



North Texas PC Users Group

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North Texas PC NEWS
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Deadline:

All material for publication in North Texas PC NEWS (articles and ads) must be received by the NEWS staff no later than the 15th of the month.

Articles:

Please do not right-justify, indent or otherwise code the copy. If column alignment is critical, send along a hard copy, or written instructions. Article submission is preferred by NTPCUG BBS, Startext MC 51563, or disk in ASCII format, unjustified. If you send a disk, please include a printed copy of the article to assure accuracy. If sending to the User Group Bulletin Board, use mail mode, to John Pribyl. Double spaced, type-written copy is acceptable but must be received a week before the deadline.

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DEADLINE
Copy deadline for October
NT PC NEWS:
Tuesday, September 15th.

Meeting Dates:

Sept. Meeting - 2nd Sat. (12th)
October Meeting - 2nd Sat. (10th)
November Meeting - 2nd Sat. (14th)
December Meeting - 3rd Sat

Editor's Notes...

Way Out!

This is really reaching into the future. If you have the aspirations and qualifications to be president of North Texas PC Users Group, this is your last chance to get in before the 1990's. That is a sneaky way of saying elections are coming up and we need to prepare for our "guiding light" (president, that is) for the year 1989. In January we will be electing a president-elect and three members of the Board of Directors for 1988. As stated in the bylaws, we select the president-elect who serves for one year in that capacity before he becomes president the following year. It's time for the nominating committee to begin canvassing likely candidates for these positions.

Ventura Publisher.

It's unfortunate that Xerox did not make Ventura Publisher 1.1 100% backward compatible. Especially when you have Version 1.1 and your printer only has Version 1.0. I make up the pages on screen at home, copy to disk, take the disk to Laser Kopy, remake the pages using 1.0, and then print a set of repro pages. Can't go back to Version 1.0 on my PC, and I don't want to - 1.1 is so much better. I had to turn in the installation disk to get the update. Trials and tribulations of the typical newsletter publisher... I wish someone would donate a laser printer to the Group! (Contact me if you're so inclined...)

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September 12

Charles Kroboth, Program Director

9:00 AM to 9:45 AM

Not determined at press time. Check the overheads in the lobby at Infomart.

10:00 AM to 11:00 AM

AUDITORIUM

*** PARADOX ***

Featuring Network PARADOX 2.0, Relational Database for the LAN Environment. People from ANSA will demonstrate the product with heads-up comparisons to major competitors.

Prez Sez...**Bulletin Board Moves.**

We moved the bulletin board in late August. It can now be accessed by two metro numbers. That means that you can call it toll free from any place in the Dallas - Ft. Worth area. Outside that area, you will have to use the 817 area code prefix.

We are using the multitasking features of our BBS software to service two lines at once. We felt that two lines were necessary since almost 500 members have signed up for access to the bulletin board.

User Group Phone Number.

(214) 746-4699.

We have a telephone number that is answered 24 hours a day by the voice messaging system at INFOMART. The number gives a brief description of our user group and the dates of upcoming meetings.

December Meeting.

Just another reminder. The December meeting will be on the third Saturday, not the second Saturday.

Children at INFOMART.

One of our conditions for meeting at INFOMART is that we abide by their rules. One of those rules is that children and young adults up through the age of 16 be accompanied by an adult at all times. I realize that this may work a hardship on some of our younger members but we need to follow the rule if we wish to continue meeting at INFOMART.

Volunteers and Appointments.

One of the duties of the president is to appoint people to some of the more important positions in the group. As you might imagine, it takes a lot of work to make sure everything goes smoothly at our meeting. July and August are traditionally the months when our volunteers begin to feel tired and ask to be replaced.

Here are the changes we've made during the past two months with more to come:

Kathryn Crawford is replacing Tim O'Neil as Disk of the Month Manager.

Tim O'Neil is assuming the job of Advertising Manger for the Newsletter.

Tai Tsou is replacing Andrew Chalk as Group Purchase Manager.

Connie Testa is assuming the duties of Group Statistician.

Maggie Moomey is the new assistant SYSOP for the BBS.

Fred Williams and Pete Testa have volunteered to be the SYSOP's technical advisors.

We currently have close to 1300 members. We have spent the last couple of months trying to divide the work into smaller pieces so that each job isn't so demanding. I appreciate those of you who have told me that you'd like to fill a position with the group. We're always thinking about ways to spread the work around.

The area that needs the most help right now is the newsletter. John Pribyl has written some job descriptions for people to help get the newsletter out. Please give John a call or leave a message for him on the BBS if you would like to help.

Vendors.

In addition to being president of the NTPCUG, I am also the treasurer of the Computer Council of Dallas. The CCD is made up of the groups that meet at INFOMART on Saturday. The CCD is the organization responsible for renting the INFOMART and paying the bills.

Almost all of the income of the Computer Council comes from the tables that it rents to the vendors who sell things in the basement of INFOMART. Recently the number of vendors had dropped off.

Please go down to the basement during our next meeting and see what they have to offer. When you buy something from one of the vendors, you are indirectly helping us to pay our rent.

Jim Hoisington



**North Texas Personal Computer
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.

Board of Directors

Jim Hoisington, Chairman Jim Graham
Reagan Andrews Stuart Yarus
Kathryn Crawford

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 issue, and send it with \$24 membership dues to the Membership Director whose address is shown at the bottom of this page. 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.

Officials

President - Jim Hoisington (214)416-3101 h	Secretary - David McGehee (214)681-0202 h
President-Elect -	Membership Dir. - Bob Russell (214)422-4269 h
Reagan Andrews, Ph.D. (214)828-0699 h	Disk of the Month - Kathryn Crawford
Program Chair. - Charles Kroboth (214)746-5335 w	Group Purchases - Tai Tsou
Treasurer - Joe Brophy (214)891-8187 w	Group Statistician - Connie Testa

Special Interest Groups

SIG Coord. - Phil Chamberlain (214)243-5034 h	Pers Fin Plan - Michael Stoddard (214)363-4200 w
APL - Jim Fiegenshue (214)539-9281 h	Programmers - Neil Bennett, Ph.D. (214)517-6854 h
Artificial Intel. Jim Bender (214)423-3470 h	Science/Engr. - Sam Leven (214)991-7642
Astrometry - Arlin Collins (214)351-5137 h	- David Lamb (214)931-3068 h
Assembler - Neil Bennett, Ph.D. (214)517-6854 h	Turbo Pascal - Warren Ferguson (214)692-2506 w
BASIC Applic - Ross Carter (214)238-8638 h	
Beginners - Gordon Baskett (214)247-1873 h	BULLETIN BOARD SYSTEM - 461-0425 (Metro)
Business Applic. Bruce Schubert (214)991-5967 w	461-0506 (Metro)
Enable - Jack Lundberg(214)596-8160 h	SYSOP: - Tom Prickett (voice) (214)690-9087
- Susan Watts (214)416-0077 h	Asst. SYSOP. - Maggie Moomle
C Language - Sid Nolte, Ph.D. (214)233-6178 h	Technical Advisors: Fred Williams
Communications - Fred Williams (214)492-1315 w	Pete Testa
Databases - Chris Morgan (214)746-5335 w	
- Bob Monaghan (429)3245 w	Address Changes, etc..
DBase - David Hayden (214)380-8172 h	Payment of dues, address changes, and inquiries about
DOS - Jim Hoisington (214)416-3101 h	membership should be directed to
- Reagan Andrews, Ph.D. (214)828-0699 h	NTPCUG Membership Director
Genealogy - Minnie Champ (214)341-6507 h	135 Skyline Drive
Graphics - Mike Durbin (214)271-8779 h	Plano, Texas 75074
Hdw Solutions - David McGehee (214)681-0202 h	
LOTUS - Peyton Weaver (214)462-0552 h	(Check newsletter mailing label for your renewal date..)
- Mark Gruner (214)373-3147 h	

Bulletin Board News

Greetings from the NTPCUG Sysop



By the time you read this, the BBS should have been relocated to a new site, and new telephone numbers:

METRO: 461-0506
 METRO: 461-0425

The lines are Metro lines which are a local call from the Dallas (214) and Fort Worth (817) area code. If you are calling long distance the lines are in the (817) area code.

Thanks to Maggie Moomey who has agreed to be the BBS site manager and thus sharing our Sysopness. This is a very good trend, and I would like to see more of it in the future, the work is too overwhelming to be done by any single volunteer.

If you are not registered, by all means do so. It comes free with your membership to the NTPCUG. You can register at any meeting by putting your name on a sign-up sheet that is at the IBM information booth when you enter InfoMart. If you are unable to make the meeting, there are other alternatives to get you to sign up.

mail registration:	voiceregistration:
-----	-----
109 Spanish Village, #603	(214) 690-9087
Dallas, TX 75248-4486	nights & weekends

When I get your request, I will verify that you are currently a member, and mail a postcard to the address listed on our membership mailing list. This will have your name and password that will be used to sign on to the board. (You are encouraged to change your password soon after you get it, and whenever you think it might have been compromised. Ed.)

After you sign-on, there will be a short bulletin, and you will begin BBS operations at the main menu:

NTPCUG Bulletin Board

===== Main Menu =====

- Enter
- I --- (I) nformation on NTPCUG and other events
- M -- (M) ail and conferencing
- D -- (D) ownload files
- U --- (U) pload files
- H --- (H) ang up and terminate session
- =====
- C --- (C) omment to Sysop
- E --- (E) xpert mode select (terse)
- N --- (N) ovice mode select (full screen)
- P --- (P) rofile changes

Enter letter for selection: m

One of the more dynamic areas is (M)ail and conferencing. It allows us to talk to each other. You can send mail to an individual or a conference. If you select M as shown above, you get:

Please wait...

-- Mailbox Status --
 There are 3 messages in your mailbox.
 New messages: none

(L)ist (R)ead (S)end (D)ump (K)ill (O)pen (W)ho
 (Q)uit (H)ang or (?): ?

You can usually get context sensitive information by selecting a ?:

NTPCUG Bulletin Board

===== Mail Menu Help =====

- L - List message numbers with subject, sender's name and date sent
- LS - List message numbers with selection criteria
- R - Read messages
- RS - Read messages with selection criteria
- S - Send messages to another mailbox
- D - Dump messages using XON/XOFF protocol with no pausing between messages
- DS - Dump messages with selection criteria
- K - Kill (delete) messages
- O - Open another mailbox, possibly a conference or group mailbox
- W - Who: lists names of other members, conferences or mail groups
- Q - Quit mail system and return to main menu
- H - Hang up the phone, ending your bulletin board session

Choose "N" if you do not need more information.
 Choose "Y" if you want more specific information

386 Power at an AT price

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Advanced Logic Research brings
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able 386-based systems.*

- PC Tech Journal

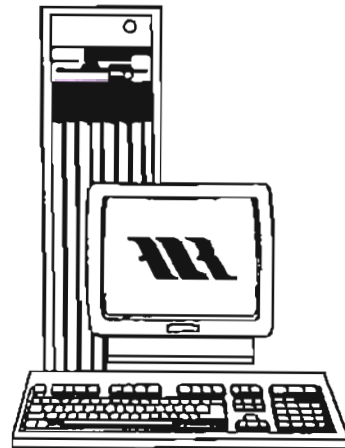


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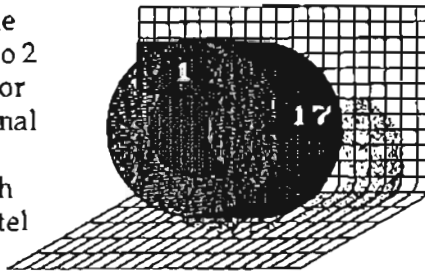
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-More (Y/N) ? n

This article will show you how to (O)pen a mailbox containing conference messages:

(L)ist (R)ead (S)end (D)ump (K)ill (O)pen (W)ho (Q)uit (H)ang or (?): o

Open which mailbox ? (<Enter> quits, ? lists): ?

(C)onferences (G)roups (S)ubscribers (A)ll (Q)uit or (?): c

Our BBS is evolving. We now have over 400 registered members, and this number grows every meeting. More important than that is its usage. That too is going up. We are growing a message base and are expanding our list of conferences. As of this date (15th deadline as usual), we are listing the following conferences:

Name	Description	Msgs
All	Messages of general interest	4
APL SIG	A Programming Language	0
BOD	NTPCUG Board of Dir	0
Hardware Ads	Hardware for sale	8
Software Ads	Software for sale	10
BBS Directions	Suggest box for SYSOPS	15
DOM	Disk of the Month-Info	13
AI SIG	Artificial Intelligence	2
Astrometry SIG	Calculation of Astrometry	0
Assembler SIG	Intel Assembly Language	5
Beginners SIG	Introduction to PC's	3
DOS SIG	Disk Operating System	37
Business SIG	Comp business application	7
Comm SIG	Comp Communications	10
Database SIG	Database Mgt Systems	9
BASIC SIG	BASIC Programming Lang	0
Genealogy SIG	Comp Genealogy Applic	7
Graphics SIG	Comp Graphics Applic	2
Lotus SIG	Lotus 1-2-3 and Symphony	0
Programmer SIG	Adv. program. scuttlebutt	10
Science SIG	Science and Engineering	0
Pascal SIG	Turbo Pascal Language	7
C SIG	"C" Programming Lang	22
Enable SIG	Enable Software Users	1
FORTTRAN SIG	FORTTRAN Program Lang	0
Hardware Wanted	People wanting to buy hdw	5
Software Wanted	People wanting to buy sftw	1

You will be able to select by number or by name.

Open which mailbox ? (<Enter> quits, ? lists):
comm sig

-- Mailbox Status --

There are 10 messages in mailbox for: Comm SIG

(L)ist (R)ead (S)end (D)ump (O)pen (W)ho

(Q)uit (H)ang or (?): r

Read (A)ll, (N)ew or (S)elected messages or (Q)uit): s

Enter message number(s) to read (<Enter> quits):
9-10

Message # 9 From: Kermit Frog Sent on: 08/05/87
Subject:

Would you like to read this message (Y)es (N)o (Q)uit ? y

Does anyone have 'good' experience with some hardware/software combination that supports TCP/IP via an Ethernet link? Further, IS IT A SOLUTION YOU'D RECOMMEND to a relatively novice sort of user?

Any info would be greatly appreciated. Thanks.

(R)eply (C)ontinue or (?): C

Message # 10 From: Joe User Sent on: 08/09/87
12:14 pm
Subject: Sample message

Would you like to read this message (Y)es (N)o (Q)uit ? Y

This is a totally non-controversial un-opinionated message that you will find on almost every bulletin board.

(R)eply (C)ontinue or (?): r

Reply to:
(1) Joe User
(2) Comm SIG
Select (1-2): 1

Do you want to (S)end a file, (T)ype a message or (Q)uit ? t

Message may contain up to 75 lines of 60 characters each. Press <Ctrl-z> or enter END to end message.

- 1: I agree.
- 2: I'll keep looking.
- 3: end

Reply to message 10
(A)dd (C)hange (D)elete (I)nsert (L)ist (S)end (Q)uit or (?): s

Send message to Joe User (Y/N) ? y
Message has been sent to Joe User

This is one way you could reply to a message sent by another user that could be sent either directly to the user or included as one of the messages in the conference. The message can be sent somewhere else.

Send another copy to ? (<Enter> quits, ? lists):

(A)dd (C)hange (D)elete (I)nsert (L)ist (S)end
(Q)uit or (?):

These are some primitive editing commands you can use to further modify and (S)end to other users or groups. When you are finished, you (Q)uit.

We encourage you to try this new form of talking to other members and getting some questions answered. Send me some mail and tell me of some topics you would like to see discussed in future articles.

If you are interested in other BBS's in the DFW area, a fellow named Dave Crane keeps a list up to date so you don't have to weed out the old numbers on your own. This list can be found in the Comm SIG.

Tom Prickett 

Computer Council of Dallas NEWS

John Pellet

August, 1987

The July and August User Forums were slightly less crowded than expected. Attendance, both vendor and member, appears to be suffering some summer doldrums. But not enough to make parking easy.

At the August forum, 45 vendor tables were sold, plus 14 tables were used by affiliates. CCD needs new vendors. Remember, they are what pay the rent. So if your favorite retailer isn't there, let him, and us, know about it.

The reduced table rentals has caused CCD to operate at less than break-even for the last two months. If revenues (number of tables rented) do not increase, CCD may be forced to levy fees against affiliates.

Each User Forum contains over 100 individually scheduled meetings. The hours of 9 AM and noon are the busiest. They have become so busy that groups using several rooms at 9 AM will be asked to move at least one of their SIGS from the 9 AM hour. Noon also is a busy

time. If you can schedule your meetings at other than these two times, CCD scheduling will be easier.

PLEASE remember that unattended minors (under 16 years old) are NOT permitted by INFOMART. Families are very welcome, but children should not be left unattended. Please register minor children when you enter so that you may be contacted if a problem does occur. This is a necessary commitment by CCD and each affiliate to use INFOMART's facilities. Please act accordingly.

Two organizations were made full affiliates at the August CCD board meeting: the Chinese Information Resources Association and the North Texas Association for Artificial Intelligence. Additional information about each group is available from any CCD Representative.

Unfortunately, the MIDI group is no longer affiliated with CCD. The group would not meet the simple rules necessary, nor even make someone available to answer questions. Their CCD affiliation was reluctantly terminated at the July board meeting.


Volunteers are urgently needed during both setup and breakdown. If you happen to arrive early (before 9 AM) or stay late (after 4 PM), drop by the Information Booth and see if you can help. It doesn't take too long, or involve much effort, but would be greatly appreciated. Affiliates have been requested to provide one or two volunteers on a rotating basis to help. At the September User Forum, the TI-Home group will help with setup, and NTPCUG (IBM...) will help with breakdown.

Dal-ACE (Atari) announced that they would be having a swap meet after the September business meeting. Emphasis will be on Atari related computer products. There will be a nominal fee for table space. Visitors and guests are very welcome.

Dal-ACE also announced they would be sponsoring a Toys for Tots benefit in December. It probably will include games, door prizes, and an auction. Admission and all proceeds will be donated to the Toys for Tots charity.

SCOPE (Commodore) announced that they are planning a major show in March of 1988, hopefully to coincide with the March User Forum. Details as they become available.

Meeting dates for the next three months are: September 12, October 10, and November 14. See you there!

john pellet mc92019 

Cries, Whispers, Sighs and Curses -- Conversations deep in the Night

A Brief Primer on Telecommunications

by Reagan Andrews, Ph.D.

I probably passed Skaggs' Romance-Book racks just once too often while assembling this series. Somehow, my title seems to be more descriptive than "Telecommunicating with the Personal Computer." More about that later.

This is the first installment in a series of articles that will deal with a description of modern modems, overview of communications software available, and terminate with a brief guide to installation and use of the various hardware and programs. Technical details will be passed through Club "experts", mainly Pete Testa and Fred Williams, Communications SIG Leader, for accuracy and clarity.

Beginnings: Ancient History -- circa 1983

The following is a brief account of how otherwise normal (mostly) computer users can become addicted to communicating via the personal computer. Hopefully, it may serve as a partial warning and/or guide to others contemplating joining the telecommunications revolution.

We joined the North Texas IBM Personal Computer Users Group (now NTPCUG) in December, 1982 and purchased our first, current and only PC in March 1983. Shortly afterward, one of our neighbors converted his on-line bookkeeping - accounting practice clients from 300 to 1200-Baud operation. He had a stack of "old", line-powered, originate-only 300-Baud modems leftover and offered me one for \$50. I took it.

Primarily, I intended to access the Hospital's computer to check on patient admissions and discharges over weekends, to leave messages for co-workers and read my messages from other staff during vacations, etc. Although I was aware of commercial database and information services, and their possible utilization for

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Almanac, Inc., 214/231-8735.

bibliographic searches, I was unaware of RBBS's and their potential.

Before I could do anything, I had to get on-line. The "new" modem came in a pretty blue case with a single LED indicator and switch on its front panel. The user had to manually dial the desired number via telephone, wait for the modem "answer" signal from the other end and then switch the modem on line. (That's pretty close to bare minimum functionality.) This, I could handle.

Communications software was needed. NTPCUG's December, 1982 Disk of the Month (DOM) -- sold from a small box held in Will Janoshka's lap -- included *PC-Talk* which was written in IBM (interpreted) Basic and highly acclaimed by several Club members. (*PC-Talk's* author, Andrew Fleugelman, is usually credited as the originator of the "Freeware" or user-supported software concept.)

PC-Talk's program and documentation files together totaled less than 80K. (Compare this with *GT PowerComm*, a two-diskette, "archived" communications program currently offered as a Club DOM.) I read, then re-read the 14 pages of documentation for *PC-Talk*. It seemed awfully complicated. I wanted something simpler -- and easier to use.

IBM's "Free" Communications Program

I remembered *COMM.BAS*, a file included with PC-DOS 1.1's "Supplemental Programs". *COMM.BAS* is nothing more than a very, very simple communications/terminal emulation program that is completely manual. (It still comes with some versions of PC-DOS & GW-BASIC.)

It looked simple and didn't keep flashing *PC-Talk's* "Make sure your modem is connected" message at me. It worked. It still does. I used *COMM.BAS* (probably out of some nostalgic impulse) to dial the Club BBS and read my mail as this series was being planned.

COMM.BAS and 300-Baud were fine for my planned application of calling the Hospital and reading simple text files.

Siren Call of Free BBS Software Leads to Doom

Another Club member and real technical GURU, Jim Rich, began talking at meetings about the latest disk-utility programs he was using. As he described them, I began to want them. They were available, he promised, easily through several local RBBS's (Remote Bulletin Board Services -- often just "BBS") and "free for the taking." This latter was very interesting since we were beginning to realize how much we were spending on software for the PC.

I logged on the BBS's he suggested and entered a new world -- a lot of which initially seemed booby-trapped and mined.

Logging on was easy. I already knew the answer to "What's your First Name?" My Last Name was easy too, as were my address and telephone number. Thinking up an appropriate password wasn't too difficult either.

What to do after that was much more complicated. Exploration is fun -- if you don't think anyone else is watching your mistakes. I never was sure about being watched by some amused or irate SYSOP (System Operator -- the person who runs the RBBS), but made a number of very basic operating errors anyway. One of the BBS's, Dave Crane's Dallas RBBS-PC, had a "Help" file on using his (and other) RBBS's.

Simple Software Has Limitations

There was only one problem. *COMM.BAS* didn't/doesn't have either "capture" or downloading capabilities so that I could get the "Help" file and study it at my leisure. (This isn't exactly true -- several suggestions for "merge" files adding downloading capabilities were published in *SoftTalk*, *PC Magazine* and on DOM's, but never worked for me.) If I wanted to continue this pursuit, some means of "saving" the data was necessary. I was forced back to *PC-File* -- which doesn't seem so complicated in retrospect -- and learned the command structure necessary to download files.

Perhaps, I should have stopped there.

With more powerful software, the limitations of the originate-only modem became apparent. 300 Baud was fine for reading brief messages and text files, but downloading long, 200K, program files exceeded the BBS's on-line time limits in many cases. Lack of auto-dialing made switching from one BBS to another somewhat slow and clumsy when the inevitable "busy" signal was encountered. Beyond reach, *PC-Talk's* dialing directory looked even more appealing.

Late-night working to avoid the "prime-time" busy signals became increasingly common. Frustration at limited downloading because of the time limits imposed by SYSOPS set in. Dropped carriers resulted in amazingly un-adult displays of language normally reserved for sailors, mule skinnners and other legendary characters. Addiction to speed (modem) was insidiously, but firmly entrenched.

The obvious solution was a new, faster, "auto-everything" modem. Selecting one, and where to purchase it, became a major project -- one repeated earlier this year (1987) to upgrade to a 2400-Baud modem -- and leads into the next installment of this series.

Reagan

▲

KEDIT -- Powerful Editor Is Good Choice

Andrew J. Chalk PhD.

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Editors are very personal things. Go into any programmers' meeting and say that your "editor-of-choice" beats the pants off someone else's editor-of-choice. The scene that follows will make Attila the Hun look like a pussycat. Fact is, we don't use editors, we construct our own out of the raw materials provided in the package that the producers call an editor. Be it Brief, VI, EMACS or KEDIT, one month out of the box and it looks like a different animal. The keys have been reassigned, the colors customized, the defaults reset. No wonder people get so attached to their editors -- they think that this is the editor they wrote!

This is what makes it so difficult to review an editor (or at least to live and tell the tale). More than most other pieces of software, these beasts are emotional things because their users know them so well. There is so much that is subjective about "ease of use" that only many months of use with each one can really tell you which is best for you. Even people that have been through this process vehemently disagree.

With all this in mind I am not going to assert that anyone who is deeply attached to their existing editor switch to KEDIT immediately. Rather, I am going to tell you what features KEDIT has and how they can be used. I will introduce some subjectivity in stating what I consider to be its strengths and weaknesses, and why someone who is looking for a good, professional quality, editor should try KEDIT. The producer, Mansfield Software, has a demonstration disk available which is a fully functional version of the product, except for the inability to save files.

Since no editors look the same after a month out of the box as they did when they arrived, it is not very useful to look only at built-in features. Every serious editor comes with a "macro language" to customize it and automate procedures that you use frequently. For example, to "pretty print" a program you don't manually go through the source file, line-by-line, checking the spacing. You just hit ALT-P (or whatever your chosen key combination is) and a previously written program, or macro, does this mundane task automatically. Serious users employ macros a lot, so it is far more valuable to compare editors with their respective macro languages included than without. In the case of KEDIT, the macro language is REXX, and it is obtained for the

PC by purchasing Mansfield's "Personal REXX" when you purchase KEDIT. Personal REXX does double duty as a powerful stand alone programming language as well (see my article "Personal REXX: A Powerful Alternative to DOS Batch Files", North Texas PC News, July 1987). REXX macros have the same syntax as REXX programs, calling them macros is intended to indicate that they are called by KEDIT.

The XEDIT Heritage

KEDIT's appearance and command structure is based on XEDIT, IBM's powerful mainframe editor for CMS. Someone with CMS experience will find the transition to KEDIT easy and quite pleasurable. KEDIT may have begun with XEDIT, but it did not stop there. KEDIT exploits numerous features of the PC in the areas of screen handling, keyboard redefinition and DOS access to create a powerful PC editor in its own right. If your tastes so dictate, it can be configured so that it bears no resemblance to its mainframe cousin.

In XEDIT, the user is confronted with a screen that is divided up into certain very specific tasks. On the left, the first five columns consist of equals signs. This is called the "prefix area" and it is used to enter commands that add, copy, delete and otherwise manipulate lines. The top three lines of the screen are called the "status area" and is where file and cursor information is displayed. At the bottom of the screen is an imposing right-pointing arrow. This is the command line, where you enter commands to perform overall file manipulation such as "save", etc. The rest of the display is filled by the text of the file being edited. The middle line of the screen has special meaning. It is displayed in bold characters and is known as the "current line". Many XEDIT commands operate on the current line and it provides a point of reference in the file that is actually more important than the line the cursor is on.

XEDIT has a strong line-and-column philosophy behind it. Commands refer to locating, copying, moving and deleting lines. There are column analogues of just about every line operation. When you load a file into XEDIT, the logical record length of the file is determined by its type. The REXX interpreter can extract information about the file it is operating on and treats that file as a series of lines. This approach is an efficient one, given the interface we get with mainframes, but less so with the PC.

KEDIT Features

In KEDIT, one can retain this line-and-column approach if one wishes, or one can almost completely discard it. The prefix area that performs such an important anchoring operation in XEDIT can be

eliminated (allowing more of a long line to be visible). The line manipulation commands can be replaced by block operations that can move any block of the screen to any other place in the file. In fact blocks can be an area of the screen, a group of lines, or a "stream" (a sequence of contiguous screen characters). These block operations consist of marking both ends of the block, then (if the command is a move or copy) moving the cursor to the new location and issuing the command to do the operation. Unlike XEDIT, KEDIT lets you use ALT-letter combinations to perform these tasks rather than having to use the command line or the prefix area.

The keyboard can be completely redefined with KEDIT, within the limits of PC BIOS support (the manual, like a lot of manuals, incorrectly states that you can redefine the whole keyboard but some key combinations have no support in certain versions of the PC BIOS). Keyboard redefinition is done with the DEFINE command, issued either from the command line or a KEDIT command file. By using the file method you can make a single key perform complicated multiple operations. KEDIT command files are files containing either valid KEDIT commands or REXX program statements to be executed by Personal REXX. The value of Personal REXX is that the commands available within unadorned KEDIT are limited. You cannot perform loops, variable substitution or conditional execution. With Personal REXX, a complete high-level programming language is available (and one that will do more, more easily, than that in most editors).

To use REXX macros in KEDIT you just load REXX first. After that, REXX features are available from the KEDIT command line. If a command is not recognized, KEDIT searches for a file with that name and the extension .KED. If this file exists it may contain intermixed REXX commands and KEDIT commands.

In operation, KEDIT is fast at most typical functions (faster than most editors according to a review of 12 editors in "Computer Language", June 1986). REXX macros tend to be somewhat slower than the macros in some other editors, but not unbearably so. With an EGA and enhanced color or monochrome display the editor will support 43 line mode. In case you haven't used this, it makes editing a lot easier. Not only do you need to scroll less, but because you can see more of the file you tend to understand source code more quickly. At present, KEDIT's file size is limited by available main memory, but the next version will support Lotus-Intel-Microsoft Expanded Memory Specification. I would like to see KEDIT buffer large files to disk, the way that many (possibly most) serious editors can.

Most features of KEDIT are user-configurable. After a few times with the editor you will probably settle on the way you like it and set up a PROFILE.KED file that is automatically called each time you invoke KEDIT. This file contains such things as the desired color configuration (there are separate color choices for the text lines, the current line, marked blocks, the command line and the status area), the position of the current line on the screen, tabs, whether to expand tabs in edited files, the key redefinitions you want, which line in the file to begin editing on (with Personal REXX it is easy to write a macro that returns you to the line you left, rather than the top of the file) and settings based on the extensions of the file being edited so that the correct indenting can be set for specific languages. Multiple profile files can be set up if desired.

Although KEDIT allows you to configure all keys with BIOS support, you do so on the command line or in a file. A useful feature in the next release would be keyboard reconfiguration through keystroke recording, just like WordPerfect keystroke macros. I tried to write my own keystroke recorder using REXX and ran into a drawback in the integration between the two products. Although REXX can extract almost any information from KEDIT (including lines of text, the file name and virtually all the configuration settings) the same is not true about the ability of KEDIT to use information returned by REXX. I wanted REXX to construct a key redefinition string to be executed by KEDIT, but I could not get KEDIT to execute a correctly constructed string. I will admit that this is possible but, if so, it is not easy. Mansfield Software says that such two-way communication will be much easier in the next release.

KEDIT lets you edit up to 15 files simultaneously. You can switch between files with a keystroke and create up to 8 horizontal or vertical windows. With two or more files on the screen, switching between them is much easier than in XEDIT, requiring only a press of the F10 key.

Help is available in the form of a text file that you load just like another source file. You can then page through for the instruction you want to check. Like most editors, this is not context sensitive and presupposes that you know the name of the command for the function you want to perform.

One feature found in powerful editors is the ability to compile a program from within the editor. KEDIT is no exception and uses the usual method, invoking a secondary copy of the dos command interpreter. It would be nice to see the ability to concurrently compile one program and edit another, as found in Epsilon. In addition to compiling, KEDIT has strong support of other system-level commands through three different

ways of accessing DOS. The standard "dos" command, when issued from the command line invokes a secondary command interpreter. The command "dosquiet" invokes dos without changing the screen and returns you to KEDIT. The command "dosnowait" invokes a dos command and returns you to KEDIT.

The ability to recover from editing errors is something that many programmers regard as an important feature. KEDIT can recover up to 15 deleted lines if there is sufficient free memory. Recovered lines are placed above the current line regardless of where they originally appeared. These recovery abilities are fairly typical of other editors but inadequate to those of Brief. Brief has a feature called "undo" that allows you to simply reverse the effect of up to the last 300 keystrokes except for undo itself and disk operations.

Reliability is a major factor in the choice of an editor. If power fails or a disk or memory is full when you try to do a save, data may be lost. In this respect KEDIT performed without problems. There is also an automatic backup feature that performs a save after a preset number of alterations.

Product Support and Documentation

Mansfield product support is provided via voice telephone or calls to their 24 hour BBS. I found that messages on the bulletin board were almost invariably answered by the following business day, sometimes on the same business day. Voice telephone support is even more impressive. You can often speak to the program's author if you have a specific technical problem and all of the people I spoke to were courteous and knowledgeable about the product. I did not have to wait on hold once, a refreshing experience after making a major contribution to MCI's quarterly earnings with calls to Ashton-Tate (I recommend MCI stock as a buy and Ashton-Tate as a sell). Dozens of KEDIT and REXX macros are available for downloading from the bulletin board.

KEDIT documentation is a letter-size binder containing a 380 page laser printed manual. The well-written documentation contains a tutorial, command reference, guide for XEDIT users, and an index. The cost of upgrades is very reasonable, with minor revisions available for downloading on the bulletin board. The next major revision will be version 4.0 and will probably be available in the Spring.

Summary

Before I started this review, I had not settled on a given editor as the perfect choice for me. The Sidekick lookalikes in Turbo Pascal and Turbo C were fine for short jobs and quite serviceable, but they were too limited. Brief had the power and features but its macro facility was another language to learn and the manual

did a terrible job of explaining it. WordPerfect is great for documents but its Program Editor is also limited. KEDIT in this context has become my editor of choice. It is powerful, reliable and fast. It is easy to use and intuitive in its choice of commands. A major advantage over all other editors on the market is the macro language, REXX. Not only is the time spent learning REXX repaid with KEDIT macros but, as I described in my review of Personal REXX, it can be used as a complete replacement for the DOS batch facility and as a high level programming language for writing system utilities. With IBM's recent choice of REXX as the standard scripting language for their Systems Applications Architecture the prominence of the language is likely to increase.

The price of KEDIT and REXX separately is \$125 each. The two together list for \$115 each but can be found through mail order firms like Programmer's Connection for under \$100. I rate these prices as reasonable given the functionality of the products. I also recommend that you buy Personal REXX if you purchase KEDIT. If you are an XEDIT user then KEDIT is a wise choice for your microcomputer work. Others should definitely give KEDIT a look. At the moment I still have not found the "ideal" editor, but if Mansfield could incorporate "undo" from Brief, concurrent compiling from Epsilon, keyboard macro recording from WordPerfect, and virtual memory in version 4.0 then that would be a completely different situation.

Hardware Configuration Used In This Review

The machine used in this review was an AT clone running at 10 Mhz with one wait state and the Phoenix v3.01 BIOS. The machine had 3 megabytes of RAM and KEDIT and Personal REXX were run from VDISK in extended memory. All applications were loaded from a MFM encoded hard disk with a 28ms access time. The operating system was PC-DOS version 3.3.

PRODUCT DETAILS

Name: KEDIT v3.53.

From: Mansfield Software Group P.O. Box 532 Storrs, CT 06268 (203) 429-8402

Details: One diskette (5.25 inch or 3.5 inch) Not copy protected.

Requires: IBM PC/XT/AT with 192k, DOS 2.1+, one floppy or 3.5 inch drive.

Warranty: Mansfield will replace if KEDIT is incompatible with your equipment

License Agreement: You may use KEDIT on more than one machine, so long as it is not being used on more than one machine simultaneously.

Price: \$125.00 + \$3 shipping.

DATELINE: NEW YORK

Executive confesses to computer collaboration using In-Synch!

John Merson, noted microcomputer industry executive, has confessed to using IN-SYNCH for the purpose of computer collaboration. This is the first public statement in what appears to be the rapid proliferation of IN-SYNCH-based co-computing throughout industry and government.

Collaborating the Easy Way

In an exclusive interview, Merson recounted his actions, from his first co-computing session to his full-blown use of IN-SYNCH. "It started innocently enough," Merson said. "My partner, who was working in our branch office, needed help drafting a proposal for a prospective new client. With IN-SYNCH, we were able to work together, in real-time, on a WordPerfect document as well as a 1-2-3 spreadsheet. We even developed an AutoCAD drawing and threw in some ChartMaster graphs to spice up the proposal. IN-SYNCH made co-computing easy and quick—just as if we were sitting side-by-side. No fax machines. No overnight mail. No special networking. Just our modems and the regular phone lines."

Collaborators Get Carried Away

According to Merson, the computer collaboration didn't stop there. "I guess I got carried away," admitted Merson, "but it was amazing what we could do with IN-SYNCH." Apparently, Merson and his partner next used IN-SYNCH to prepare a slide presentation, using screens selected from the proposal they had developed. These sequenced "slides", including text, drawings, graphs and spreadsheet data, were then shown PC-to-PC (again using IN-SYNCH) to their prospective client. "The prospect had IN-SYNCH on his PC too," continued Merson, "so we dialed him up and delivered our sales pitch online. He loved it! Said it was just the kind of state-of-the-art stuff he needs in today's fast-paced business world. We beat out the competition and got the job."



Collaborating and Proud of It

Merson showed little remorse. "You'd do the same thing if you saw IN-SYNCH. This co-computing is going to catch on like crazy. The possibilities are too hot to ignore. You can co-run all the popular PC software packages. You can transmit and annotate "snapshots" of screen displays. Develop, save and present "slide shows." And IN-SYNCH keeps "minutes" so you've got a complete audit trail of everything you've done. Managers, engineers, programmers, sales people—they're all going to be co-computing with IN-SYNCH. I just did it first. And I'll certainly do it again. And again!"

Poll Shows Collaboration Spreading

Results of an unofficial poll taken by this reporter show Merson's prediction to be proving true. An inside source at MCI stated, "We use IN-SYNCH all the time to analyze important revenue data. It eliminates the need to express diskettes between headquarters and remote branches." And according to a highly-placed source at Rockwell International, "We're using IN-SYNCH for software development as well as for the training of new PC program users." In perhaps the most stunning admission, the president of Engineering Computer Services, Inc. said, "We're using IN-SYNCH with AutoCAD to help

designers and clients review architectural drawings, thereby expediting schedules and cutting costs."

Cheers for Collaborators

According to a spokesman for AVTC, producer of IN-SYNCH, the company will not press charges against Merson. "We knew when we released IN-SYNCH that it was the first and only product to bring teleconferencing to the desktop of every PC user. With an innovative product, you've got to expect innovative uses. Off the record, well, frankly we're delighted and we'd just like to say: keep on collaborating!"



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In New York State, 516-420-8080 ext. 65



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DISK OF THE MONTH

Kathryn A. Crawford

Greetings from your new DOM Chair. Tim O'Neil, the retiring chair, is not retiring very far and will continue to manage the DOM Mail Order Department, register the shareware, and count the change.

New This Month

The Disk-of-the-Month for September 1987 will be **DANCAD 3D** Version 1.30, a shareware program written by Daniel H. Hudgins. The CAD in **DANCAD** stands for Computer Aided Design. The program requires 640K RAM and a CGA graphics board. The registration fee is \$10. Really. There is a 512K RAM version available from the author for a registration fee of \$7.50.

DANCAD 3D will do a reasonable CAD drawing. It may not be as neat as AutoCad; but then it doesn't cost over \$1000, either. **DANCAD 3D** is not fast, nor is it really easy to use. However for someone beginning to use CAD or just interested in CAD, it will do what is needed and probably a bit more.

DANCAD 3D will draw two and three dimensional drawings. The drawings will appear on your color monitor in black-and-white. It will implement manual or automatic dimensioning of drawings. You can also write macro programs with the **DANCAD 3D** editor to produce drawing elements.

DANCAD 3D will print the drawings on most dot matrix printers. The printing is done in a very high resolution mode, 240 dots per inch, and is therefore a little slow on IBM compatible dot matrix printers. The drawings are worth the wait. Plotters are supported and a mouse can be used to simulate the cursor keys for drawing.

The program is also capable of producing animated displays of the two and three dimensional drawings. Three demonstrations of the animation capabilities are included on the second disk, which is called **DANMOVIE**. The frames produced by **DANCAD 3D** are shown in sequence, much like a movie show for animation.

A seventy page Manual is included on the first disk. It contains a five part Tutorial.

Pete Testa, a long-time volunteer at the DOM desk, wrote the readme for this Disk-of-the-Month, and has

promised a longer review of the package for the newsletter.

The version we have of **DANCAD 3D**, version 1.3, was current as of November 1986. It was donated to the club as a four disk set. We have ARCDed it down to two disks. This was done for two reasons. First, the DOM is a service to the membership of the NTPCUG and making you buy four disks to try one shareware package is not our definition of great service. Second, those of you who haven't gotten into ARCDing and deARCDing need the practice. Instructions will be provided, so in the immortal words of Doug Adams: DON'T PANIC.

In addition to **DANCAD 3D**, we will also have: **ChiWriter**, a demonstration of a program to do Greek text; **RBBS** Version 15-1B, a bulletin board, with conversion utilities; **ManageX III** Version 2.5, an update to the program in the collection; **FREETK**, an evaluation version of TK Solver Plus Version 1.0; and **Advanced Pro-Path 6**, a DEMO of a commercial program for Critical Path Management. Charles Carter wrote the readme for **FREETK**, Jim Wehe wrote the readme for **Advanced Pro-Path 6**, and Ken Loafman wrote the readme for **ChiWriter** and **RBBS**. Thank you one and all.

The DOM

I am told that the name of club's software collection started back in the days when the club met at SMU. The **DISK-OF-THE-MONTH** would be distributed at the end of the main meeting. The original DOM disks would have many short public domain programs on one disk, usually a number of utilities and games. The disks would be in a box that was small enough to fit into a person's lap.

As time went on, there was more available each month than could fit on one disk. Additional disks offered each month would be numbered as Public Domain disks, in addition to the DOM disk offered that month. The DOM disk continued to be labeled with the month and year it was offered. We also had the IBM Exchange disks, which was the magazine sent by the IBM User Group Support Department, until IBM discontinued the magazine on disk and began shipping it to user groups in the traditional magazine format. We had a series of disks numbered in a LETUS series (more on that next month). We also had a series of disks numbered as DEMO disks, which was rather confusing because there was demonstration software in the series



of disks labeled as Public Domain. For that matter, there was Shareware software on the disks label Public Domain. Everybody became terribly confused. Then we started having a committee to run the DOM; and even more people were confused, but in a much more organized fashion.

A great deal has changed. We have a reliable core of volunteers who work the DOM table each month. These people contribute an hour, sometimes more, each meeting to sell the disks and answer your questions. Without their participation there would be no DOM table at the meeting, I can assure you. Dwight Neal has been doing the scheduling for the DOM table for the past year, and is now looking for a replacement:

We have a DOM Production Manager, Dr. Howard Hamilton. The DOM Production Manager is the person responsible for getting the disks made and delivered to the monthly meetings. The person in this position performs a number of functions: inventory on the existing stock, getting master copies of disks to the company that reproduces the disks, picking up the disks from the company in time for the monthly meeting,

complaining to the company if they don't have the disks ready on time, putting out the new disks for review, seeing that the readme files get written, getting the disks ready for production, reordering stock, storing the stock between meetings.

The first qualification for DOM Production Manager is that the person be able to store the DOM stock between meetings. The second qualification is that they are willing and able to do all the above. The club has been very fortunate in having Dr. Hamilton as DOM Production Manager because he has been very happy to do all of the above and does it very well. The Dr.'s forte is inventory control and his efforts are putting the collection in shape. We now have monthly reports on what is selling and what is not. The August Fire Sale was Dr. Hamilton's idea; and has been so successful that we are extending it to September.

We have recently changed the numbering system of the DOM disks so that there is only one series of numbers. We changed the DOM sequence of month and year to a number that represents the year and month: for example, January 1987 is now 8701. We have stopped using the prefix PD on the numbering sequence, since there was an awful lot of shareware and commercial demonstration programs mixed in with the public domain.

Instead of one new disk each month, we now offer several disks each month: shareware packages, demos, and collections of public domain programs. Some of the software is on sets of two or more disks. Each month we will spotlight one software package in this column as the DISK-OF-THE-MONTH. We will be offering more software than just this one disk at the DOM table, but we will give a full description of only one of the disks that will be offered that month. We started this policy for the sake of the sanity of the DOM Production Manager. It seems to be working, so we will continue.

You see, what software we have to offer each month depends on when the reviewers get the readme files to Howard Hamilton. There is a cut-off date each month. Readme files received before this date will go on the disk and copies will be made for the next meeting. Readme files received after that date will hold the disk up for another month. Readme files never received will send the disk to never-never-land.

The moral of this is if you want more disks to appear in the DOM each month, volunteer to write readme files.


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Then write the readme file, and get it to Howard Hamilton. You will never see the following headline.

**Reviewers Wanted: All Glory,
Top Pay, No Work!**

Now that I have your attention, allow me to point out the advantages of being a reviewer of DOM disks. You learn about software in a real world environment. You get a free disk. You meet interesting people. You get a free disk. Your name will appear prominently in the readme file and in this column. And then there is this free disk...

If you would like to know what is available for review, go to the DOM section of the conference area of the bulletin board. The list of available disks is posted each month by Dr. Hamilton. Instructions for reviewers are also available in the section labeled: Guidelines for Software Reviews. Reviewers are appreciated, and get a free disk.

Software Updates

If you come across a more recent version of software in the DOM collection, contact Howard Hamilton. If you find a new version for the collection, your efforts will be greatly appreciated; said appreciation taking the form of a free disk from the DOM collection.

Defective Disks

If you get a disk that "Doesn't Work" you need to return the disk at the DOM desk with a WRITTEN description of the problem. In return, you will get another disk of your choice, either a disk of the same number or different one of your choice. Or a refund, if you prefer. The phrase "Doesn't Work" covers a lot of situations: defective disk, program bug, system incompatibilities, and operator error. You are receiving the free disk, not because there was a problem with the disk you bought, but because you reported the problem to the user group

Replacement Of Catalog Disks

You can get copies of the current Catalog Disks by returning the old Catalog Disks and paying a replacement fee of \$1.00. The readme files for the most recent disks, the index for the current month, and files containing order forms are on Catalog Disk #2. If you only want to update Catalog Disk #2, you need to return a copy of an old Catalog Disk #2 and pay a fifty cents replacement fee.

Special Orders And Mail Orders

If the disk you want is not available at the DOM table, you can special order the disk. The order can be picked up at the DOM table the next month, or you can have the order mailed to you. If you want the order mailed, you will need to pre-pay it.

DOM Particulars

The North Texas PC Users Group copies these programs as a service to the club and its members. We try to test all the programs, but we do not warrant the programs in any way. You must decide if a program is suitable for your system and use. If you ask, we will tell you what we know about any program, but the final decision to buy and/or use these programs is yours. We will gladly and without question exchange an unreadable diskette for one of the same program.

EXCHANGE: All members of the club are encouraged to contribute copies of public domain programs to the club library. For each new diskette of software contributed, you may select any diskette in the club library in exchange. The contributions will be reviewed before credit is issued at the next meeting.

MAIL ORDERS: At prevailing prices plus \$1.00 for mailer and postage. Mail your order to Tim O'Neil, Box 396, Bedford, TX 76021.

PRICE: Members: \$2.00 per diskette (if the program is on two diskettes the price is \$4.00). Non-members: \$3.00 each diskette.
CATALOG DISKETTES: Currently this is a two volume set priced at \$4.00. This has all of the readme files from each diskette in the club library.

MEDIA: DSDD 5 1/4" Formatted as 9 sector data diskettes. Public domain software only, standard full disclaimers

AVAILABILITY: We will do our best to have all past diskettes at each meeting. DOM sales will begin at the DOM counter around 9:00, and continue until 2:00 PM.

IBM EXCHANGE NEWSLETTER: If IBM has published an Exchange for this month, the issues will be available at the auditorium AFTER the main meeting, at no charge to paid up members of the NTPCUG.



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Demo2	BDS, TENKEY, MEDIA MAGICIAN,	0022	POWER worksheets
Demo3	GASP DOS shell demo version	0023	FREECOPY (DISKCOPY function)
Demo4	WINDOWS DRAW demo version	0024A/B	CIP DATA BASE TRIAL VERSION (360k)
Demo5	MICROSOFT CODEVIEW - debugger	0031	PC-VT v7.6
Demo6	ABC Andrew Tobias MANAGING YOUR MONEY	0035	SIMTERM (HP-like terminal)
8302	MAZE AND UTILITES	0036	SMALL-C:PC (C compiler)
8304	Games: GOMOKU, PACMAN,	0038	Full Screen Editor Demo and
8308	UTILITIES: WS custom files	0046	HOST-III & HOSTCALL
8412	Whizzard BASIC Speedup	0048	PC DEAL VERSION
8501	BASIC Professor, Word processing	0050	3by5 v1.0: text search program
8503	PC-TAX84 Ver 84.8C	0053	DOS PATCH UTILITY
8602	ACCUTAX 1985	0058	LOTUS 1-2-3 cash flow ledger
0004	UTIL, SWLPT, SPEED411, etc.	0064A/B	FITT 85-- LOTUS 1-2-3 template
0006	FREECALC (Spreadsheet)	0081	JUNIOR MUSIC MACHINE
		0089	XLISP V. 1.6

... at the DOM table.





SOFTWARE REPORT

by Dick Gall

RapidFile

Form letters, mailing labels, index cards, and reports are the outputs of Ashton-Tate's RapidFile. It produces these by integrating data file management and word processing functions in a single program that runs conveniently even on a dual floppy-disk based PC with 256K of memory.

Framework users will quickly recognize RapidFile's similarity in the areas of record keeping, word processing, pull-down menus, and the usage of many of the function keys. Lotus 1-2-3 fans can feel at home by turning on the horizontal menus option at the screen of the customizing program:

Program Settings	Customize
1. Menu style	Pulldown - Horizontal
2. Function key help	On - Off
3. Clock format	12hr - 24hr
4. Load memo writer	On - Off
5. Default data directory	\RAPID\RFDATA
6. Directory display	Filtered - Expanded
7. 1st printer port	LPT1 - LPT2 - COM1 - COM2
8. 2nd printer port	LPT1 - LPT2 - COM1 - COM2
9. Sound	On - Off
10. Enable color	On - Off

RapidFile's data manager is a heavyweight automated record keeping program. A data file is initially set up by selecting FILE at the main menu and the CREATE function at the first submenu. A file is created by specifying the field names and types (text, numeric, and date). Once a file has been given this structure, data can be entered and edited in individual fields or cells of each record.

The RECORDS section of the main menu is used to manage and manipulate data files

File Layout ***Records*** Write Print
Order, Locate, Select, Replace, Delete, Totals, Calc

The ORDER function sorts the records of a file in alphabetical, numerical, or chronological order in either the ascending or descending direction using one or two data fields. LOCATE finds records using matching criteria or user-assigned tags. SELECT filters the data file and creates a subset of the records. TOTALS sums the numeric values of numeric records in designated fields, and CALC calculates new field values based on input data fields.

The LAYOUT menu provides power in generating good data presentation and reporting formats:

File ***Layout*** Records Write Print
Choose, Design, Use/Save, Snapshot

RapidFile provides six types of layouts: table, form, split table/form, label, quick report, and custom report. A table displays multiple records with each record in a row and the fields in columns. Usually one must scroll horizontally to see all the fields in a record. A form, on the other hand, shows all the fields of one record on the screen. The split screen shows part of the records table and the form. Custom form layouts are created with the DESIGN function. For mailing labels, RapidFile provides nine predefined label size options in addition to custom layout capability.

Reports add derived information to a file layout, including totals, subtotals, and other statistics. Standard functions available are total, average, count, minimum, maximum, running total, and percent. Custom calculated fields can also be created by combining a wide variety of functional operators in numeric expressions, including 7 date functions. Logical and string operations and comparisons are also available.

Memo writer is the name of RapidFile's word processing function that creates text and merges selected data fields within the text to generate multiple documents and form letters. The word processor program itself comes from Framework, and contains all the functions of a major word processor, including word wrap, character attributes (boldface, underline, etc.), block functions, etc. Data fields are inserted by "point and shoot" selection from an on-screen list of the defined data fields.

While RapidFile has adequate capability to satisfy the power PC user, it also provides plenty of support material to advance a new PC user from the simple basics of the program to the use of advanced functions.

The program package includes 4 diskettes and 4 books:

DISKETTES	BOOKS
System	Getting Started
Sample Data/Utility	Learning
Help	Using
Tutorial	Quick Reference Guide

The tutorial diskette contains over 300K of organized, on-screen instructional material. New PC users will feel comfortable starting with the tutorial, progressing to the Learning manual, and then venturing into the real RapidFile supported by the books and extensive on-line HELP system.

Current users of word processing and data base programs will be able to dive right in after a cursory inspection of Learning, referring to the Using book as the details of some advanced features are needed. Power users can proceed after a cursory scan of the Quick Reference Guide, with its complete layout of the menu

structure and dozen pages of summarized instructions. Framework users will feel right at home from the beginning.

The description of RapidFile's main functions so far is generally the introductory level of information provided in the Learning book. Using, which is twice the size of LEARNING, provides further detail and information on many additional features and options available within each major function. Whole chapters are available, for example, on designing tables and forms, changing file structure, custom formulas and expressions, and automating keystrokes with macros.

The relationship of RapidFile to the outside world is covered in the chapters on translating data (exporting and importing files to dBASE, 1-2-3, Framework, and general files), RapidFile for pfs:Series users, and RapidFile for Lotus 1-2-3 Users. This thoroughly modern program even creates virtual memory space on

disk files in case the data file being used is too large for the PC's memory.

System requirements are an IBM PC or XT or AT or 100% compatible with at least 2 floppy drives (or one and a fixed drive) and 256K of memory with PC-DOS 2.0 (384K starting with DOS 3.2), monochrome or color monitor. RapidFile is not copy protected, but does include a "personalize system disk" function that embeds user and program serial number identification in the program before it can be used.

Dick



SWAP SHOP

Four lines free each month to members; 5th through 10th lines at 15 cents per word. Larger ads at commercial space rates. Send check to the Editor for words exceeding the four-line limit. Free ads are on a space-available basis. Mail ads to the Editor.

TEXAS A&M UNIVERSITY graduate with BS in Computer Science seeks position to utilize his computer skills. Experience includes software engineering, data structures, database management, operating systems, scientific applications, and other areas. Contact: Stephen Jagers, 2525 Players Court #314, Dallas, TX 75252. (214)306-8887.

Accounting/Finance position sought. Member with 11 years of financial management and accounting experience. Call (214)783-9616 for details, or write P.O.Box 835142, Richardson, TX 75083.

FOR SALE: Two 3MB floppy drives \$60; controller + device driver \$95; 3MB diskettes BO; PC/AT 1.2MB floppy drive \$45; all go for best offer; Jim Green 827-7522

Framework I For Sale Complete copy with docs. and original disks. Framework contains wordprocessing, spreadsheet, database, graphics, communications and desktop management all in one convenient package. Learn only one set of commands and use them in all of the Framework modules. Original packaging, in as-new condition, will transfer registration. Only \$55. Call Andrew Chalk 226-3461 (answering machine will pick up if I am out).

FOR SALE: Wyse 30 Ascii Terminal \$199.00. Firm. Call Computer Systems Analysis (214) 380-8172.

EXPERIENCED dBASE PROGRAMMER WANTED! CALL CSA (214) 380-8172

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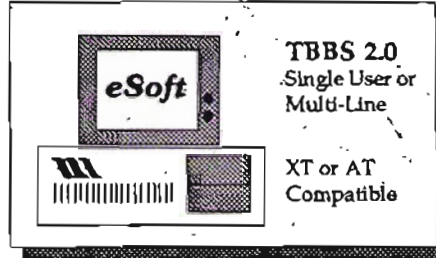
(214) 437-4837

Hummel & Associates announces A Revolution in TeleCommunications Software!

Turn your XT or AT into an unbelievably fast BBS that outperforms anything up to and including a DEC Micro-Vax!

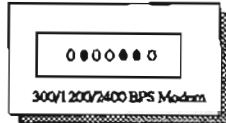
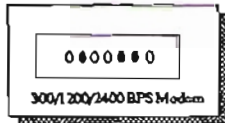
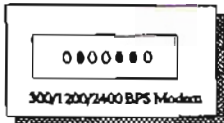
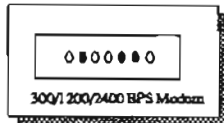
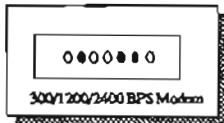
TBBS is a commercial-grade Bulletin Board System, that converts an XT or AT-class machine into a secure, reliable, full-featured On-Line Information System. TBBS is an excellent choice for:

- Company Technical Support Lines
- Newsgathering Organizations
- Polling and Survey Taking
- Online Product Info & Order Taking
- Educational Institutions
- Computer User's Groups' BBS



DigiBoard 4 or 8 port card

- No Programming Necessary!
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- Effectively run 8 different BBS's at once!
- Up to 8 lines on an XT-class machine!
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- Optional FidoNet compatibility
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- Real time conferencing & CB simulator
- Sysop has complete control over the look and feel of his individual BBS system!
- More cost-effective than the inefficient and low-performing Shareware BBS programs.



TBBS 2.0 Performance Specifications

- Max # of msgs: 30,000
- Max # of Msg Areas: 52
- Find User in 16,000 user log: 700ms max
- Find waiting msgs at logon in 30,000 msg base: 180ms max
- Recognize & react to user's command during output: 1 character max

(all above times taken with a 4.77Mhz CPU and a 90ms seek hard drive)

Multi-Line Performance

XT-based system:

With eight 2400 baud active users on a 4.77Mhz PC, maximum degradation is less than 10% from single line operation.

AT-based system:

With sixteen 2400 baud users on an AT, maximum degradation is less than 10% from single line operation.

Note: More than one phone line requires TBBS Multi-Line Version 2.0M. Max throughput requires a DigiBoard card & a 40ms HD.

What do the reviewers say about TBBS?

The Bread Board System is one of the few BBS that a non-programmer can operate. It does everything a BBS is expected to do and more, with unusually fast response time.

- The Whole Earth Software Catalog

The best Bulletin Board software on the market.

- John Dvorak, Inside Track

The Best Business Tool Ever Invented.

- Harry Newton, Teleconnect

TBBS is as fast as your computer (and on the new IBM AT this is VERY fast!). Because it is written in assembly code, hackers have a difficult time breaking into the system. This type of security is vital.

- Paul Kittle, Director Medical Libraries
Loma Linda University Medical Center
Writing in Online

In TBBS I have seen the programmers' art raised to a new plateau of excellence. It is certainly worth the price.

- Infoworld

Prices

TBBS 2.0S - Single Line	\$299.95
TBBS 2.0M - Multi Line	\$895.00
Net Mall Option	\$99.95

Multi-port serial Adapters w/ 3-ft cables

4 port Serial Card	\$449.00
8 Port Serial Card	\$679.00

ALR 64-Meg AT	\$2595.00
---------------	-----------

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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 about the Group, call (214) 746-9297.

Application Status: (Check One)
>>>> NEW MEMBER
>>>> RENEWAL
>>>> CHANGE OF ADDRESS

(Please Print Clearly or Type)

NAME: (Last) (First) (MI)

OR Company/Organization:

ADDRESS: (Suite/Apt)

CITY: STATE: ZIP:

PHONE: Home () ; Work () (Ext) (Check Preferred #.)

Do you want access to the Club RBBS ?

Please initial here if you wish to have your address included on member lists sold for the club's benefit to advertisers of IBM compatible products.

The NTPCUG expects and encourages volunteer participation by members in helping put on the monthly meetings at INFOMART. This usually consists of a few hours of your time each year. If asked, would you consider assisting the Group with one or more of the following activities:

[A] Working with NTPCUG Volunteer committees?. (See below, and description of activities on reverse.)

Volunteer Areas from [A] above (Please check all that apply.)

- [IB] Information/Registration [MM] Membership [GP] Group Purchase
[NL] Newsletter [ES] Equipment Setup [FB] Financial/Bookkeeping
[DM] Disk of the Month (DOM) [PR] Publicity/Public Relations [ST] Startext NTPCUG Column

- [B] Giving a talk or demonstration to a small group?,
[C] Giving a talk or demonstration to a large group?,
[D] Being a volunteer, informal "consultant" in your area of expertise for NTPCUG members?

Would you be interested if the Group arranges instructional courses (at various levels) in any of the following areas at a cost per student of approximately \$5/classroom hour?

(Please circle or specify, indicating level preferred, i.e., beginning, intermediate, advanced, etc.)

- [A] Spreadsheet software -- Lotus 1-2-3, SuperCalc4 etc., (Please specify)
[B] Data Base software -- dBase, RBase, Reflex, etc., (Please specify)
[C] Word processing software -- Word Perfect, Wordstar, etc., (Please specify)
[D] Integrated software -- Framework, Symphony, etc., (Please specify)
[E] Programming Languages -- APL, Assembly, Basic, "C", Fortran, Forth, Pascal, (other)

Do not write in this area -- for use by NTPCUG

Annual Dues are: \$24.00 (Regular Membership) \$12.00 (Student Membership with ID)

Applications should be mailed to: North Texas PC Users Group, Inc.
(Please make checks payable to NTPCUG.) P.O. Box 780066
Dallas, TX 75378-0066

Received: \$ Check No. Date: / / BY

On Sharing

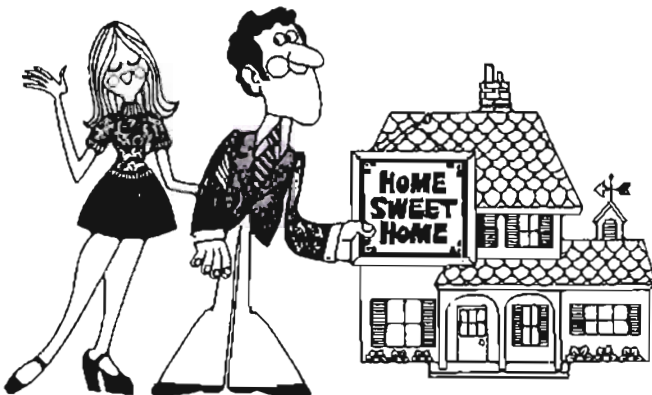
by Connie Andrews

Some things don't come easy. Like being a one-computer family. If the purchase of your home computer included a plan for other family members to share access to it, has it worked?

For us, shared access has been a qualified success. I say "qualified" because there have been problems. One is time. With only two users (Reagan and myself), we thought there would be plenty of time after work and on weekends for both of us to use the computer to our respective heart's content. We didn't stop to think about how many other activities also fill those hours, like an evening with friends, reading a good book, going to the movies, hobbies, not to mention household chores and yardwork.

Truth is, computers are like peanuts -- regardless of any other plans in your schedule, once you're on the computer, it's awfully hard not to take just one more minute to explore a little more, learn a little more, do a little more ... Computers have a way of suspending time, all the while they are eating it up. I believe this is called a background operation -- one that is transparent to the user.

We have been able to avoid any time conflicts so far, but they are bound to happen sooner or later. And when they do, who gets to become systems manager and make the final decision as to who comes first? What do people do in a three-user(+) family? When there are too many users and not enough computer time to go around, what do you do? Purchaser a second computer? Like a second TV or car?



But time is not the only enemy. Level of user ability can really throw a wrench in the works. I share the computer with a very advanced user. This is where things can really get sticky. Once a system is customized with batch files, a lower-level user loses the ability to consult an off-the-shelf manual for an explanation of exactly what is going on and what to do about it. How many advanced users do you know who keep documentation files, ready for quick reference? I thought so. Little surprises from batch files always seem to happen when the advanced user is not around to explain them. (I must start going to the DOS SIG.)

Now is a good time to mention another struggle some of us lower-level users face every time we sit down at a computer. Fear of screwing up, of wiping out hours of work. Sometimes it's quite powerful. In my efforts to explore and learn, more times than not I feel a bit like a rogue elephant trampling about the system. A computer klutz by any other name. In a shared environment, a wipeout affects all users. It is not a good feeling to have to confess that you were having this great time putzing about the system when all of a sudden, OOPS ... It is one thing to reconstruct your own work from scratch, but the work of someone more advanced than you? AAUGH!

Happily, we keep coming up with solutions. Our original system worked off of floppy drives. I started a box of my own operating diskettes, which Reagan promptly labeled "Connie's Inviolable Box". (Advanced users have a weird sense of humor.) But don't laugh, it did the trick. Adding a 60-meg hard disk complicated things, but as of this writing it is partitioned and boot-up is set, at my request, in such a way that I would have to work real hard to erase anything of Reagan's. With those territorial safeguards in place, I feel freedom at no one's expense.

Now, all is well in Never Never Land. If I could just get over this nagging feeling that, safeguards notwithstanding, I might crash the entire hard disk ... Hope you enjoy living dangerously, Reagan ... or would you like to discuss a second computer?

Connie

▲

Selected **SIG** Happenings

News and Meeting Notes on Special Interest Groups

Who Needs It?

The officers of the NTPCUG, most of whom have grown up with PC's from their early days 6 years ago, have perhaps belatedly realized that in order for the group to fulfill its purpose, we really need to have more sessions for the beginner, or at least relatively inexperienced PC user.

It is our intent that no later than the October meeting we will have Special Interest Groups running all day long to appeal to the "beginner", with parallel meetings for the more advanced user, plus meetings for those with unique interests (e.g. Genealogy, Astronomy, Investing, etc.).

If you have comments or suggestions regarding a reorganization of our SIG's along those lines, please pass them along to any of the officers.

Changes in Times for 9:00 A.M. SIG's

Several of the SIG's previously scheduled at 9:00 have been moved later in the day. This is due to the high number of requests for that particular time slot (from both our own and other groups), and our desire to share the available rooms with the other groups on a fair basis. Apple and Tandy have also adjusted their schedules in the interest of "fairness".

So you want to start a new SIG!

When the NTPCUG was young (and small), we would start a Special Interest Group at the drop of a hat. In the REALLY old days at SMU, we had the class rooms all to ourselves, and even at Jesuit, meeting jointly with Apple, there were plenty of rooms.

However, nice as the Infomart is, with the large number of different User Groups represented in the Computer Council of Dallas, and the large number of SIG's in our own group, we have reached the point where it is no longer possible to start a new SIG quite so informally as before.

Effective after the September meeting, anyone wishing to organize a new SIG will need to go through a small amount of "red tape" in order to organize the new group. The steps are as follows:

- Obtain a SIG Request Form from our booth near the front of the Infomart (or from Phil Chamberlain).
- On this form, show
- The name and purpose of the proposed SIG
- The name and telephone numbers of both a proposed leader and assistant leader.
- Three choices for meeting times (recognizing that 9 A.M. and noon are already full, unless one of the current SIG's is discontinued).
- Signatures of twelve (12) active members of the NTPCUG as a statement of their interest in supporting and maintaining the SIG. (These signatures WILL be check-

ed against the current membership list.)

The SIG will be activated at the very next meeting. HOWEVER, the Board of Directors may at any time re-schedule the SIG, or cancel it completely, if the attendance falls so low that the existence of the SIG is preventing the formation of new SIG's with greater interest.

Phil Chamberlain

APL SIG

After a summer break, APL will resume in September, and will lay out our plan for the remainder of the year. It will be necessary for us to demonstrate that a sufficient number of members have an interest in APL, or we may need to disband the SIG, as Phil Chamberlain has explained above.

Jim Fiegenshue

Beginners SIG

September will be the final part of the 3-part Beginners series. These sessions are for the new, or relatively new, PC user, and cover the fundamentals of hardware, DOS, and "how to get started".

I hope you all recall that September is the last month that I will be able to run this SIG, and that we need a new leader starting with the October- December series.

Gordon Baskett

dBase Programmers SIG

Thanks to all who attended the August meeting, we had our best turn out yet. The topic of the September meeting will be of interest

to all, especially those interested in developing Synergy applications. DBXL is a data base manager that is fully compatible with dBase III Plus, at a fraction of the cost. For those who already have dBase, there still may be an interest in DBXL. There are some extensions in the DBXL language that allow you to do some things that are not possible with dBase or Clipper. For Clipper users, DBXL offers an inexpensive interpreter for debugging your applications before you compile. For those of you that are not sure about developing applications in dBase, this is an relatively inexpensive way to find out if this type of work is feasible.

For those who were at the last meeting, and are interested in developing synergy applications, this meeting will be a must. We will be briefly discussing how to develop applications in DBXL that will call the functions of Synergy. The process in achieving these results through DBXL is much simpler than either dBase or Clipper. As promised, I will

David Hayden

DOS SIG

Multiple disk formats and the confusion surrounding transfer between formats and versions of MS/PC-DOS monopolized the August DOS SIG meeting. SIG leaders waded through the "swamps" confronting multiple-machine users when trying to maintain order among 5.25" low-density (360K), 5.25" high-density (1.2M), 3.5" medium-density (720K) and 3.5" high-density (1.4M) floppy-disk standards.

Current (Versions 3.2 & 3.3) DOS does support 3.5" drives, but users were warned that DOS's below 3.3

must have DRIVER.SYS in their CONFIG.SYS file in order to properly format 3.5" medium-density disks at 720K. (Unless this is done, the 3.5" disks will be formatted to 360K.)

Jim Hoisington, DOS SIG Co-leader and NTPCUG President, observed that the 3.5" disks seem to run "faster" than the 5.25" low-density disks until they become full. He also reminded members that the accessory 3.5" drives sold locally work very well with PC/XT-machines, but are not reliable when added to PC/AT machines at present. It was suggested that AT-type owners may want to buy IBM drives for their than AT-types, conversion is very simple and relatively inexpensive.

Members were discouraged from attempting to employ the "outlaw" 5.25 inch medium-density (720K) format currently circulating on local BBS's. This format uses a standard 5.25" floppy in a HD (1.2M) drive, but requires modifications to IBMBIO.COM and FORMAT.COM via DEBUG, and may produce unexpected results for the unwary.

As usual, the planned discussion for the meeting -- advanced usage of .BAT files -- was superceded by questions from the SIG members (see above). The September DOS SIG meeting will continue with exploration of .BAT's, and with various makers' idiosyncracies in MS/PC-DOS versions.

Reagan Andrews

Genealogy SIG

(SIG Coordinator's comments)
Judge N. L. Linebaugh, in conjunction with the SIG leader, Minnie Champ, produce such extensive notes that we are unable to

reproduce them in their entirety in our newsletter. This SIG is run jointly with Apple, and is in fact attended by members of several of our DCC affiliates who are interested in the subject.

It is likely that of all of our SIG's, Genealogy is the best prepared and reported. If you are interested in this subject, you really SHOULD attend one of their monthly meetings.

Personal Financial Planning and Stock Market Investing

Although these two groups may evolve into two separate SIG's, they will meet jointly in September. It is likely that PERSONAL FINANCIAL PLANNING will be directed at the professional (using relatively expensive software).

The proposal for STOCK MARKET INVESTING is to include those interested in utilizing personal computers for fundamental and technical analysis in the trading of stocks, options, mutual funds, bonds, and commodities. Software reviews, guest speakers, and general bull sessions will be in order. This is not an "investment club" passing out tips, but rather for those, ranging from novice to pro, who have a common goal -- making money in the market. And who are ready to take charge and manage their own portfolio. This is not a fun and games group, but a serious investment SIG led by non-professionals who have a vested interest in the subject "put your money where your mouth is".

Cliff Murphy 279-7973

(SIG Coordinator's note: The future existence of either or both of these SIG's will depend on their fulfilling the conditions set forth above.)

Microsoft QuickBASIC Version 3.0

A QuickLOOK by Bob Russell

Having occasion to use QuickBasic on a small project, I have had to become acquainted with it during the last two or three months. Below are the impressions I have gained while working with it. I have been favorably impressed with it after initially rejecting it because of the unfamiliar environment. The more I have worked with it, the more I appreciated its concept of operations, and the added instructions that allow structured programs to be built and to incorporate already written code, not only in BASIC, but Assembler and Pascal as well. By the time I complete my project, I feel that I will have added another language--fairly extensive previous BASIC programming provided only a start toward mastering the full capability of this new tool.

Problems

It took a while to get accustomed to the commands, which are counter-intuitive to one who is accustomed to Lotus, et al... SEARCH/REPLACE is not in the EDIT menu, and the help screen doesn't tell you that. You just wander around for a while, and natural curiosity will lead to the SEARCH pull down menu, where you will also find the REPLACE command.

The editor is a cross between WordStar (CTRL-Y to zap a line?) and some all-new commands. SELECT is a shift-arrow, CUT is DEL selected, and PASTE is INS the previously CUT or COPIED text. Shift-UP/DOWN gets you more than one line of Selection--unless you are in column 1. Who is in Column 1 when editing a structured program? Only at the very beginning and at the end, so only very short programmer are well served here. Adding pages to the Version 1 book to make the Version 3 book may be cheap, but it doesn't endear the documentation to the new user. Starting the book with Libraries, which add very little to the utility of the language, seems a poor choice. Especially since you can spend many hours trying to get them to work, with limited or no success in my case. After you have mastered the technique, you are told that it is not very useful. I became more cynical than usual.

Plaudits

Extremely fast compile time. After one gets used to the environment, it becomes second nature to compile, link and run for debugging purposes. The ease of maneuvering in the environment increases greatly with practice. Loop, Do-while, Case, and If-Then-Else block syntax Debugging environment: Breakpoints--Execute your code, stopping wherever you chose, in order to evaluate values. Watch variables--Just what it says: watch the values change as the code runs. Trace--follow the code through subprograms and functions as it executes.

Animate--let inverse video follow the lines of code, pausing after each line. Adjust the speed of execution. Edit hot key--choose debug or edit mode with a touch. Labelled subroutines--Gets away from line numbers and allows both Global and local variables. This has the advantage that you don't have to worry nearly so much about variables with the same names, since they will usually be local to the few lines of code in a subroutine. In large programs, this was a major headache in line-numbered BASIC. \$INCLUDE metacommands are grown up language functions that give the programmer the option of modifying and using previously written source code for a new program. It can also be a major advantage in testing new code, since the \$INCLUDE code can be brought into a main program consisting of previously tested blocks of code. Only if it is satisfactory will it be brought in as a permanent part of the main program. Other features: Full support for math coprocessor--speed with floating point at last! Write and debug in memory, then generate the EXE or COM file for run time.

QB* turns BASIC into a real programming language--we are no longer in danger of contracting brain damage through programming in BASIC, as long as we use QuickBASIC. (Ref Niklas Wirth's comments about Basic circa 1982)

Progress With Version 3.0.

Most of the bugs have been taken out--we hear there are a few left, but those will be gone by the time V.3.01 comes out. Mouse support is a solid forward step. The pull-down menus and slick compiler option selection windows do very well after the PC user's command line instincts have been overcome by a few hour's use of the visual command interface. User defined functions. If the functions you need are not supported, build your own. Old Fortran programmers are very happy to see this capability; again, they have made BASIC into a real programming language--almost. Compatibility with older BASICs rates an A. The interpretive BASIC programs take on new life, just by converting them to ASCII and compiling them. No more hurkey-jerkey operation while all those parenthetic statements are evaluated again and again.

Reservations

Like everyone else I have talked to, I would like to see software publishers sell a tested product the first time out, rather than wait for Version 3.01 or whatever. Given the competitive pressure, I suppose that's a vain hope. All we can expect is that the product will work, and that the upgrade will be relatively painless. That was true in the case of QuickBASIC, and Microsoft has done well with this product. It will do most anything you really need to do in a microcomputing environment, except run two timers at once.

Bob

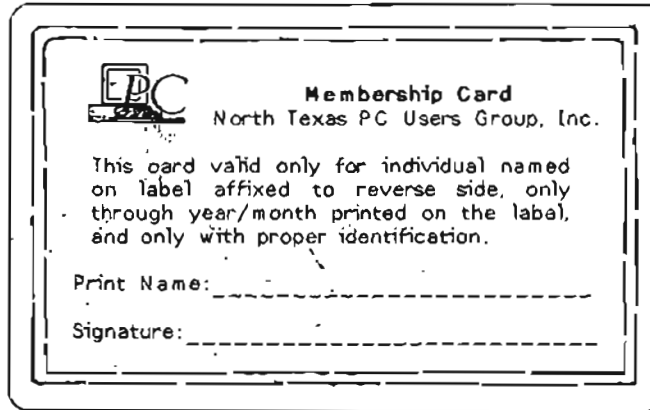
▲



MEMBERSHIP CARD

This is your membership card in North Texas PC Users Group. You will need it for identification at Disk of the Month sales, group purchases and other activities. This card is valid only for you, the person named on label on reverse side. It is valid through expiration date shown on the label.

When trimmed, the card will fit the holders previously furnished for Infomart cards which are no longer required. Wear your membership card instead. Additional holders will be available at a nominal charge.



Trim card to wallet size.

Meetings & Times...



Saturday, 12 September 1987

9:00 AM to 9:45 AM

Not determined at press time. Check the overheads in lobby of Infomart.

10:00 AM to 11:00 AM

AUDITORIUM

* PARADOX *

Featuring Network PARADOX 2.0, Relational Database for the LAN Environment. People from ANSA will demonstrate the product with heads-up comparisons to major competitors.

Scheduled SIG times could change. Check the Bulletin Board just before the meeting. Check room numbers in lobby at INFOMART.

<u>8:30 - 9:55</u>	<u>9:30 - 9:55</u>	<u>1:00 - 1:55</u> continued
Beginners	Orientation	Business Applications
<u>9:00 - 9:55</u>	<u>11:30 - 11:55</u>	Communications
Assembler	Orientation	Data Bases
DOS	<u>12:00 - 12:55</u>	LOTUS
ENABLE	C Language	Personal Finan. Planning
Graphics	Turbo Pascal	w/Stock Mkt Investing
Hardware Solutions	<u>1:00 - 1:55</u>	<u>2:00 - 2:55</u>
Science/Engineering	Artificial Intelligence	BASIC Applications
<u>9:00 - 10:55</u>	Astrometry	Advanced Programmers
Genealogy (w/Apple)		dBase Programmers



North Texas PC Users Group
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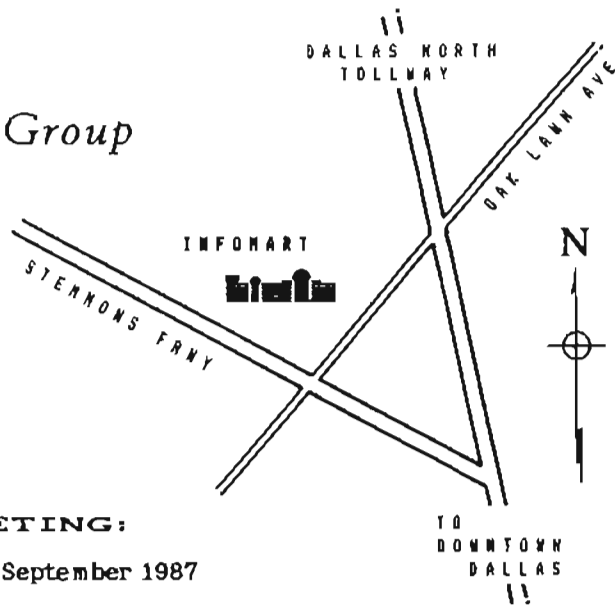
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