8424		PAF
Jay & Marilyn Sietsema	15409 Cypress Hills Dr	Dallas, TX 75248	214 661-0296	IBM	Roots 3
Kathy Singleton	8811 Crestview	Frisco, TX 75034	214 335-9622	IBM clone	Roots III
Joe Sissom	3500 Gentry	Irving, TX 75062	214 650-9026	IBM Clone	Family Edge
F. Gilbert Smith	822 Creekridge Dr	Dallas, TX 75218	214 348-7734		
Ronald L. Snow	5816 Logancraft Dr	Dallas, TX 75227	214 381-3726	IBM Compatible	PAF, BK
Jeri Steele	PO Box 110480	Carrollton, TX 75011	214 306-1596	AT Clone	Roots 3
Jimmy C. Stribling	5934 Glen Heather	Dallas, TX 75252	214 733-0978	Wang	Roots
David Strickland	1022 Terrace	Carrollton, TX 75006	214 245-2068	IBM Clone	BK
Ken Stubbe	3208 San Simeon	Plano, TX 75074	214 618-0038	386sx	
Robbie Sutlive	Rt 1, Box 288	DeBerry, TX 75639	902 693-5010	TRS-80, model 100	
Denne Sweeney	224 Ridgewood Dr	Ferris, TX 75125	214 544-2722	AT Clone	
Delbert & Pat Taylor	2621 Brookhollow	Denison, TX 75020	214 465-7170	Sperry	PAF

NAME	ADDRESS	CTY ST ZIP	PHONE NO	COMPUTER	GEN PGM
Larry Taylor	Box 292368	Lewisville, TX 75029		AST 386/16	Roots III
Ken Teeple	1330 summit	Mesquite, TX 75367	214 285-8529	Tandy TL	PAF
C. Victor Thornton	P.O. Box 136396	Ft Worth, TX 76136	817 237-5612	Compac 286	PAF
Jim Thurmond	6705 Kingsbury Dr	Dallas, TX 75231	214 348-3723	IBM XT	PAF FTMak EFT
Charles Tipton	2009 Westshore	Garland, TX 75043	214 271-1461	IBM PC	
Anne Tricket	14833 Spring Creek Rd #110	Dallas, TX 75248	214 661-3690	IBM	Roots III
Carl Troyer	3623 Pebble Beach Drive	Dallas, TX 75234	214 241-5777	IBM PC	Roots III
Tom Vogt	2500 Ridgemoor Ct	Arlington, TX 76016	817 496-3809	IBM	Family Ties
Robert D. Von Tress	4718 Mill Run	Dallas, TX. 75244	214 458-9058	IBM	
Joe Waldrop	6905 NE Loop 820 #111	N Richland Hills, TX 76188	812 498-5856	386/20	PAF/BK
R. A. Walker	4673 Old Spanish Trail	Dallas, TX 75211	214 330-8738	Tandy 1000	Family Roots
John Walters	505 Goodwin Dr.	Richardson, TX 75081		IBM Clone	
Patsy Walters	7205 Indian Ridge	Dallas, TX 75232	214 224-4852	IBM	
Mary Reid Warner	6110 Misty Tr	Dallas, TX 75248	214 233-9248	IBM XT	PAF
Jim Wehe	9730 Maplehill Dr	Dallas, TX	214 341-1143	PC Clone	PAF
David & Naomi Welch	13046 CR 168	Flint, TX 75762		IBM Comp & Epson	
Marteal Wells	4522 Abbott #2	Dallas, TX 75205	214 559-0454	NEC 286	
Fulton J., Jr Welsh	258 Westview Terrace	Arlington, TX 76013	817 469-1873		
John H. Whipple	1508 Bluebonnet Trail	Arlington, TX	817 274-7176	IBM	
Robert L. Whiteside	10034 Copperidge	Dallas, TX 75229	213 351-4905	Compac, Tandy1000	
A. C. Williams	1685 Plummer Dr	Rockwall, TX 75087	214 771-5474	AT Compatible	PAF Roots III
Elizabeth Willson	1328 Comanche Dr	Richardson, TX 75080	214 690-9898	IBM	PAF
Pat Wingate	3843 Echo Brook Lane	Dallas, TX 75229	214 902-0663	IBM Clone	
Nina Winters	704 Lamar	Euless, TX	817 267-6986	Kapro 4	
Dennis Wolden	9930 Chireno	Dallas, TX 75220	214 351-3229	IBM AT	Family Edge
Ed Wolfram	2700 Monterrey St	Arlington, TX 76015	817 275-3232	Mac	
John Woodward	2228 Southern Circle	Carrollton, TX 75006	214 416-7877	Zerox 6060	PAF
John Wylie	3034 High Plateau Dr	Garland, TX 75044	214 495-4410	XT	PAF Roots III
Rob Yoder	P.O. Box 170717	Arlington, TX 76003	817 535-7931	AT Clone	PAF, BK
Susan Younger	6411 Howard	Dallas, TX 75227	214 381-5156	IBM Clone	Roots III,PAF
Dick Zepeda	2917 San Diego	Dallas, TX 75228	214 270-9798	286	PAF,BK