North Texas PC NEWS

North Texas PC Users Group, Inc.

Deadline:

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

Circulation:

North Texas PC NEWS circulation was 2,550 last month.

Member distribution was 2,107; remaining copies were distributed to PC user groups around the country, and to advertisers, prospective members and others with common interests.

The editors of North Texas PC NEWS use Microsoft Word for Windows. This issue of North Texas PC NEWS was composed using Corel Ventura 4.2, Corel Draw 5.0, Arts & Letters Express 5.0, Micrografx Picture Publisher 5.0, Adobe Photoshop 3.0 and HP Scanjet IIp. Repro was printed on a HP LaserJet 4M. Principal typefaces include: Palatino, Helvetica, A&L Cafe, French Vogue, Lithos and Mistral.

DEADLINE
Copy deadline for March
North Texas PC NEWS:
Saturday, February 10th

Meeting Dates:
February 10, 1996 – 2nd Saturday
March 9, 1996 – 2nd Saturday
April 20, 1996 – 3rd Saturday

Member

APCUG

In this Issue . . .

PROGRAMS & PRESENTATIONS . . .

NTPCUG

Timothy Carmichael

9:30 AM - 10:55 AM *Windows NT 4.0 Workstation*

Microsoft Corporation

Windows NT Workstation, Version 4.0, will be demonstrated and discussed in this special user group tour by Microsoft. This new version of Windows NT will have the Windows 95 interface, Telephone API, Unimodem and much more. The product strategy and future direction of Windows NT will be detailed, and attendees will have a chance to sign up for a Beta release. Free copies of Windows NT Magazine will be available along with discount subscription coupons. There will be a drawing for free products, too. *

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

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

February

SIGs **NTPCUG Special Interest Group Meeting Schedule**

8:00 - 8:55
Internet — WEB Developers
Microsoft Networking
Visual BASIC - Beginning
MultiMedia

9:00 - 9:55
DOS
Emerging Technologies
General Genealogy
Hardware Solutions
Internet-Advanced
Introduction to the PC
Quicken
StarText
Visual BASIC
Windows Applications
WordPerfect/DOS

9:00 - 10:55
Dallas Corel

10:00 - 10:55
BASIC — Classic
(Language)
CAD
Fox Pro Database
Graphics
Networking
Internet-Beginning
PAF-Genealogy
Paradox
Introduction to the PC
WordPerfect/Windows
UNIX

11:00 - 11:55
BASIC Programming
— Beginning
Assembly Language
Brother's Keeper
CAD (Cont.)

11:00 - 11:55 (Cont.)

Investors
Graphics (Cont.)
MS Works
OS/2 — Q & A
Roots III/IV - Genealogy
Spreadsheets
Windows Developers

11:30 - 11:55
Orientation

12:00 - 12:55
Alpha Four
C++/Advanced C
Communications
Delphi
Desktop Publishing
Health Care Computing
OS/2 for End Users
Introduction to the PC
The Master Genealogist

1:00 - 1:55
Access
ACTI

1:00 - 1:55 (Cont.)
Business Apps./DAC Easy
DATAFLEX
C++/Beginners
Word for Windows
OS/2 Developers
Introduction to the PC

2:00 - 2:55
Advanced Programmers
QuickBooks
Application Developers
(OLE and ODBC)

Please consult the BBS and remember to check the overhead display in the INFOMART lobby for latest SIG schedules and room locations.

A Day In The Life

So what does the President of the NTPCUG do at a Saturday meeting. I thought I had better write it down in case I ever need to explain my time to Jessica Fletcher. During the day, members stop me with questions and comments about computers and the users group. I enjoy meeting these people, they are what the user group is all about.

8:00 AM

Arriving on Saturday, January 13th was a trick because of Market Hall Trade Show that had traffic stacked up in all directions. Checking in with the exceptional greeter, **Linda**, and one of our DFW Xchange coordinators, **Robert Hilliard**, I am informed that **Stuart Yarus** will not be assisting with the show today because he is traveling to Pennsylvania for his mother's 75th birthday. 78 degree temperature here, 78 feet of snow in Philly, I'm glad I am here.

At the booth, the Volunteer Coordinator, **Claude McClure**, is setting up with the 8:00 volunteer staff. Everything is under control. **Alex Lilley**, the SIG Coordinator, has been here for at least an hour and a half setting up the SIG computers, labeling the projection panels, and getting out the room schedules. Other volunteers help in these efforts.

Connie and **Reagan Andrews** arrive with the goodies collected at COMDEX for the 11:00 business meeting giveaway. Nothing for me to do but go to breakfast. The biscuits and gravy are great and the coffee is hot.

9:00 AM

Jim Hoisington and Reagan Andrews leave the cafeteria to MC the DOS SIG. I hang around and talk with our former treasurer about his impending nuptials. A former NTPCUG President, friend of Bill Gates, and master of VROOM technology drops by to discuss networking a florist with Lantastic, Windows, 10base2, and SCO Unix. I wish

him all the luck in the world. Another friend comes by to discuss Novell CNE training classes. I look at my watch and realize I promised to be somewhere at 10:00.

10:00 AM

One of the SIG Leaders for the Introduction to PC's could not make it at the last minute and I agreed to teach the class on Word Processors. No class notes, no preparation, okay here goes "You put words in, you get the same words out." Now, what do I talk about for the remaining 54 minutes? Actually a good class, with 18 attending and asking well-thought out questions.

11:00 AM

I rush to the business meeting in the auditorium. During December and January we give away the loot we collected at Fall COMDEX, so turnout is greater when there is free stuff. Normal business at the business meeting includes reports on Disk of the Month, SIGs, the Newsletter, the BBS, Membership, the Program Chairman's report on next month's meeting, the Volunteer Coordinator, job announcements, announcements from the attendees, and finally the free stuff. All prize drawings are open only to members.

Certain people, who shall remain unnamed, did not win, but as I recall they showed up in December for an expected Broderbund presentation only to find Adaptec talking about SCSI adapters. They proceeded to cut-up in the back of the auditorium and prayed they did not win the drawing because they would not have the slightest idea what to do with it.

After the business meeting, I teach the Orientation session for new members, people who are new to Infomart, or anyone who hangs around in the auditorium. Those who hang around to talk are escorted out by my ever-diligent Sergeant-At-Arms.

New Paradox 7 for Windows 95 and Windows NT
Adapt to your environment effortlessly.

Store a wide range of data types from number, text, date, and time to graphics and multimedia.

Build all levels of business solutions from single-user PC-based applications to LAN-based or client/server applications.

Use OLE Automation and OCX controls to make Paradox work seamlessly with other Windows applications.

View and organize your data with Windows 95–hosted features such as new tab-style controls in the Visual Form Designer.

Create customized forms displaying data from multiple tables with visual design tools— no programming required.

Customize your working environment— see the toolbar how and where you want it.
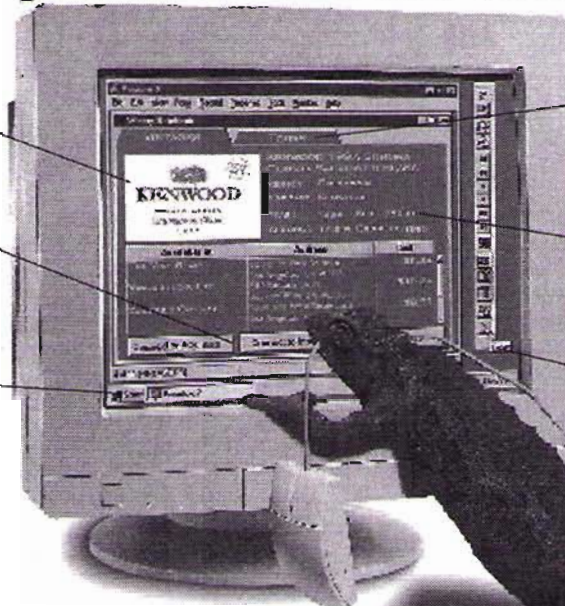
"What *InfoWorld* has, for a long time, considered to be the hands-down best Windows database… is now more powerful than ever as a development environment."
—*InfoWorld*, October 16,1995

Evolution on demand

Paradox° 7 will help your transition to a whole new world. Find out for yourself why *InfoWorld* says, "This is the first Windows 95 application that is improved enough to be a compelling reason to upgrade from Windows 3.x to Windows 95 and Windows NT."

Unparalleled compatibility

With enhanced Experts and a new Windows 95 look and feel, you'll see the benefits of the new 32-bit technology from day one. Paradox 7 is compatible with previous versions of Paradox for Windows, so any data or applications you created in Paradox for Windows can be used in Paradox 7. You can even share your data with other people who may still be using previous versions of Paradox for Windows on the same network server.

Best suite integration

With new act-alike menus and toolbars, you'll appreciate the seamless integration of Paradox with Novell PerfectOffice 7 and Microsoft Office 95.

Powerful development language

Paradox 7's Integrated Development Environment is unsurpassed. New developer tools such as the enhanced program editor make ObjectPAL™ programming a snap. The editor boosts productivity with features such as color syntax highlighting, block indent, keystroke record and playback, and other tools. Our new high-performance 32-bit Borland® Database Engine (BDE) technology is at the heart of all Borland products. That means when you use Paradox 7, you can access more diverse data faster and easier than with any other database.

Best network solution

If you use Paradox on a network, you'll appreciate its LAN support. With its record-locking capabilities, Paradox allows you to create high-performance network applications, making it your best networkable database choice.

"It is without a doubt a must-have for all serious Paradox users and developers."
—*InfoWorld*, October 16,1995

Try Paradox 7 risk-free

If for any reason you're not fully satisfied, simply return it to Borland within 90 days for a full refund.

Borland
Making Development Easier

What's New

New! Enhanced OLE support lets you categorize, control, manage, store, and share virtually any type of data—including documents, spreadsheets, and graphics.

New! OCX support means that developers can now create applications that use OLE custom controls such as Internet Web browsers, communications packages, or grid and graphing controls that seamlessly integrate with Paradox.

New! More than 100 new ObjectPAL methods give you the most powerful database language available.

New! Object Explorer helps you accomplish more by accessing properties, methods, and events, no matter what your level of expertise.

And – The 1996 Winners Are:

The North Texas PC Users Group, Inc., President-Elect and five Directors for 1996 were elected at the January 13, 1996 Meeting and by mail-in ballots submitted by members. Votes were tallied by John West, NTPCUG Secretary.

NORTH TEXAS PC USERS GROUP – 1996

PRESIDENT-ELECT & DIRECTORS
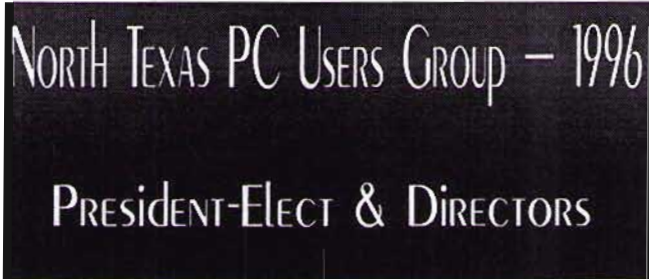
Jim Hoisington, shown at right, immediate past president was elected to be President-Elect for 1996. This will be Jim's seventh term in this NTPCUG office

Newly-elected members of the NTPCUG Board of Directors, shown left-to-right below, are:

Reagan Andrews, Timothy Carmichael,

Doug Gorrie, Alex Lilley and Fred Williams.
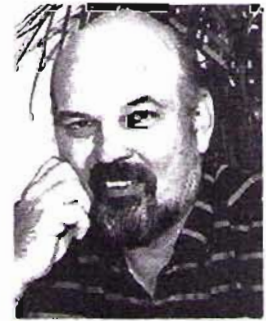
12:00 NOON

Lunch includes a discussion of children and what joys they bring upon their parents, big bags of potato chips, and what to do about a member who openly proclaims that he pirates software. Per the NTPCUG Bylaws, we do not tolerate software pirates and the penalty is expulsion from the group.

1:00 PM

Intuit is showing Turbo Tax in the Auditorium, and I promised my wife that I would try to win her a copy. **Timothy Carmichael** has brought his home computer because the Intuit rep. forgot his. The presentation is as interesting as tax stuff can be, but I am tired and Mac's snoring wakes me up, or is it vice versa. No luck on the drawing, so I guess I'll have to splurge $23.99 at Office Depot.

2:00 PM

Back at the Booth, Claude is starting to pack up, **Jean Waldrup** is signing up new members, Alex is trying to round up all of the equipment, and the

PREZ SEZ ... Ctd.
Andy Oliver

end-of-the-day stragglers are gathering to regale in the glories of the day.

3:00 PM

The Advanced Programmers Boxing Match lets out. Our club Secretary, **John West**, comes by to pick up the ballots from the election. I go out to the car for WD-40 to stop the squeak on Claude's dolly, and then I depart, never having visited the vendor area downstairs, for which Mrs. O. is eternally grateful.

I'll see you at the February meeting.

Andy

Visual Basic 4.0 and Object-Oriented Applications

The usual criteria for determining whether a programming language is object-oriented are abstraction, encapsulation, inheritance, and polymorphism. There are significant numbers of programmers who are militantly pushing Microsoft to make Visual Basic into a full-fledged object-oriented programming (OOP) language, but Microsoft has never acknowledged OOP as a goal for Visual Basic. Visual Basic 4.0 includes functionality that can be used to implement some of the OOP criteria and it seems reasonable to assume that future versions of Visual Basic will include more, but there are no guarantees!

The creation of object-oriented applications requires two things, object-oriented design (OOD) and object-oriented programming (OOP). The topic of OOD has been around for some time and generally described with the C/C++ programming language. A new book has just been released entitled *Doing Objects in Microsoft Visual Basic 4.0* by Deborah Kurata and published by Ziff Davis Press. The ISBN is 1-56276-337-7 and retail price is $39.95. I have not read the entire book yet, but the few chapters I have read include an excellent introduction to OOD and OOP principles. I hope to have a complete review of this book soon. In the interim, I can say that NTPCUG member and Visual Basic Developer L. J. Johnson recommends the book very highly.

Visual Basic 4.0 begins the process of including OOP features to further empower Visual Basic programmers. Therefore, we must begin the process of understanding OOP and how OOP works in Visual Basic 4.0.

What are Objects?

Objects are elements of an application. A deck of cards object and a chips object would be appropri-

The VISUALBASIC CORNER

by Jim Carter

ate objects in a poker game application. Patients objects and health-care providers objects would be appropriate objects within a Medicare/Medicaid application. An application can utilize objects as general or as specific as the application designer requires. For example, an object can be as general as a planet object or as specific as an element object (from the table of elements). The degree of specificity is determined by the application designer to maximize the power of OOP.

All editions of Visual Basic included objects. The forms, controls, add-on controls etc. are all objects. Visual Basic 4.0 brings us the capability to create custom objects without having to resort to another language. Once this object is defined in terms of properties and methods, it can be used in multiple applications. For example, the deck of cards object in the Poker application would work just as well in a Bridge or Go Fish application.

Visual Basic 4.0 Has Class!

One of the most significant additions to enable object-oriented programming (OOP) in Visual Basic 4.0 is the Class module. Visual Basic 3.0 utilized form modules (.frm) and standard modules (.bas) to contain code. Visual Basic 4.0 adds the class modules (.cls) which we use to define the properties and methods for a set of custom objects.

Specific OOP Features in Visual Basic 4.0

Next month I will describe some of the significant OOP features in Visual Basic 4.0 and how they benefit the programmer. In the meantime, if this subject really interests you, get a copy of *Doing Objects in Microsoft Visual Basic 4.0* by Deborah Kurata.

Jim Carter

Windows Programming With Microsoft *Visual C++ 4.0*

by Arthur English

For the past three years, I have led the Windows Developers SIG and also been an active windows developer specializing in *Microsoft Visual C++.* In 1993, I started learning C++ (you are always learning and you never stop) using Visual C++ 1.0. Visual C++ is now up to version 4.0 and has improved dramatically. If you used airplanes as an analogy to software development systems, Visual C++ 1.0 would be a Cessna and Visual C++ 4.0 would be a Boeing 747.

Microsoft's Visual C++ 4.0 application development software offers many excellent features including a powerful debugging system, a new component library, enhanced wizards to help you create programs, support for both *Windows NT* and *Windows 95*, and a new integrated developer environment called *Microsoft Developer Studio.*

Developer Studio goes beyond C++ and also integrates the FORTRAN compiler and Microsoft Test. Developer Studio can also access the more thorough help files of the Microsoft Developer Library. Integration with the on-line help is handled beautifully. At some point in the future, Microsoft also plans to integrate Visual Basic into Developer Studio as well.

Many new features in *Developer Studio*

Developer Studio has many new features to help you create windows applications quicker and easier, but it is also much more complicated to use than the previous development systems. Visual C++ 4.0 has a steeper learning curve than previous Microsoft development systems, but the new Visual C++ 4.0 tools and features will be worth the extra effort it takes to master this new development system.

Visual C++ 4.0 works only in the 32-bit Windows NT or Windows 95 environment, so 16-bit Windows 3.x developers will have to continue to use older versions (1.5x). Visual C++'s new Developer Studio offers

many improvements to the interface of earlier versions. The most prominent new feature is the tabbed project management window that lets you view your project as a hierarchical class view, file view, and resource view.

Class view tab

The class view tab displays a class-oriented view of your work. The class view saves you from worrying with the details of managing files and lets you concentrate on the classes and functions that constitute a program's functionality. The class view is built on a browser technology, but unlike previous versions, this browser does not require a compile step. Rather, it is built as the project is loaded or developed. From the hierarchical class view you can right-click on a class object to add and inspect member variables and functions. You can add new classes to the view and alter the classes that are already there. I was able to add new member functions, for example, with just a few mouse clicks. I was impressed with how well the system kept the class view display up-to-date with the program code.

File view tab

In the same window, the file view tab on this window lets you view the project in the traditional way (source and header files). Another tab displays a program's resources, arranged by type in a tree display. Double-clicking on any resource object leads to the associated editor for modifying the resource, such as a dialog or menu editor.

Since the new class view feature was added, the old browser functionality has been turned off by default. The primary reason for this is compilation speed. It can take up to 20% longer for you to build your project with the browser turned on. Although I like the new class view, I find that I use the browser more than the class view in my day-to-day work. When I am working on a program, I am constantly traversing through the program code using function key F12 to jump to where a variable or function is defined or

Microsoft *Visual C++ 4.0...* Ctd.

Shift+F12 to locate where it's referenced. My advice is to use both features and get a faster PC to make your programs build faster.

Starting a new C++ program based on MFC continues to be easy using the AppWizard, which steps you through some rudimentary questions about your application and then writes the necessary code for you. Clicking a check box, for instance, adds the code for including docking toolbars, implementing OLE, or choosing database options. Version 4.0, however, goes the extra step of allowing you to customize the AppWizard. This is a useful capability for supporting corporate standards. Previously, the AppWizard saved a lot of time by generating a basic application. Now you can build custom AppWizard templates to build custom applications.

With Version 4.0, you can change basic files just once and generate a modified AppWizard (using yet another Wizard) that uses your files as a template for future projects. Visual C++ also includes an API for building an AppWizard from scratch.

As before, MFC code can be customized with the ClassWizard, which allows you to hook code into the framework's events. New to Visual C++ 4.0 is the WizardBar, a very Visual Basic-like way to select an object and edit its event code right from the frame of the editing window. I found this to be a very efficient and addictive way to create event handlers for my program.

Arcada ERRATA

Sharp-eyed readers may have noticed in the *Arcada Backup for Windows 95* review that the screen shot printed for illustration had small box stating "No Device Found." That was a small oversight on my part. I had disconnected the Conner drive before writing the article, and forgot when I deciding I needed a screen shot of the Arcada program for illustration. Earlier, on a tip and advice from Etoine Shrdlu, I transferred the Conner drive to an external SCSI box to test its portability between the three PC's we have with external SCSI connectors. How that was accomplished — and why — can be found in Etoine's tip/note in the March issue.

When I discovered the screen shot oversight, did an [Alt]+[Print Screen] while running the PC after the external SCSI box had been disconnected. That's why the message in the Arcada manager appeared.

Reagan Andrews

New debugging features

No discussion of Visual C++ 4.0's feature set would be adequate without praise for the improvements to the product's integrated debugger. Two noteworthy innovations stand out: DataTips and the Auto tab of the debugger's variables window. DataTips are like tool tips, but instead of describing what a button does, they display the value of a variable (even a structured variable) while the debugger is running. By just moving the mouse pointer over a variable or expression you can instantly see its value. The Auto tab displays the value of all variables used in the current and previous statements, as well as the return value of a function once you step out or over it.

The new Visual C++ debugging features show a real attention to detail. The new watch window is also tabbed. You can easily organize your watch variables on separate pages and switch between them by just clicking on the tab. You can easily add variables from the source window to the watch window using drag-and-drop.

New Component Gallery

The new Visual C++ 4.0 Component Gallery is a major improvement in code reuse. This tool lets you incorporate C++ classes and add-ins (such as OCX controls) into multiple projects. When you plug existing classes into an application, Component Gallery automatically includes all the required files. In fact, using OCX controls with Component Gallery is almost as easy as using the old VBX standard.

The idea of building something big from smaller components shouldn't preclude the option of removing a component or replacing it with a better implementation. Unfortunately, that's the case with the Component Gallery. Though the gallery makes it easy to add a component to a project, it does nothing to help should you decide you no longer want it included. Short of using version control, I could find no simple way to extract a class component from a project once it was added. Just as disturbing, I found, was the fact that the gallery has no features for helping you organize or group components or assure that existing components aren't accidentally overwritten by the installation of older components.

In essence, I was looking for version control for the component gallery. And though that doesn't exist, Visual C++ 4.0 is far more hospitable to working with ver-

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Microsoft *Visual C++ 4.0...   Ctd.*

sion control systems for protecting your source code. The package works exceptionally well with *Microsoft Visual SourceSafe 4.0* (not included), integrating tightly with the Developer Studio.

Most C++ developers writing programs for Windows rely on an application framework to mask the complexity inherent in Windows applications. Visual C++'s framework is called the *Microsoft Foundation Classes (MFC) Version 4.0*. For some reason in the past, Microsoft did not always ship a version of MFC that had a release number that matched the Visual C++ compiler. For example the previous version of Visual C++ was 2.2 and MFC was 3.0. Now both version numbers are the same. MFC version 4.0 is a significant release of the Microsoft application framework and not just because the Visual C++ and MFC version numbers finally match. Microsoft has made significant changes to MFC.

MFC 4.0 is the latest 32-bit version of Microsoft's application framework for Windows. If you are a Windows programmer, the Microsoft Foundation Classes (MFC) can vastly increase your productivity. With MFC, you can access 120,000 lines of pre-written C++ code from a unified and powerful library

Over the last three years, I've used MFC to write applications for both Windows 3.x and Windows NT. In spite of the significant differences between these two operating systems, and the differences between Microsoft's 16-bit and 32-bit C++ compilers, I noticed that there wasn't much difference between my 16-bit and 32-bit MFC code. I used the same MFC classes in my 16-bit applications as in my 32-bit applications to create windows, handle messages, recover from errors, read from files, deal with databases, build collections, and write OLE code. And the reason for this similarity is because the 16-bit and 32-bit versions of MFC have pretty much kept in step with each other.

There were some differences. Only the 16-bit versions of MFC (versions 1.x through 2.x) support *Visual Basic* controls (VBXs), while multithreading support and template-based collection classes are exclusive to the 32-bit versions since their introduction in MFC 3.0. Exception handling falls somewhere in between both versions support it via MFC's exception-handling macros, al-

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though genuine C++ exception handling is available only if the compiler supports it (Microsoft's 32-bit C++ compiler does, its 16-bit compiler doesn't).

Differences between 16-bit & 32-bit versions

Significant differences between the 16-bit and 32-bit versions of MFC emerged early in 1995, when MFC 3.1 (that is, the 32-bit version) introduced 13 new common control classes in anticipation of Windows 95 (and Windows NT 3.51). This marked a significant split in MFC, since these classes would not be backported to the 16-bit version. VBXs still gave the 16-bit MFC developer far more controls to choose from. And in my opinion, VBXs were more important than the multiple threads, improved exception handling, and template-based collection classes you got with MFC 3.x - features that made your code more robust - because VBXs got your application to market sooner.

Container support for OLE

MFC 4.0 changes all that. It provides container support for OLE custom controls (OCXs). Now, your Win32 MFC applications can use OCXs-as well as create them. If it offered nothing else, MFC 4.0 would be significant for this one feature. But MFC 4.0 offers lots of other features, such as improved Windows 95 common control classes, new view classes, new common dialog classes, new multithreading classes, and new database classes. MFC 4.0 also offers improved DLL models that are more memory-efficient than before, and the Control Development Kit (CDK) used for building OCXs has been merged into Visual C++ 4.0, so there is no need for separate CDK classes.

'Small' features also important

MFC 4.0 also contains many smaller features (that can also be significant depending on the project you are working on) such as greater use of message reflection in child controls (so your child controls can handle their own paint messages, rather than letting the parent do it, leading to better encapsulated child controls), CString reference counting (which improves performance by reducing heap fragmentation), improved static linking of MFC applications (so your app

doesn't need to ship with any DLLs), and three new CView classes (CListView, CRichEditView, and CTreeView) that make it easier to use the CListCtrl, CRichEditCtrl, and CTreeCtrl classes in document-view architecture applications.

Database Support

Database interaction has been emphasized in Visual C++ 4.0 with the addition of DAO (Data Access Objects), a new set of classes in the Microsoft Foundation Class library that provides convenient access to the Microsoft Jet database engine (shared with Visual Basic and *Microsoft Access*). These DAO classes are an alternative to the ODBC classes introduced in MFC 2.5.

DAO is basically an object API for Microsoft's Jet database engine. Jet is the DBMS used in Visual Basic 3.0 and 4.0, and Microsoft Access. Jet is implemented as a DLL, and exposes DAO through an OLE automation (OA) dual interface.

In my view, DAO means "Microsoft" and ODBC means "everyone else." MFC's DAO classes are primarily for developers working with Jet's MDB files, like those created by Microsoft Access. The ODBC classes allow you to work with ODBC data sources (translation: databases from other vendors in addition to Microsoft). The reality is DAO

classes offer better performance for Jet databases, and a richer API for database operations.

If you ever thought that the MFC ODBC classes did not go far enough, you will be very pleased with the MFC DAO classes. Why implement a richer set of database classes for DAO and not ODBC? Probably because it will fuel sales of Microsoft Access. Developers will want a copy of Microsoft Access to design the database schema. Your users will want to buy a copy of Access so they can produce custom reports form you database and do ad hoc queries.

Standard Template Library
Another nice addition

Another nice to have addition to Visual C++ is the Standard Template Library (STL), which is now included with the compiler. STL has classes and algorithms for all kinds of classic data structures. Using it means not having to rewrite code you have written many times before. I expect that STL will be more and more important in the coming months, so getting up to speed with it now is a good idea. It's nice to see Microsoft adding support for this emerging standard.

All things considered, Microsoft Visual C++ 4.0 advances the state of the development art. Its emphasis on component development is laudable, and its debugger is elegant and powerful. Although 16-bit developers are left with the 2-year-old Visual C++ 1.52c, those writing code for Windows 95 and NT will find a lot to like in this new version.

Arthur English

About the author

Besides leading the Windows Developers SIG, Arthur English is founder of Digital Artistry, Inc., a company specializing in Microsoft Windows 95 and Windows NT software development and consulting. Mr. English is the developer of *Lightning Power Controls 95* distributed by Lucid Corporation. He is a frequent speaker on object-oriented technology at COMDEX/Windows World and is also a member of the Windows World advisory board.

He is the author of *Advanced Tools for Windows Developers* published by Sybex. You can reach Art at his Internet address art@artistry.com or by calling (214) 232-3310.

'Call to Undefined Dynalink'

. . . . Huh???

by Judy Griffiths

Printshop has always been a trouble-free application for me. When the new **CD Ensemble II** came out, I cheerfully ponyed up my $64. at my local retailer. (Of course, now it's $25. in the vendor area, but I don't want to talk about that!)

It worked fine for months. Then, being a clipart junkie, I blew more bucks on a package from Clickart titled *Incredible 25,000 Image Pak*. I followed their simple instructions and ran setup from the CD.

Presto, I had 25,000 incredible images.

Addictions have a price...

A couple of days later I went to run Printshop. As soon as I tried to open any project or create a new one, a mocking box appeared saying "Application Error - Call to Undefined Dynalink." I think you can guess how meaningful that was to me.

I tried reinstalling Printshop several times with no improvement. I'm still using "Real Windows," as one SIG leader calls it, not Windows 95. I don't have a commercial uninstaller, just a shareware
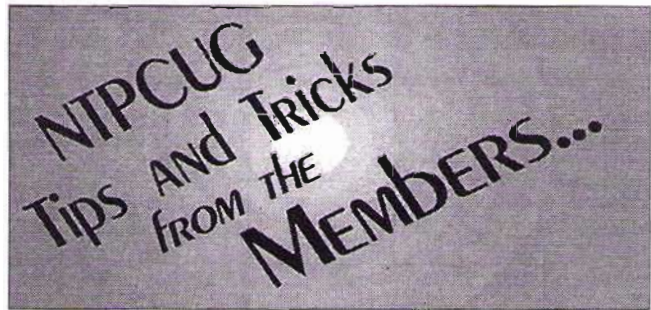
one that lists the changes in a text file. I tried to figure out from this what Clickart had changed, but my eyes crossed by page ten.

Next I headed for the bookstore to see if I could find out what the heck a "Dynalink" was, and how to define an undefined one. Most of the Windows books dealt with 95, but I found a few left that covered "Real Windows."

However, "Dynalink" was nowhere to be found in any of them. Of course, there were no books on Printshop as the publishers assume any idiot can run Printshop without a 300 page book.

Dreaded call for help...

There seemed to be no choice but to make the dreaded call to Broderbund tech support. After a relatively short time on hold, the tech immediately said "You've installed something else, haven't you?" so apparently it's a common problem.

The resolution from them was to delete the following files:

    c:\windows\psd*.ini
    c:\windows\ctl3dv2.dll
    c:\windows\system\ctl3dv2.dll

Then Printshop was reinstalled and worked fine. (Image Pak worked okay too.)

Don't ask me what it all means. Much of Windows seems like voodoo to me. But I thought perhaps I could save some of you other clipart junkies a tech support call.

[Ed. Note: Judy's short article on her problems with one Windows program overwriting vital files for another Windows program with *older* versions is quite timely. This is a continuing problem for Windows users that apparently has no ready solution unless publishers adopt a standard of placing all DLL's, etc. in the program directory and leaving the Windows directory alone.]

We came, saw, conquored, joined, split And plundered, pillaged and ravished — It was a very confused year

Is it "Back to Basics" time?

The PC industry has experienced so many mergers/splits/acquisitions and takeovers since October, 1995, that I both lost count and no longer am sure who owns who. Rumored acquisitions by year's end were staggering and the rumor mongers included almost everyone with a company (or, at least letterhead) on one side or the other of the acquisition/takeover equation(s).

January didn't bring any relief either. Now we have Novell as rumored takeover target — all while Novell talks about refocusing on their core business (LANs) and is quite openly seeking a benevolent buyer for WordPerfect's remains. Both IBM and Oracle are touted as interested in either Novell or WordPerfect.

Apple is back on the "suspect" list according to lots of media experts who quote the internal management strife/woes/blundering, etc., and suggest that being bought out by some other company is only solution to the problem(s) currently experienced by the Cupertino-based company. Again, rumor mongers point at Sun, IBM, ?Oracle? and add Japan's Sony and Toshiba to the list of prospective buyers. Sony would be interesting as a suitor, especially since they've been unable to make any significant inroads into the PC business despite several valiant efforts.

Where's DRAM headed? Prices dropping rather Than predicted increases

Shortages and resulting increased prices for DRAM forcast by media pundits (and me) apparently have been "somewhat exaggerated." Would appear to be a function of several factors including a very significant increase in DRAM manufacturing capacity over the last year, and much slower adoption of Windows 95 by corporate and individual endusers than was anticipated by media (who may have read too much of their own "hype" for the new Windows last year.)

Have seen a gradual reduction in prices for larger, i.e., 72-pin,

8M and 16M SIMMs, and a curious price "hold" on the older, 30-pin modules. Understand there has even been a mild shortage of the 30-pin units.

A 'TV Experience' On the Internet? Oracle thinks so

Would you buy a PC with no storage medium? That's really a semi-smart terminal and was IBM's idea for the original PC introduced in 1981. It's not a new idea. Does appeal to Oracle, though.

Heard a lot of talk about Oracle's planned "$500 Internet Computer" at Comdex with considerable heat involved in the discussions. Heard similar "heat" and disbelief when Jim

and I broached this subject in the DOS SIG at the January meeting. Seems strange to hear about this in a time of 100M floppy disks, 1.6G EIDE hard drives selling for less than $250, and massive tape backup units.

Internet-only PCs?

What Oracle predicts is a massive demand for an "Internet-only" PC that is truly a "push one button and go" machine.

The Variety Store

A personal view of the PC industry, new hardware operating systems, software and applications

by Reagan Andrews

That's a "TV experience" — turn it on and it plays, i.e., takes the user to the Net (probably restricted to the World Wide Web) with no need for any user intervention/knowledge other than where the "On" switch is located.

People who've followed the progress of the PC since its introduction shake their heads in disbelief at the concept. We/they use the Net, but demand ability to download and store the fruits of our struggles and searches. We want the ability to shape our own machines to our desires (with pocketbook-based limitations) and the utility of "off-line" work and productivity applications.

Is that the general public? — Probably not.

The PC has become a consumer-driven platform and the broader market is composed of a lot of people who don't want to "learn" about PC's, but do want to access the Net, play games and participate in the "edutainment" experience. That's a large part of the success of the Apple Macintosh, and the reason for the *Windows 95* interface. Users really do want simplicity and freedom from concern over the contents of the computer box.

Mac's success based on Erasing 'the box'

I'm convinced that was a large factor in the success of the Macintosh in the arts and graphics community after its birth in 1984 — the Mac faded into the background while the art/graphics that could be created/manipulated came forward to stage center.

Graphics artists adopted Macintosh versatility and Ease of use rapidly

These artists and designers didn't care about MIPS, CPU's, DRAM and all the other impedimentia involved in using a PC. Apple owns this market now.

If you don't believe it, take a quick tour through the graphics service houses in the area. I know of three (locally, i.e., Dallas) that can work with PC-based graphics files. Two of the three admit that Mac-based work is the bulk of their business, though.

In spite of massive success, Apple Computer Company Ravaged by media and time...

Apple — what a sad story this month! After pioneering (i.e., 'copied' Xerox's early efforts at a GUI) the 'user-friendly' GUI with the Mac, Apple has fallen on hard times according to lots of media coverage in early January.

Media cite the internal roiling and (probable) savagery among high-level management as source for Apple's economic troubles, and suggest wholesale replacement of the bunch, including current CEO Michael Spindler. Apple hasn't helped matters much with a series of confusing and conflicting PR releases more appropriate to Byzantium than California. Well, maybe not, come to think of it.

Going for the 'High-priced spread' Apparent Apple future

Last blurb seen indicated that Apple would cast-off the 'economy' computer lines in favor of the 'high-priced spread,' i.e., the expensive Power PC-powered Macs. After finally allowing clones to operate in the Mac sphere, Apple is staging a broad retreat away from the 'People's Computer' to the lofty heights currently close to those inhabited by Sun, Hewlett-Packard and DEC.

That's pretty stiff competition. I thought that IBM/Motorola/Apple was having some problems producing the really-fast 604 CPU chips that actually could compete with the CPU's from the triad above.

In addition, Sun was named as a serious contender for an Apple buy-out, but evidently dropped out when Apple's stock prices plunged toward the cellar in January after Apple made public problems with cash flow and mounting inventory of un-sold Macintoshes after a disappointing Christmas season.

Supposed to be warehouses in Cupertino, CA, filled with Macintoshes — in addition to similarly un-loved and un-sold *Newtons*.

Why would Sun want Apple? Question of the year as Sun Seems unable to lose ...

Sun, on the other hand, is coming off a very, very good quar-

ter with record sales and profits. Media ascribes this to Sun's Internet success as the dominant vendor of Internet servers. The new, 128-bit *UltraSPARC* CPU may have a bit to do with Sun's success as well.

Couple this with the success of *Java*, Sun's powerhouse Internet authoring ap, and it really doesn't make too much sense — unless Sun is worried that the Power PC-Macs will make major inroads on its workstation territory. Since Macs are seen as *the* graphics platforms, would think that Silicon Graphics (MIPS-powered workstations loved by the Hollywood crowd so far) would be a more likely loser.

486 Clones take a hit As Intel drops prices In turbulent quarter

AMD/NexGen and Cyrix took a nose-dive as a result of Intel's rapid price-cutting on *Pentium* chips. This was coupled with Intel announcements of planned production of 'regular' *Pentiums* in the 175 MHz - 200 MHz range and redesign of the *Pentium Pro* CPU following its lackluster performance in non-32-bit environments.

Cyrix stated they would write-off their current 486 inventory, while focusing their efforts on the "real" 64-bit *6x86* CPUs for the immediate future. AMD/NexGen is currently busy announcing a series of 120 MHz - 133 MHz 5x86 CPUs with built-in FPUs (Floating Point Units, i.e., math coprocessors.)

I always thought NexGen had a really dumb idea when the "math-hobbled" CPUs were announced — in addition to non-standard pin-outs for the chip.

Intel floods market with Dozens of Pentium, 'Super-Pentium' CPUs

Intel offers/has announced so many variations on the *Pentium* theme that it's almost impossible to keep up with the array.

If you think I'm confused, pity the poor consumer who will have to choose between *Windows 95*-optimized CPUs, *Windows NT*-optimized CPUs, and various permutations and combinations of video and multimedia 'enhanced' CPUs for a variety of platforms.

Stickers won't just read "Intel Inside", but will have to be more specific, i.e., this is the PC you need to really run *Doom* with 3-D video and sound...

But, what about those CPU 'Benchmarks' that are 10% 'Over-optimistic' says press?

Everybody uses benchmarks to prove their CPU/ Operating System/ application software offers the latest, fastest, most super performance.

So does Intel. Media says Intel has been 'fudging' and Intel "fesses-up." That's refreshing and a turnaround from Intel's handling of the FPU error last year — which made every Internet news site and almost all PC-related media shortly afterward.

Honesty? That's news

Intel admitted they may have been 'optimistic' in their inter-

pretation of the Pentium CPU's performance on "standard" CPU throughput tests. Test in question is the *SPECint92* benchmark ratings released by Intel for 100 MHz + *Pentiums* and *Pentium Pro* CPUs in recent media announcements.

Intel blamed the errors on a compiler bug according to *PC Week*, and stated that a corrected set of benchmarks would be released on Intel's Web site.

Compaq renegs, returns To 'Intel Inside' camp

Compaq announced it will return to the 'Intel Inside' camp in January. According to a story in the *Wall Street Journal*, Compaq 'flirted' with machines incorporating AMD CPUs and was a factor in the NexGen startup, but evidently gave up the struggle to find an alternative to the Intel lock on the PC CPU market.

This is a surprising note when AMD/NexGen and Cyrix both are ramping up production of *Pentium* clones that appear to outperform Intel chips at similar clock speeds. May be an admission that public has bought the Intel advertising campaign and is unaware of superior performance offered at some levels by the competing CPU chips.

What are all those green Cyrix 5x86 CPUs I see And what's best for me?

Just in case you haven't noticed, First Saturday and the

Disks of the Month for January

Note: All of these disks are distributed on 1.44M disk only

Disk 1028A,B. *Brother's Keeper 5.2 (3/94)* - Genealogy/Family Tree Information Author: John Steed, 6907 Childsdale, Rockford, MI 49341. Shareware fee: $ 45.00

BROTHER'S KEEPER is a set of programs that will help you organize your family tree information, and that will print the information in several ways. You will be able to print descendant charts that show how anyone in the file is related to everyone else. You also may print ancestor charts, family group sheets, alphabetical name lists, descendant trees, birthday and anniversary lists, ahnentafel charts, box charts, timelines, and customized reports.

For each person entered you may include a date of birth, a date of death, and three other dates, and you may store a place of birth, a place of death, and a place for three other events. You may record source information for every date or location. You also may enter two additional fields that you may define. Each person may have up to seven message lines of additional data or a text file of unlimited size containing additional data. Fields are available to store the person's current mailing address. Each person may have up to eight marriages stored. Each marriage record can hold a marriage date, a place of marriage, one additional date and place, and divorce information, and each marriage can have 24 children.

You will need 512K or more of RAM memory in your computer to run the BK5 program (640K is recommended). This program may have problems if you have memory resident programs running also. It is strongly recommended that you install the program and the data files on a hard disk

System requirements:

IBM XT (8088) or better IBM compatible; hard disk preferred.

Installation:

Copy both disks to your hard drive directory. Now at the hard disk directory, type BK5a, then type BK5b, then type BK5c, then type IN-STALL.

This shareware downloaded and submitted by North Texas PC Users Group.

This README prepared by Jan Parkhill, edited by Gene Carleton.

New Disks
...from the DOM Squad
by Jan Parkhill

Disk 1029.   CALLER IDS v5.3 (1/95) - Caller ID system for telephone. Innovative Computing, Inc., (Address not given) (301) 816-1049, (301) 770-3729. Shareware fee: $ 5.00

Caller IDS is a program designed to receive the CALLER ID signal sent by your local telephone company. The data is comprised of a Name, Date and Time transmitted via your phone line. The software, running minimized by Windows, will then compare the incoming data to a record of caller files (which you

build up as new incoming calls are received).

Caller IDS with then display, via a pop-up screen, the caller's name, telephone number and the date of the call each time you receive a phone call. Caller IDS will also works with multimedia sound cards to ANNOUNCE the incoming number. You can also pre-record any message or name and assign it to a preferred number. Can you imagine...a call that warns you of a MOTHER-IN-LAW ALERT from across the room?

Other features include:
• Supports Name Delivery

Service

• Built in PAGER SYSTEM (programmable per record)

• Caller History (Double click to see who and how many times they called)

• Address information. (Stores caller addresses, too)

• Prints reports (Call list, call logs and individual caller information)

• Compatible with Zoom, Supra and Practical Pe-

ripherals Caller ID modems.

System requirements:

286 or better IBM compatible, Caller ID from your phone company,

Caller ID interface or Caller ID compatible modem, Windows 3.x or higher.

Installation:

Copy all the files to your hard drive directory:

XCOPY A: C:\yourpath

In Windows, go to FILE, RUN and type C:\yourpath\ SETUP.EXE on the command line.

Shareware downloaded and submitted by North Texas PC Users Group.

This README prepared by Jan Parkhill, edited by Gene Carleton.

Disk 1030. *SoLaTor Suite v1.2 (3/95)* - A suite of five Solitaire card games Author: Howard Patch, 1710 Cherrywood Lane, Lindenhurst, IL 60046. E-mail: patcht@roundlake.baxter.com. Shareware fee: $ 5.00

Introduction

SolaTor Suite is a combination of five (5) solitaire card games for Windows 3.x and there is quite a challenge to these fast paced games. There should be a challenge for just about anyone in this mix of fine card games. The registration fee is also very affordable at $1 per game!

The five games included are:
• MATRIMONY Solitaire (also known as Nestor Solitaire)

• PATIENCE Solitaire (also known as Auld Lang Syne)

• THIRTEEN Solitaire (also known as Baroness or Five Piles)

• ACES UP Solitaire (also known as Idiot's Delight)

• ACCORDIAN Solitaire

If you have played Windows Solitaire and enjoyed that challenge from time to time, this

DOM DISKS ...Continued

Calling all ShareWare & FreeWare! Volunteer... And Get Paid for a Job Well Done!

Each month, the NTPCUG DOM (Disk of the Month) has an on-going need to find new shareware disks for the following month. The best way for this to happen is when our members VOLUNTEER to download new shareware programs. You may have found a new shareware program on a local BBS or the Internet, copied one from a CD-ROM disk you own, purchased a new disk from another shareware vendor or you may have a favorite shareware utility that makes your computing simpler each day.

VOLUNTEER to share it with us!!

Your NTPCUG is an organization founded and run with volunteer effort and spirit. What better way to support our Users Group than to volunteer to donate some shareware disks from time to time? Send one a month...or five! We encourage you to donate something each month; it's amazing what one or two donations can add up to over a month's time!! It takes so little time and we can use your assistance.

There are two easy ways to VOLUNTEER and deliver your shareware to the DOM. First, you can deliver your donation on an old disk and drop it off at the DOM booth during our monthly meeting date. (The DOM booth is located in the far right corner of the basement area during the computer vendor show.) If you prefer the "High Tech" method, you can attach a zipped shareware file to a private E-Mail message (put it to my attention) on the TBBS board and I will take it from there. This is an easy and enjoyable way to VOLUNTEER each month and it only takes a few minutes.

And, listen to this...!! Your name will be mentioned prominently in the README file, letting everyone know you made the software contribution. You also get bribed (read that as "paid") with a VOLUNTEER TOKEN good for any DOM disk of your choice! Don't forget to ask for your token...you've earned it.

README Help available

Furthermore, if you have a problem preparing a README file, don't despair...ask me for help and I'll pitch in to assist you! You don't have to be an author or technical writer!

Come on...pitch in...VOLUNTEER today! If you're new to our group and don't understand shareware, I especially look forward to speaking with YOU!!

Best regards,

Jan Parkhill
DOM Squad Leader
(214) 828-2216

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suite of solitaire games will be extra fun for you. And, if you have a sound card, there are plenty of exciting sound effects included.

System requirements:

386 or higher, with VGA Monitor, Windows 3.1

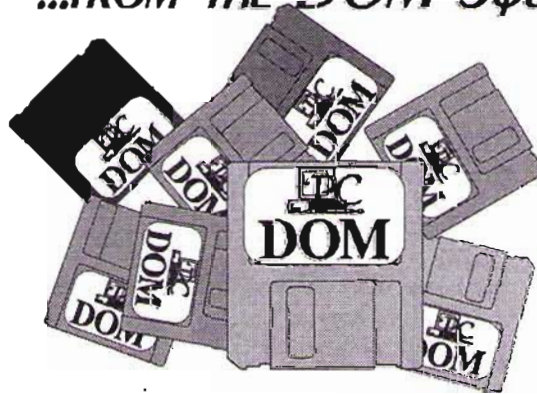Installation:

Copy all the files to your hard drive directory.

XCOPY A: C:\yourpath

In Windows, go to FILE, RUN and type \yourpath\SETUP.EXE on the command line.

Shareware downloaded and submitted by North Texas PC Users Group.
This README prepared by Jan Parkhill, edited by Gene Carleton.

Disk 1031. Wisdom of the Ages v2.1 (3/94) - Quotes for Windows, MCR Software, 6116 Merced Avenue, Suite 81, Oakland, CA 94611, (800) 767-6797. Shareware fee: $79.00

WISDOM OF THE AGES is an electronic book of quotes, sayings and ideas. It gives easy access to timeless knowledge from over 1,000 of history's greatest American, European and Asian minds.

Improve your letters, reports, proposals and speeches with 6,561 carefully chosen thoughts. The intuitive organization lets you find excellent ideas, clearly expressed, on any subject, with pinpoint accuracy and ease.

Quotations make everyone more authoritative. They add another voice. This program has been written about in USA TODAY, BYTE, PC MAGAZINE, etc. With our content rich selections, reviewers say you will:

"...communicate ideas brilliantly..."

"...add spark to your writing..."

"...be more persuasive when speaking..."

"...get the point across more effectively..."

The Quote-A-Day feature is positively addictive. Just copy the icon to Window's StartUp group. It will automatically give you 18 years of daily motivation and inspirational thoughts.

Other program features include: Two Toolbars, Three Iconic Subject Menus, Nine Filters, Browser with Six Indexes, Seven Sections, Quick Start Menu, Word Search, View Screen, Custom Fonts, Sizes and Colors, Context Sensitive Help, Subject Finder List Box, plus the ability to Add, Edit and Delete your own records.

System requirements:

The program will work with any IBM compatible PC running Windows 3.1 or higher with a VGA graphics card and hard disk drive with about 6.6MB of free disk space.

Installation:

Copy all the files into a directory on your hard drive.

XCOPY a: c:\yourpath

In Windows, Enter FILES, RUN and type c:\yourpath\SETUP on the command line.

Shareware downloaded and submitted by North Texas PC Users Group.

ADA UPGRADE

Portable Upgrades

Introducing the AIRport™ 2000 kit, for quick, wireless infrared file transfer and synchronization between notebooks and desktop PCs. Now updating your files can be as easy as changing TV channels with a remote control.

For PCMCIA connectivity, the 16-bit SlimSCSI™ kit is the best way to take advantage of the fastest portable peripheral connection—up to 2MB per second. It's complete with a 3 foot cable and Adaptec® EZ-SCSI™ software.

Upgrade your portable with up to seven SCSI peripherals via the parallel printer port with the MiniSCSI™ Plus kit. Or for data transfer rates of up to 1 MB/sec upgrade with the MiniSCSI EPP (Enhanced Parallel Port) adapter.

Desktop Upgrades

The Adaptec TotalConnect™ kit, with the AVA™-1515 host adapter, is an affordable solution for single users or small offices needing connection to a wide variety of SCSI peripherals—up to seven.

The TotalCD™ kit, with the AVA-1505 host adapter, is an affordable solution for users who simply want to upgrade to virtually any Fast SCSI-2 CD-ROM drive. For both internal and external CD-ROM drives.

The SCSI Direction™ kit with the AHA®-1522 SCSI host adapter connects up to seven SCSI-2 devices. Including audio, data and photo CD-ROM, removable media, magneto-optical, hard drives and scanners. All on one I/O slot.

SCSI delivers a wide range of peripherals.

For over a decade SCSI has been the performance I/O choice on the PC. And now it is becoming the easiest way to upgrade. With SCSI, adding peripherals is quick and easy. Just plug in the peripheral and install the related software. SCSI can support up to seven peripheral devices and is compatible with all current application software and DOS, Windows® 95, Windows NT™ or OS/2®.

The key to easy upgrades is SCSI !!!

" The wave of new standards and specifications hitting the market is unlike anything we've seen in the past.... we have to be much more careful in selecting our next computers because this confusion will affect a system's upgrade potential...you're probably going to have trouble trying to add a second hard disk to that system you just bought...

John C. Dvorak,

PRINTER   CD-ROM   MO   TAPE   SCANNER

PTEC
REPORT 1996

Adaptec
IOware
PRODUCTS

Performance Upgrades

The SCSI Master™ kit, with the AHA-1542CP card, is the hero of all SCSI host adapters for virtually any ISA PC. It delivers high overall system performance for multitasking operating systems like Windows 95 and OS/2 Warp.

This Adaptec FCI SCSI Master™ has already improved the performance of over one million PCI/Pentium-based PCs. With our PhaseEngine® RISC processor you'll be reaching transfer rates faster than a speeding bullet.

The PCI Ultra Wide SCSI Master™ kit is the fastest SCSI ever! Use it now for super fast PCI performance. And, when you upgrade to UltraSCSI peripherals, you'll be doubling the transfer rates and the bandwidth. For four times the I/O muscle.

NEW!

ZOWIE!

Build a Better Server

The AHA-3940 card unleashes server I/O performance with PCI multichannel SCSI. With two I/O channels, data transfer burst rates can reach up to 133 MB/sec. Each channel is powered by its own PhaseEngine® RISC processor to optimize performance and response.

Now that you're leaping buildings in a single bound, you're ready for remote SCSI management. Adaptec CI/O™ software remotely monitors and manages SCSI peripherals from any Windows® desktop. So you can keep track of the server down the hall, or across the world.

Until now RAID 5 was too pricey for smaller sized LANs. That's why we introduced the AHA-3985 RAID adapter. Our unique design eliminates the need for the costly microprocessors and memory of conventional RAID controllers—without sacrificing performance.

AHA-3940

AHA-3985

NEW!

> It's amazing how well things work.

T h e good news is that since Adaptec promoted ASPI and something called Adaptec EZ-SCSI software you can make SCSI work without a hassle...I'd advise adding an Adaptec PCI Master kit. You should be able to string 7 external SCSI-2 devices to this thing effortlessly, just as if you had a Mac."†

July 1995 PC Magazine

How to Buy:

You have a choice. So ask your dealer for a SCSI peripheral. Whether you're buying scanners, high-capacity hard drives, CD-ROM drives or tape drives. CD-recordables, magneto opticals, or removable media drives. External or internal. Make sure it's a SCSI peripheral.

To find out where to buy, for product information, or to find out more about SCSI, step into the nearest phone booth and call 1-800-804-8886 ext. 1839 now For faxed information dial 1-408-945-2570*. Or perhaps you would prefer to read about your favorite super hero while you surf the net. To visit our home page type http://www.adaptec.com

DAT   HDD   SCSI

adaptec
I/O. NOW MORE IMPORTANT THAN EVER.

This README prepared by Jan Parkhill, edited by Gene Carleton.

Disk 1032. Internet Phone (2/95) - Telephone Calls on the Internet. VocalTec, http://www.vocaltec.com/, Support@vocaltec.com

Introduction:

Up until now, you have been able to transfer text and graphics only on the Internet. You could send E-mail and even have a "chat" using text messages, but how many times did you wish you could speak to the other users?

With INTERNET PHONE, you can use the Internet to speak, in your own voice, with Internet users all over the globe. Yes, in real time real voice conversations over the Internet.

All you need is Internet Phone, an Internet connection and a compatible audio device. Plug in a microphone and speakers, run Internet Phone and, by clicking a button, get in touch with Internet users all over the globe for the price of a local phone call. Whether you want to make new friends, get personal information or conduct a direct business deal, Internet Phone is for you. A friendly graphic user interface and a smart Voice Activation feature make conversations a snap.

Internet Phone used the IRC (Internet Relay Chat) as a global phonebook, always providing you with updated topics and on-line users. By connecting to an IRC server, you can access this list and call anyone on it. When you get to know a user, you can put his/her name under a Quick Dial Button and you are only a click away from contacting that user again and again. Once you contact a person, that conversation is carried directly over the Internet and not the IRC. Other features include the ability to block unwanted calls when you are expecting an important call to connect.

System requirements:

Windows 3.1 (not NT), IBM 486SX25 or faster system, 8 MEG RAM, TCP/IP with Windsock 1.1, SLIP/PPP or direct Internet connection and audio board with speakers and microphone.

Installation:

Copy all the files into a directory(yourpath) on your hard drive.

XCOPY a: c:\yourpath

In Windows, go to FILE, RUN. Enter A:IPHONE25 on the command line. Next, at FILE, RUN, enter c:\yourpath\setup

Shareware downloaded and submitted by North Texas PC Users Group.
This README prepared by Jan Parkhill, edited by Gene Carleton

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Disk 1033.   CD QUICK v1.11 (3/95) - Quick Cache for CD CD-ROMs Author: Peter Volpa, Circuit Systems, 418 Church Road, Sicklerville, NJ 08081. Shareware fee: $29.00

CD-Quick Cache will dramatically improve the performance of your CD-ROM drive. By storing frequently read data in fast extended (XMS) memory, disc reads are almost instantaneous. CD-Quick uses an intelligent caching algorithm and dynamic read-ahead buffering to insure top performance.

CD-ROM drives are wonderful pieces of technology. By using optics instead of magnetics, vast amounts of data can be stored in a small amount of space on a plastic disc. But as with most technology, there are always design tradeoffs made. In the case of a data storage system, the tradeoff is between the amount of data that can be stored and the speed with which you can access that data. Even with quadruple speed CD-ROM drives, the average time it takes to reposition a drive's read head to a new location and start reading data is at least a couple of

HUNDRED milliseconds. Compare that with the under 15 millisecond access times of today's hard drives. Due to the nature of CD-ROM drive mechanics, this situation will not be changing any time soon. In a word, CD-ROM drives are slow.

Data caching has been used for years to speed up the performance of magnetic disk drives. Caching is a memory management technique that reads and stores frequently used data in a memory buffer for fast access. With caching, every time you request data from your drive, this data is also placed in a memory buffer. The next time the data is needed it can be found in RAM, so actual disk reads are saved. This results in a tremendous increase in performance. Until recently, effective CD-ROM caching has been unavailable.

System requirements:

Requires a 286 or higher IBM compatible, DOS 3.1 or higher, one CD-ROM and any standard memory manager like QEMM, 386MAX or DOS' HIMEM.SYS.

Installation:

Copy all the files into a directory on your hard drive.

XCOPY a: C:\yourpath

At the prompt, change to your directory and then type INSTALL and follow the instructions.

Shareware downloaded and submitted by North Texas PC Users Group.
This README prepared by Jan Parkhill, edited by Gene Carleton.

Variety Store — Ctd...

... Vendor Marketplace (downstairs at the Infomart) are loaded with vendors selling motherboards with Cyrix 5x86 CPUs running at 100 MHz and 120 MHz. See lots and lots of these.

Are they *Pentiums*? No. Are they as fast as *Pentiums*? Yes, even faster in some applications (16-bit) and *Windows 95*. Biggest difference between the Cyrix 5x86 CPU chips and the 'real' Intel *Pentiums* is 32-bit (Cyrix 5x86) vs. 64-bit (*Pentium*) operation on the PC bus.

You may even see some "older" Cyrix 5x86 CPUs marked "M1sc" which is part of the general confusion created by Cyrix over these chips. The 5x86 CPUs work on a number of motherboards, but these must be equipped with a BIOS that can recognize the Cyrix CPU. According to a number of vendors, the BIOS dates should be after 7/95 (July, 1995) and best test would be to see actual operation with one of the Cyrix chips.

Cyrix has a list of motherboards that work well with their CPUs on their Web Page, www.cyrix.com, along with performance specs for both the 5x86 and 6x86 CPU chips.

Small warning — lots of vendors claim the "early" 100 MHz CPUs (the ones with the green heatsinks attached) run "just fine" at 120 MHz. They may, for awhile, but heating may get the better of them, even with a heatsink. I'd just stay within the CPU's rated speed to be on the safe side.

Reagan Andrews

The Corel Corner

Corel has introduced a new plug-in for Netscape 2.0 which will allow you to display Draw's CMX files directly. You can download this plug-in at www.corel.com or at www.corel-net.com.

Corel has announced the release of Build 169 for *CorelDRAW 6*. Customers who registered up to November 30 (as well as those who contacted Customer Service) will automatically receive the update. If you haven't registered, contact Corel for your update. You can download a

Dallas Corel Is A SIG Of North Texas PC Users Group

load of the fixes from CompuServe or from their Web Site. One exciting new feature added is that you will be able to open CMX files directly into CorelDRAW 6, rather than having to import them. Also, the release should fix the guidelines problem and the problems related to saving a 6.0 file in 5.0 format.

Also now available is the latest update for version 5.0, labeled G1. This revision will enable

you to run DRAW 5 more smoothly in Windows 95.

You can now download a new CorelDRAW 6.0 script each month from the *Corel Magazine* Web Site at www.corelmag.com. This site also features a monthly challenge for Corel users which is worth checking into. Some of you might be interested in entering. This Web Site is also featuring a gallery of *Corel Magazine* users. Check it out and submit some of your art for display.

Did You Know?

In the CorelDRAW 6 package, CorelCHART is officially a part of CorelPRESENTS. However, it is also an independent OLE2 program. This means that you can insert an object and choose CorelCHART 6 in other programs that support OLE2, such as *MS Word!*

POWER GRAPHICS PUBLISHING 1995/96 SEMINAR TOUR

For the third consecutive year, Randy Tobin is embarking on a seminar tour for the purpose of bringing leading-edge training and techniques to users of Windows graphics software. This tour runs December through June and features four separate half-day seminar modules, each focusing on a different aspect of electronic

design and publishing. Modules include: DRAW, SCAN/EDIT, MULTIMEDIA, and WEB DESIGN. Registration: Tuition for each seminar module is only $99 with discounts available for multiple modules. Sit-down lunch is included when morning and afternoon sessions for the same day are purchased together. ACAD members receive a $10 discount on each module.

San Antonio, TX 3/4-5/96

Dallas, TX 3/7-8/96

Reservations should be made early as seating is limited!

  Randy Tobin:
  e-mail: theta_data@earthlink.netTheta Data
  web site: www.earthlink.net/~theta_data/Power Graphics
  phone: (818) 955-5830
  fax:(818) 955-5867

JoAnn Elliott
Susan Biggs

INSIDE THE NORTH TEXAS PC USERS GROUP COMMUNITY
VOLUNTEERS IN ACTION   by Claude McClure

New View for the New Year

This year we will look at accomplishments over the last year, but with the view that changes need to be made to our activity. We have had a lot of good things happen. This year we plan to do more to help fellow Club members learn more about their computers. We want to see more sound boards, CD-ROM drives, and modems installed. We want to coach more members through upgrading to *Windows 95*. We want to lead more members to the Internet.

Volunteers helped hundreds of local computer owners learn more about their machines and how to operate them. Volunteers aided more than two thousand Club members join or renew their membership in one of the largest and

most active computer clubs in the country. Severl thousand shareware disks were made, catalogued, and distributed by the DOM volunteers last year.

Volunteer SIG leaders gave a much-needed service to all of us, for which we thank them. Hopefully they often learned new skills and gained valuable knowledge themselves. Thanks to the officers of our Club who led us so well. They gave so much time and talent to Club projects.

Thanks to all of the many members who work behind the scenes to put it all together on our monthly meeting date. Thanks to the many volunteers who are named on this page.

Infomart Liaison
Stuart Yarus
Alex Lilley
Robert Hilliard

Vendor Setup/
Breakdown
Anchors:
David Slavik
Kenneth Berg
Ross Jones
Crew:
Dick Abbot
Larry Johnson
Neal Van Pelt
David Temple
Wayne Washburn
Larry Matzek

Auditorium
Presentations
Timothy Carmichael
Chris Jung
Chris Carmichael

Information/
Registration Booth
Statistician:
Connie Andrews
Ralph Beaver (Assistant)
Scheduler:
Bob Wuller
Anchors:
James Boyce
Albert Champon
Steven Cucci
Eteta E. Eta
Allan Harbaugh

Hank Holt
John Ivers
Ned Keig
Cinda Lovil
David Martin
Bob McNeil (Double)
Foy J. Mills
Anthony Nagy
Carl Oehmann
Paul Williams
Booth Crew:
Dianne Arnold
John Arnold
Ralph Beaver
Pat Cote
James Gorak
Jackie May
Claude McClure
Raymond Reyes
Ray Szczniak
Walkabout:
Linda Moore
Perry Slack

Disk of the Month
(DOM)
DOM Shift Supervisors:
Joe Allen
Roy Bales
Don Chick
James Donlon
M. Pat Henley
Arnold Krusemark

DOM Desk Crew:
Michael Ashley
Douglas Athas
Bernie Baars

Richard Blair
Jim Boyce
Philip Bridge
Gene Carleton
Mark Christopher
Norm Dang
William Farris
Charles Fernandez
Martin Gluck
Judy Griffiths
Tom Jackson
Mac McKeethen
Nancy Ogden
Bob Post
George Read
Jim Russell-Redman

With Special Thanks to:
Set Up Crew:
Mark Gruner
Kent Haven
M. Pat Henley
David Huckabee
Jan Parkhill
Jerry Stone
Inventory and Take-
down Crew:
Richard Blair
Mark Christopher
Martin R. Gluck
Arnold Krusemark
DOM Desk Scheduler:
Philip Bridge
Disk Production:
Gene Carleton

VOLUNTEER INFORMATION

1. Via BBS: (214)387-2751, (214)387-2752 or (214)263-9036 (metro). Sign up on the Volunteer Conference - make the subject matter your area of interest.

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

3. By phone:

Auditorium Presentations
Timothy Carmichael . . . . (214) 681-4626 (w)

DOM Booth Scheduler
Phil Bridge . . . . (214) 422-5400

DOM Software Review
Jan Parkhill . . . . (214) 828-2216 (h)(w)

Information Booth and General Information
Claude McClure. . . . . (214) 867-0978 (h)

Selected SIG Reports . . .

News and meeting notes of Special Interest Groups

(Material for this column should be sent to NTPCUG BBS SIG Upload Area before the 10th day of each month)

Access SIG

Noel Fouts, of Amresco, Inc., will speak at our February meeting. Noel will explain how he connected Access databases to the HTML content of an Internet World Wide Web page, using the DBWeb product. This should be a "humdinger" of a presentation and we are looking forward to it. We'll also have a Questions, Answers, Tips, & Hints segment with participation by all attendees, and a drawing for (more or less) valuable prizes.

Because of the modifications to the demo system, **Larry Linson** had the opportunity to demonstrate in January, just how easy it is to re-install Access 2.0. Since this is being written before that meeting, he is at least hoping that reinstalling Access 2.0 on a dual-boot Windows 95 system will be as easy as installing under Windows 3.1.

January has brought even more calls seeking Access developers, especially for contract assignments, mostly located in the DFW area, but some for other locations, too. (All, unfortunately, in colder locations than this! It would surely be nice to get some offers from warmer climes in the wintertime.) If you want your name and number given out to such callers,

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FROM THE SIG COORDINATOR

The following are changes/additions/needs that the NTPCUG has made to the SIG's.

New SIGs:

— **Emerging Computer Technologies** – Dick Vedder @ (817) 481-6457 M

— **Internet - WEB Developers** – Mark Camp @ (214) 583-9012

New SIG Leaders:

— **Desktop Publishing** – Mark Stuertz @ (214) 528-5311 h

— *Visual Basic* – Ed Diehl @ (214) 687-9043 w

— *StarText* – Chuck Menke @ (817) 496-6579

Groups Looking for Help in Leading their SIGs:

— **Middle C** [Contact Tom Cook @ (214) 871-8177 w]

— **Networking** [Contact Bernie Van Roekel @ (817) 451-4540 h; (817) 461-4120 w]

— **Visual Basic** [Contact Jim Carter @ (214) 235-5968 h]

The requirements for forming a SIG are:

Leadership — at least one individual willing to lead the SIG, and an assistant.

Membership — at least eight individuals willing to attend the SIG fairly consistently.

If you have a group that meets these qualifications or would like help in finding others who might share your interests, please contact me at (214) 517-7430 (H) or (214) 527-0922 (W).

SIG

you must sign the list at the meeting giving your permission. If you are already on the list, your phone should have been ringing with regularity during the month.

Our goal is to cover subjects of interest to every level of Access user, from the person still deciding on a database to the experienced developer. We need speakers for future meetings on Access-related subjects, for any of these user populations. If you have good information, but could use some help in preparing your presentation, see any of the SIG leaders (**Larry, Jack Atkinson, Dianna DeCicco, or Frank McCoy**) and we'll try to help.

We'd especially be interested in observations on Access for Windows 95, version 7.0, but many of us will continue to be using Access 2.0 for some time to come!

We're hoping, Real Soon Now, to have a copy of Access for Windows 95, version 7.0 to install on the demonstration machine, now upgraded with dual-boot capability, for both Windows 95 and Windows 3.1. Thanks to the Board of Directors for approving the upgrade, and especially to **Fred Williams** for installing the new hardware and software (like all the other Board members, officers, and workers in the NTPCUG, Fred's efforts are a "labor of love", all volunteer).

Between meetings, keep up with the group, and Access, on the NTPCUG electronic bulletin board system. The Internet "comp.databases.ms-access" newsgroup is back in operation and chock-full of good questions and answers. You can't read it on-line, but it is available for down-loading to read with your off-line

reader software – see the DOM folks for a copy of Silly Little Mail Reader (SLMR), good, solid, and, best of all, *freeware*. We also have our own local MS ACCESS message conference for questions, answers, announcements, and just keeping in touch. Check inside the back cover of this issue for the BBS telephone numbers.

We look forward to seeing you at the February meeting. Come join us!

Larry Linson

Application Developers (OLE and ODBC) SIG

Arrangements for the February meeting were not completed by our article deadline, but you can rest assured that we will have a meeting. There's even a good possibility that we won't just end up "talking among ourselves" again.

We're looking for more presenters on the subject of early experience with Windows 95 and the "new generation" of applications, with emphasis on our chosen topics, OLE and ODBC (both improved in the new environment). If you've begun to work in these areas, won't you share your insights with us?

Come join us for the February meeting!

Larry Linson

Beginners BASIC SIG

The Beginners BASIC SIG will end its activities at the conclusion of the February 1996 meeting.

The Beginners BASIC SIG has featured GW-Basic & QBasic step-by-

SIG LEADER LISTING

Legend: h = Home #, w = Work #
M = Metro #

Health Care Computing/Informatics
Zeke Rabkin .... (214) 321-9462 w

Internet–Beginner
Tom O'Keefe ...... (214) 247-8812 h
Doug Gorrie .... (214) 618-8002 h
.... (214) 464-7942 w
Erik Leaseburg ... (817) 265-7550 hM

Internet–Advanced
Tom O'Keefe ...... (214) 247-8812 h
Doug Gorrie .... (214) 618-8002 h
.... (214) 464-7942 w
Erik Leaseburg ... (817) 265-7550 hM

Internet–WEB Developers
Mark Camp .... (214) 583-9012
David Maxwell .... (214) 977-7584 w
.... (214) 299-6295 h

Introduction to the PC
Alex Lilley .... (214) 517-7430 h
.... (214) 527-0922 w
Bob Russell .... (214) 422-4269 h

Investors
Dick Richtman .... (214) 437-0322 h

MS *Word for Windows*
Beverly Kurtin ..... (817) 355-9594 hM
Jan Patton .... (903) 886-6249 h
.... (903) 886-6466 w
Bob Rice .... (214) 885-0202 w

MS *Works*
Ralph Logan .... (817) 498-9746 hM

Microsoft Networking
Debbie Lenhart ... (214) 625-9680 h
.... (214) 716-2704 w
Bruce Wynn .... (214) 335-2507 h
.... (214) 756-7832 w
John McCrae ......

MultiMedia
Dennis Rice .... (214) 680-8299 h

Networking
Leroy Tennison
Francis Bright

OS/2 Developer
James Dunn .... (214) 279-5712 h
.... (214) 497-8978 w

OS/2 for End Users
Bob Fermier........ (817) 481-6625 h
.... (214) 444-2195 w

OS/2 Q&A
Larry Truesdale

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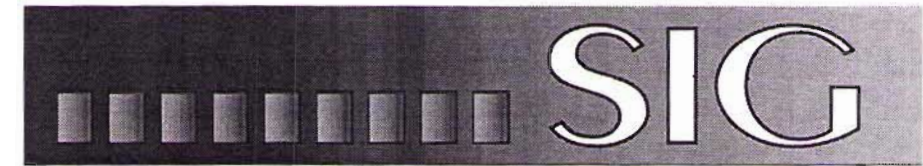
step program writing with small sample programs. The SIG instruction material has been reduced to DOM disks, which are for sale in the basement.

DOM disk #846 was released in August '93 with all the SIG material covered to then. Subjects covered in Chapter format: Writing a program, the Report program & String Variables, Sequential files, Random files, Math & Number Variables, Arrays explained, Sort & merge theory, Program editing, Debug & Testing, Error messages & Error Traps, CRT & printer code, shareware utility gems.

DOM disk #925 was released in December '94 with the following class material on it: Screen design & data input code; Compiling Basic language programs; Keyboard ASCII & Scan Codes; XREF program in Basic for NOWBasic (VC.ZIP); Alumni List Program set: Data input, sort, report, labels; screens using Ansipaint; Exploring RAM memory; Exploring the disk layout; A program named INTEREST, which Calculates interest problems of the six different types; program GW2QB.EXE, which converts a GWBasic program to QBasic; program called JAPCANQB.BAS, a Japanese candlestick graph maker using a sample stock market data file; an arithmetic drill program for young students called FLASH-CARD; the use of Vernon Buerg's SORTF program; time clock program featured the use of INKEY$; the payroll analysis programs using Julian dates subtraction; Sept. sorting a very big list file; more Julian date & day programming and the use of the FM (file modify) program.

These two DOM disks are available before or after each SIG meeting for $3 in the basement flea-market. The 1995 disk, explained below, will be released by the DOM in the near future.

Covered in 1995: payroll programs, and general ledger programs. Regular SIG members have brought a 3-1/2" disk each month to exchange for an updated disk which includes the current month's material. The final disks will be returned to each regular SIG member at the January and February SIG meetings. If anyone misses both of those meetings, call me at 817-379-5287, give me your name and address, and I'll mail the final disk to you.

Charles Jacobus

Dallas Corel SIG

February 10 Meeting

Our February program will be tips and tricks and questions and answers. Hopefully Win 95 and DRAW 6 will be loaded and ready to demo.

Also, is there anything special you have found that you can do with the Draw suite that Corel didn't tell you about? Any special little programs or extras you found? We'll share what we have found, bring yours to our attention!

Upcoming meetings:

Begin to collect your materials to share at our annual **Members Showcase!** This program of showing off what you do with

SIG ▯▯▯▯▯▯▯▯▯▯

CorelDRAW is normally held in the Spring. More to follow.

Our monthly planning meeting is held at the Luby's Cafeteria just north of LBJ on Midway Road, from 11:30 to whenever. Open to all!

JoAnn Elliott

December Meeting in Review

During the December meeting **JoAnn Elliott** delighted us with her tubular renditions, used to "grow" antlers on a very merry reindeer. Two ellipses, representing the base and tip of an antler section, were resized, fountain-filled and given a Blend to Path. Branches in the antlers were created by duplicating a control ellipse and repeating the process. JoAnn's clever use of layers, color, and node editing created entertaining "animation" as we watched the antler blends rendered on-screen to complete the handsome reindeer.

JoAnn is an extremely accomplished DRAW user and we use our time wisely by asking a lot of questions whenever we get the chance. Many thanks to her for the great demo and for continuing her leadership role in our group. JoAnn contributes many volunteer hours to the Dallas Corel SIG each month and we sincerely appreciate her generosity.

Rocky Stonewall

Tips and Tricks

Draw has trouble printing tiled, multiple-page documents. When this happens, tiling will only work on the first page. **Corel** has suggested the following workaround: Print the first page tiled; switch to the second page, do a Select All, and print tiled the "Selected Only" option. Use the same approach for scaling.

When you have trouble printing large files, double click on the CORELPRN.INI file in Corel\Config Directory and change the DumpEntireBitmap=1 value to =0.

A number of users have reported that their bitmaps are printing as solid black squares. HP users can look for a file in the Windows directory called DESKJETC.INI. Open this file in notepad and change the value in the line 0jumbotechnology=0100 to =0000.

Also, some of the newer HP drivers use some technology from the Windows Printing System that Draw and **PhotoPaint** prior to revision 5F were not compatible with, so it is advisable to be sure

you have the most current version of Draw.

These tips come from Chris Dickman's *CorelDRAW Journal*, February, 1996.
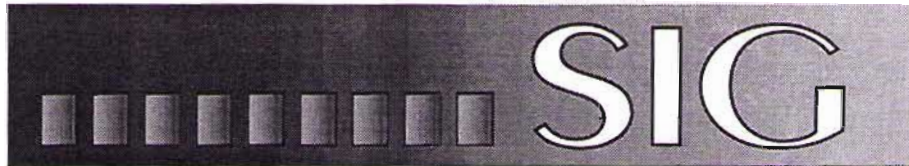
Susan Biggs

Delphi SIG

If things went as planned for the January meeting, Terry Brantley, will have given us an in-depth look at how to use Crystal Reports as a replacement for Delphi's ReportSmith. I would like to thank Terry for taking the time and effort required to share his knowledge and experience with others.

This month's meeting will be the second hour of my "Introduction to Relational Database Design" presentation that I randomly, periodically do. The first half of the presentation will be done in this month's Paradox SIG. **Tom Browning, Frank Cavillito,** and I thought that we would try this approach to the presentation, this way we will only impact a single SIG meeting for each of two groups, and the attendees will not have to wait a month between presentation segments.

The presentation is designed to be database engine neutral, so the target database is not a critical consideration for attending the presentation. The design principals presented apply to any relational database engine.

On another related topic, I've been scrounging around the office trying to clean it up. I found an unregistered "review" copy of Paradox 5.0. I decided that the best way to pass this copy along would be to give it to some NTPCUG member interested in relational database design.

Paradox 5.0 is no longer the current release, but it can be registered and upgraded to 7.0, and re-

member, some think there is a lot of mileage left in the 16-bit world. And, yes, Paradox can be a very helpful tool for a Delphi weenie when working with either Paradox or dBASE database tables.

The way we will do the drawing is, we will pass out tickets to NTPCUG members at the end of the Paradox SIG, and we will hold the drawing at the end of the Delphi SIG. This is a sly way to attempt to insure that the presentation attendees will be more than just Tom, Frank, and I!

Fred Williams

Desktop Publishing SIG

As the new leader of the DTP SIG- -which has been leaderless for the past few months—I'm looking forward to breathing some new life into this User Group. Actually, as a new member of NTPCUG and a new resident of Dallas (having relocated from the San Francisco Bay Area, where I directed printed materials production for a California wine industry association) I'm really looking forward to meeting lots of fellow DFW-Area desktop publishers.

Plans for the February meeting aren't firm yet. But the goal is to cover areas of interest to any desktop publisher, and your input would be greatly appreciated.

Some subjects that I plan to explore in the future include color, typography, tips on layout, working with printers, Mac obsessions, imagesetters, various forms of printed output, photo editing and illustration, graphically displaying information, and if paper becomes obsolete before the end of

the year, some discussion on electronic publishing.

There is a vast array of DTP dodads out there and lots of ware vendors, both hard and soft, that are dying to get them into your hands. So please stop by with your ideas, preferences and product curiosities and I will do my best to have them addressed. A special thanks goes out to Deborah Bean for her support and assistance, and if anyone is interested in assisting with this SIG, please give me a call.

Mark Stuertz

DOS SIG

The February DOS SIG is going to be a killer! Better call ahead for reservations if you want a seat for this *rare* event — DOS will be the focus.

Seriously, **Jim Hoisington,** new NTPCUG President-Elect and six-time past-president, and I plan to spend the session looking at Windows' DOS "boxes" and how to make them operate appropriately, i.e., "well." We've had several questions about "legacy" DOS applications members were having trouble running out of *Windows 95* and *Windows 3.x* and felt this would be a "killer" topic for exploration at the SIG meeting.

It's clear, and in spite of Microsoft's best efforts to convince users to switch to newer applications designed for Windows, there's still a lot of the "legacy" software in daily operation by NTPCUG members. Members who either don't want to "switch," or, who can't upgrade

SIG

as a result of vital data that won't convert easily, if at all, to a newer platform. We may have some solutions at the February SIG meeting. We may even have some overheads to illustrate the discussion.

Reagan Andrews

Emerging Technologies SIG

The February meeting of the Emerging Technologies SIG will feature a talk by Charles Lindahl of The University of Texas at Arlington on VRML (Virtual Reality Modeling Language) followed by a brief organizational session. This will be the first meeting of this SIG, and member input is encouraged.

Walter Johnston

Internet SIG - Advanced

For the meeting in February, fellow NTPCUG member, **David Martin**, will discuss the software on the market for holding real-time voice conversations over the Internet. With the advances in digital compression technology most any home computer user with a sound card, 14.4k modem or greater, and SLIP/PPP Internet connection can talk live with anyone in the world, and long distance charges don't apply! David will talk about the features and limitations of several real-time audio software packages: *Real Audio*, *IWAV* by VocalTech, *Internet Phone*, and *DigiPhone*. This technology is sure to change the way we communicate in the not-so-distant future.

The Advanced Internet SIG is always in search of interesting speakers and discussion topics

for its Internet-savvy audience. If you have an idea or know someone who wants to present on an Internet topic, please feel free to contact us.

See you February 10th!

Doug Gorrie, Tom O'Keefe, &
Erik Leaseburg

Internet SIG - Beginning

For the meeting in February **Ken Loafman** will talk about *Telnet*, a valuable piece of software every new Internet user should become familiar with. Telnet lets a person connect to remote machines on the Internet, just like terminal programs such as Procomm, Telix, Window's Terminal, and COMit let you connect to BBS's over a phone line. Once connected via Tenet to these other computers on the Internet, you can interact with anyone else also connected to that same computer. You can socialize with other Internet travelers by chatting real-time using your keyboard, fight dragons and others in virtual quests, find out the weather anywhere in the world, setup a homepage on the World Wide Web, and much, much more. If you are new to the Internet this is one topic you don't want to miss.

The Beginner's Internet SIG is constantly searching for interesting topics and ideas that help new Internet users learn how to use the vast resources available on-line. We would like to hear from you, if you have an idea, suggestion, or presenter in mind.

See you February 10th!

Doug Gorrie, Tom O'Keefe, &
Erik Leaseburg

Internet - Web Developer's SIG

I know that the 8:00 am call is early but come on out to meet with us anyway.

The February meeting has not been finalized yet. All I can tell you is that if they (Macromedia) show, it is going to be a great topic.

Shockwave has really added a new twist to the Web. If they don't make it to the meeting we will talk about it anyway.

As always we will try to keep a QA session so if you're having trouble with your Web server, want to get an answer about Shockwave , perl or any other Web topic.

Come by.

Mark Camp & Dave Maxwell

Introduction to the PC SIG

The following is the tentative schedule for SIG classes that will be offered as an Introduction to the PC during the next four months. Classes can be taken in any order suitable to the individual student's schedule. Printed notes are provided during classes.

February 10, 1996

- ❖ 9:00   Class 9
  Hardware for the PC
- ❖ 10:00   Class 10
  Printers for the PC
- ❖ Noon   Class 11
  Overview of Quicken Accounting Software
- ❖ 1:00   Class 12
  Modems & Telecommunications
- ❖ 2:00   Class 12a
  NTPCUG Bulletin Board System (BBS)

March 9, 1996

- ❖ 9:00   Class 13
  Overview of Microsoft Windows

- ❖ 10:00   Class 14
  Overview of MultiMedia Software & Hardware

- ❖ Noon   Class 15
  Disk of the Month (DOM)

- ❖ 1:00   Class 16
  PC's Into the 21st Century

April 20, 1995

- ❖ 9:00   Class 1
  Introduction to the SIG and the Personal Computer

- ❖ 10:00   Class 2
  Working with Files & Directory Structures

- ❖ Noon   Class 3
  Disk Operating System (DOS) - Part I

- ❖ 1:00   Class 4
  DOS - Part II

May 18, 1996*

- ❖ 9:00   Class 5
  Graphics for the PC

- ❖ 10:00   Class 6
  Word Processors

- ❖ Noon   Class 7
  Spreadsheet Programs

- ❖ 1:00   Class 8
  Other Software for the PC

* This date is subject to change. Check your *PC NEWS* and/or the NTPCUG BBS for corrected date before the meeting.

Alex Lilley

MS Word for Windows SIG

If you want to do it with style, you should have been at January's meeting. Styles and the Style Gallery were explained and demonstrated. You say you missed it? No problem, we'll go a bit farther with them and document templates next month. 'Nuff said about February's meeting.
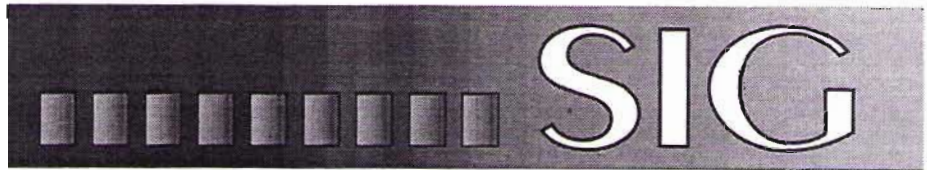
I've purchased a Pentium/75 with 16 meg of RAM and a very fast local bus video and will be using that for all demonstrations. The days of slowly cranking machines is OVER!

Tip of the Month:

Sometimes ya just gotta get back to basics. Believe it or not (and why shouldn't you believe it?) batch files still have a place in my heart. Even though Windows 95 officially does not HAVE DOS, it does have virtual DOS and every once in awhile, well, as I said above, ya just gotta get back to basics.

What brought me to this conclusion was my need to back up two files on a regular basis: my Schedule+ SCD file and my NORMAL.DOT.

I have a solid conviction that as long as I keep both of those backed up and up-to-date, I will never need to have a back-up. The instant that I fail to back these two files, my entire hard drive (all 1.25 gig) will go up in smoke.

Well, I exaggerate, but only slightly.

The following will work with either Windows 3.x or 95:

From the Program Manager in Windows 3.x, choose Run from the File menu and type COMMAND. Press ENTER.

In Windows 95 click on the Start button, select the Run command (or press Ctrl+Esc, R) and type COMMAND.

I prefer to keep my batch files in C:\ (pronounced C Root). So type CD\ and press ENTER. You should see the C:\ prompt.

Now for you old timers, get ready to hoot with delight or derision. The fastest, easiest, and most direct way to start a batch file is to type:

COPY CON FILENAME.BAT where FILENAME is the name of the batch file. When you are finished with the batch file, simply press ENTER, then F6, then ENTER again. For better or for worse, the job's done.

For those who are a bit squeamish about doing something so DOSish, you can type at the C:\ prompt, EDIT FILENAME.BAT and proceed to enter what you need to get the job done.

I've got two batch files. One is BEVOUT.BAT the other is BEVIN.BAT. BEVOUT copies the files from my hard drive to a (yeah, I know, I know) a floppy in my A: drive. BEVIN copies from the A: drive to my hard drive.

ANYTIME I make changes to either file I run the appropriate batch file. That's because both are very valuable to me.

BEVOUT.BAT looks like this:

```
COPY C:\MSOFFICE\SCHED-
ULE\BEVERLY.SCD A:\ COPY
  C:\MSOFFICE\TEM-
PLATES\NORMAL.DOT A:\ ^Z
```

That's the location of the NORMAL.DOT in Windows 95. If I needed to backup a NORMAL.DOT file in Windows 3.x the line would read:

```
COPY C:\MSOFFICE\WIN-
WORD\TEMPLATES\NOR-
MAL.DOT
```

BEVIN.BAT just reverses the procedure:

SIG

```
    COPY A:\BEVERLY.SCD
C:\MSOFFICE\SCHEDULE
COPY A:\NORMAL.DOT
    C:\MSOFFICE\TEMPLATES ^Z
```
For those of you who don't know what the ^Z is all about, it's the EOF (end of file) marker.

Again, for those of you who can't or won't admit that MS-DOS does NOT exist in Windows 95, keep in mind that it is a virtual DOS only.

From Windows 3.x I'd just run them from File, Run. In Windows 95 I press the Windows key on my keyboard, type R and type C:\BEVIN or C:\BEVOUT. Works like a charm!
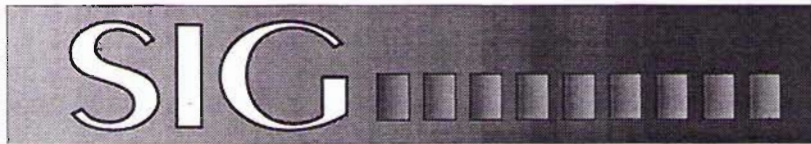
If you'd like to see this in action be sure to stop in at the next meeting on February 10th.

Beverly Kurtin & Janet Patton

Paradox SIG

Paradox 7.0 is shipping. I'm seeing references to 7.0 on the Internet, so some have received copies. Rumor has it that there will be a "maintenance" release of 16-bit Paradox (5.0). That is to be the final release of 16-bit Paradox, so the story goes. I am certain what will be the determining factor in the actual release decision will be the market acceptance of Win 95. Many feel that there will be a long term residual 16-bit market. But, that is what the "DOS forever" crowd thought about the DOS market a couple of years ago.

I'll see about getting Borland's Jeff Hopper to drop by and give us a demo of Paradox 7.0, and possibly some insight into Borland's future plans for Paradox. With the apparent roaring success of Delphi, Borland can at least think about the future once again!

Meanwhile, this month's meeting will be the first hour of my "Introduction to Relational Database Design" presentation that I randomly, periodically do. The second half of the presentation will be done in this month's Delphi SIG. **Tom Browning** and I thought that we would try this approach to the presentation, this way we will only impact a single SIG meeting for each of two groups, and the attendees will not have to wait a month between presentation segments.

The presentation is designed to be database engine neutral, so the target database is not a critical consideration for attending the presentation. The design principals presented apply to any relational database engine.

On another related topic, I've been scrounging around the office trying to clean it up. I found an unregistered "review" copy of Paradox 5.0. I decided that the best way to pass this copy along would be to give it to some NTPCUG member interested in relational database design.

Paradox 5.0 is no longer the current release, but it can be registered and upgraded to 7.0, and re-

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MISSING SIG'S?

If you don't see your favorite Special Interest Group's SIG Notes here, take a few minutes to remind your SIG Leader that *The PC News* will be glad to report what your SIG is doing — if the SIG Leader will send us your SIG news.

Deadline for SIG news is usually the 10th of the month preceding publication. We are anxious to report what your SIG is doing.

Reagan Andrews

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member, some think there is a lot of mileage left in the 16-bit world.

The way we will do the drawing is, we will pass out tickets to NTPCUG members at the end of the Paradox SIG, and we will hold the drawing at the end of the Delphi SIG. This is a sly way to attempt to insure that the presentation attendees will be more than just Tom and I!

Fred Williams

Pro SIG

The recent acquisition of Microsoft by Disney dominated the meeting. A lot of the discussion was devoted to the synergy between a company devoted to fantasy and a company devoted to software. The day ended with general agreement that both companies were devoted to fantasy.

Join us in February when we play old Mickey Mouse movies backward and hear a hidden message from Bill Gates.

Jim Hoisington

Visual Basic SIG - Beginning

The February 10th meeting of the Beginning Visual Basic SIG will feature a presentation entitled "For Beginner's Only" that will cover topics of interest to those just getting started in Visual Basic. This presentation is repeated each February and August to assist newcomers to Visual Basic in getting started. The major topics will include a brief history of Visual Basic, descriptions of resources available for beginners in Visual Basic, an introduction to the Windows environment, discussion of the features of Visual Basic 3.0 and 4.0, and demonstration of the Visual Basic integrated development environment (IDE). Sample programs will be run on the NTPCUG computer projec-

tion system. Everyone is welcome to attend, of course. If you have a friend, relative, neighbor etc. that would like to see what Visual Basic is about, bring them to this meeting.

Last month, we concluded the discussion of reusable code started in the December meeting. We also, if everything went well, introduced the upgraded "teaching computer" to include Windows 95 and Visual Basic 4.0, Professional Edition. Windows 95 has been installed in the dual-boot mode in order that we may run Visual Basic 3.0 in the Windows 3.1 mode and Visual Basic 4.0 in the Windows 95 mode.

Bring your questions on Beginning Visual Basic to our meeting beginning at 8:00 AM on Saturday, February 10, 1996. Check the Infomart lobby screens for the correct room assignment.

Jim Carter

Visual Basic SIG

The February 10th meeting of the Visual Basic SIG will feature a discussion of the new controls in Visual Basic 4.0. Our new SIG Leader, **Ed Diehl**, will also entertain questions from attendees.

Last month, **Ed Diehl** led us through a discussion of the new features in Visual Basic 4.0 but could not deliver his planned presentation because the computer did not have Visual Basic 4.0 installed. It was an excellent first session for our new leader.

The Visual Basic SIG will meet at 9:00 AM on Saturday, February 10, 1996. Members with any sort of questions about Visual Basic are invited to bring the questions to the meeting for discussion. Check the screens in the Infomart lobby for room assignment.

Jim Carter for Ed Diehl
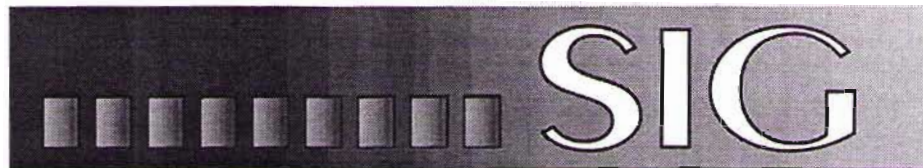
Windows Developers SIG

At the January meeting, we focused on the ABC's of objects. Using the materials I created for my presentation on Object Basics at Fall COMDEX in Las Vegas, NV we overviewed what objects are and why they are important to Windows developers. This discussion covered the basics of the Booch method of object-oriented design as well as a brief discussion of OLE fundamentals.

At the February meeting, we are going to look at what are the information resources available on Microsoft Windows C++ development. The main topic of this meeting is information. Where to find the most valuable information on Windows software development such as books, CDROMS, magazines, CompuServe, the Internet, computer conferences, etc.

Tentatively, the following topics are scheduled for the Windows Developers SIG through April: March - Windows Developer Certification. Is it worth it? How do you do it. Tips and Tricks to getting certified. April - Internet programming. Is JAVA just another name for coffee? Is HOT JAVA just another name for JAVA? What about HTML and VRML? Are they tools for writers or programmers?

If you are participating in or interested in Microsoft Visual C++ Windows software development, you should make sure to put our SIG meetings on your calendar. It's a great way to network with peer developers and get the latest scoop about what's happening in Windows software development.

Arthur English

WordPerfect for Windows

This month we will be learning about *Merge*. Merge is used to mass-produce letters, envelopes, mailing labels, contracts, return address labels, memos or other documents. To create a merge, you will create two kinds of files - a *data* file (which can be in a text format or a table format) and a *form* file, and then you merge them together. The merge copies the form file with each copy containing specific information from each record in the data file. It's easy!

If you are currently using WordPerfect 5.1-DOS, I encourage you to join us at this meeting. You will be amazed at the differences between the two versions and will probably look at merging in a whole new light! I look forward to seeing you all there!

Quick Tip of the Month

Did you know that you can change the setting for the default directory to NOT change each time you display a different directory? (If you look at files on the A:, then take out the diskette, normally it attempts to read from the A: again.) It takes only a few steps. Go to the Open File Dialog Box and choose Setup → select Change Default Directory → have the Change Default Directory check box **NOT** to be marked!

Cindy Adams

## A Wonderful Month! No UUCP Problems — Copyright Revisited

Ah! A whole month without a serious UUCP Feed "event"! Thanks again **Doug Gorrie**.

Seems I was a wee bit premature in announcing the new BBS diskette. If you checked last month, you found out that the DOM crew does not have the BBS diskette for distribution. This gives rise to a good news/bad news situation. The good news is, though delayed, the actual introduction and distribution arrangement will prove to be even a better deal! The bad news is, I have decided to code name the project "BBS Disk '96".

The BOD gave approval for even more than proposed, and inadvertently has caused a delay of longer than anticipated. The delay is required in order to take full advantage of the additional latitude granted in design and deployment of the soon-to-be-released BBS Disk '96. Fear not, I think you will feel it well worth the wait.

Luckily, for me, not so for the BBS, I stayed uncommonly billable busy last year and glory be, it appears to be carrying into the new year! I am still hopeful that we will be implementing a replacement for TBBS some time this year, but maybe later than sooner. I do not hold any hope for eSoft to change their current Internet-oriented product development and support at the expense of TBBS, so the migration to a "new BBS" software platform is inevitable.

On a whole 'nother note. Some discussion "broke out" on the BBS last month, related to a requested transfer of a copyrighted software product. I apparently clumsily attempted to insure the discussion would produce a legal transfer of said software, should an arrangement come to pass. A now former

NTPCUG ON-LINE
by Fred Williams
SYSOP, NTPCUG BBS
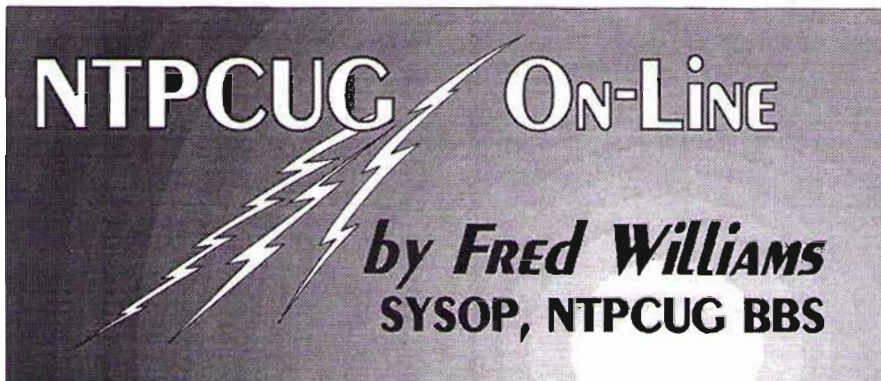
NTPCUG member took great offense to this suggestion, obviously. Anyhow the whole fiasco brought to light the fact that possibly many within the NTPCUG membership may not understand that the NTPCUG BBS does not function in the same manner as do most all other "private" BBS's around the world.

The NTPCUG BBS is a legal extension of the North Texas PC Users Group and therefore the NTPCUG is responsible for the behavior of and transactions executed in the "public" NTPCUG BBS-sponsored areas on the BBS. In all other respects the NTPCUG can and continues to treat all other areas of the BBS (i.e., Internet services and both local and Internet private e-mail) as a "common carrier" service, as in the context of the phone companies in relation to their phone system networks.

The critical thing to keep uppermost in the NTPCUG BBS user's mind, is that things posted in the public NTPCUG SIG conferences areas and file areas are subject to guidelines as outlined by the NTPCUG BOD. As Sysops it is both my and the Sysop staff's responsibility to insure that all communications conducted in the NTPCUG public areas reflect both a positive and legal image for the NTPCUG as an organization.

I am happy to say that, given this responsibility, I have had to impose some level of intervention only on a number of occasions that can be counted on less than one hand during my three-plus year tenure as NTPCUG BBS Sysop. I think, this speaks well of our BBS users' overall good manners and understanding of what is in good taste and what is not.

It is unfortunate that on those rare events where an attempt to lead, on a couple of occasions, was interpreted as a jack-booted, full-frontal attack. Doug has alluded to the fact that I seem to have the tact of a full-throttle 18-wheeler on I-35. Funny, I get the feeling my wife would occasionally agree with Doug?

Anyhow, I continue to endeavor to interfere in, with as light a hand as is practical, on as few occasions as is prudently possible. Please be aware that I am only doing the BBS Sysop's job as best as I know how.

Fred Williams

NTPCUG USER – TO – USER PROGRAM

Introducing the NTPCUG User-To-User program, composed of members who are willing to donate their time to help others with software and hardware questions. Some of our helpers are professional consultants. All have joined the User-to-User Program because they want to share their knowledge with others and help them. They agreed to answer questions that they are comfortable handling over the phone, without charge, and within reasonable time limits (at the volunteer's discretion).

These individuals are volunteering to assist NTPCUG members. NTPCUG is assisting in finding these volunteers for you, but cannot be responsible for unsatisfactory outcomes. Next to each subject, we will list the person's name, phone number and the times they are available. Please honor the wishes of our helpers by seeking help only during those hours.

SUBJECT HELPER	PHONE	DAYS/HOURS
Access		
Larry Linson	(817)481-2350	M-Sa 1300-1500
Assembly Language		
Frank Cavallito	(214)423-9221	7 1800-2200
Glynn Brooks.................	(214)578-8737	M-F 1700-2200
BASIC		
Mike Firth	(214)827-7734	7 0800-2200
Beginner Problems		
Jan Parkhill....................	(214)828-2216	M-Sa 0900-1700
Shirley Hudgens	(214)352-2800	7 0900-2000
Brother's Keeper		
Neil Sunderland............	(214)272-2869	7 0900-2200
C++ (the language)		
Bob Adams....................	(214)328-1455	M-Sa 0900-1900
Howard Harkness..........	(817)267-6227	7 1000-2100
Doug Cochran	(214)578-9258	T&T 1800-2030
CorelDraw		
Linda Hume...................	(817)472-7555	M-F 1900-2200
....		S-S 1300-2200
Batch Files		
Charles Miller	(903)938-4220(*)	7 1900-2400
Borland C++		
Bob Adams....................	(214)328-1455	M-Sa 0900-1900
Howard Harkness..........	(817)267-6227	7 1000-2100
Comm Software		
Doug Gorrie..................	(214) 464-7942	M-F 0800-1700
....	(214) 618-8002	S-S 1000-1900
CompuServe		
Bob Adams....................	(214)328-1455	M-Sa 0900-1900
dBASE III, III+, IV & Windows		
Ted Gillam	(214)964-7923	7 0800-1700
Delphi (Borland)		
Howard Harkness..........	(817)267-6227	7 1000-2100
DOS		
Bob Russell	(214)422-4269	7 1900-2200
Erik Leaseburg	(817)265-7550(m)	7 2000-2200

SUBJECT HELPER	PHONE	DAYS/HOURS
DR DOS		
Ralph Beaver.................	(817)336-0570	M-F 0800-1700
....	(817)624-9530	SS 0900-2100
Hardware Help		
Charles Miller................	(903)938-4220(*)	7 1900-2400
Internet - General		
Erik Leaseburg	(817)265-7550(m)	7 2000-2200
David Martin	(214)717-0523	M-F 1900-2200
Internet - Telnet, FTP, NetScape, Web Explorer (OS/2)		
Bob Wilson	(214)517-1434	M-F 1900-2200
....		S-S 1000-2200
LANs — Novell		
Joseph Beasley	(214)225-8752	7 0800-2400
— Lantastic		
Joseph Beasley	(214)410-3818	7 0900-2200
Managing Your Money		
Glynn Brooks.................	(214)578-8737	M-F 1700-2200
Modems		
Erik Leaseburg	(817)265-7550(m)	7 2000-2200
MathCAD		
Bob Adams....................	(214)328-1455	M-Sa 0900-1900
OS/2		
Larry Truesdale	(214)442-7074	7 1000-2200
PC Tools/Win		
Glynn Brooks.................	(214)578-8737	M-F 1700-2200
Paradox		
Fred Williams.................	(214)492-1315	7 1300-2100
PKzip/PKUNzip		
Erik Leaseburg	(817)265-7550(m)	7 2000-2200
ProComm/ProComm+		
Doug Gorrie...................	(214) 464-7942	M-F 0800-1700
....	(214) 618-8002	S-S 1000-1900
Bill Green......................	(817) 731-1308	

SUBJECT HELPER	PHONE	DAYS/HOURS	
Joseph Beasley	(214)225-8752	7	0800-2400
Joseph Beasley	(214)410-3818	7	0900-2200

Publisher (Microsoft)

Bob Russell	(214)422-4269	7	1900-2200
Pat Cote........................	(214)522-1717 x266	M-F	0800-1700
....	(214)424-1738	7	1000-2200

Quicken

Billy Pitts ....:................	(817)430-8148	7	1830-2100
Jim Hall	(214)348-7848	7	1000-2100

Quickbooks

Jim Thompson	(214)953-0051	M-F	0800-1800

SPFPC

Doug Gorrie	(214) 464-7942	M-F	0800-1700
....	(214) 618-8002	S-S	1000-1900

TurboVision

Don Cochran	(214)578-9258	T&T	1800-2030

UNIX

Doug Scott.....................	(817)261-4653	7	1830-2200

Virus & Anti-Virus

Charles Miller.................	(903)938-4220(*)	7	1900-2400

LEGEND:

7......	All 7 days of each week	M-F ... Monday through Friday
T&T...	Tuesday and Thursday	M-Sa .. Monday through Saturday
S&S...	Saturday and Sunday	(*)..... Caller should incur any Long Distance charges

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Visual Basic -

Jim Carter	(214)235-5968	7	1700-2130
L.J. Johnson	(214)495-9067	7	1700-2130
Gene Hamelman.............	(214)495-6342	7	1700-2130

Windows for Workgroups

Joseph Beasley	(214)225-8752	7	0800-2400
Joseph Beasley	(214)410-3818	7	0900-2200
Bob Russell....................	(214)422-4269	7	1900-2200

Word for Windows

Bob Russell.....................	(214)422-4269	7	1900-2200

WordPerfect 6.x /Win

Georgene Harkness........	(817)267-6227	7	1000-2100

Works, Microsoft

Mike Firth	(214)827-7734	7	0800-2200

XENIX

Doug Scott.....................	(817)261-4653	7	1830-2200

The subject areas below do not have a volunteer to answer questions. If you would like to assist or add possible categories for the future, please contact Doug Gorrie at (214)464-7924 M-F 0800-1700 or Sa & Su 1000-1900 at (214)618-8002. Doug will send you a form on which you can list your qualifications and sign.

Areas Needing Helpers:

Borland Turbo C	Smart Notes
CAD	Sound Blaster
Dataflex	Stacker
Desktop Publishing	TurboTax
Easy Text	Corel Ventura
First Choice	XTree
First Publisher	
Fox Pro	
Harvard Graphics	
LapLink	
Money Counts	
Microsoft C	
Microsoft C++	
Microsoft Visual C++	
Microsoft Word	
MKS products	
Norton Utilities	
PAF	
Pagemaker	
Q & A	
Roots	

North Texas PC Users Group, Inc.

Membership Application

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

Member # _____

Name: (Last) _____ (First) _____

Address: _____

_____

City: _____ State: _____ ZIP: _____

PHONE:(Check Preferred No.) Home ____ (____) _____

Work ____ (____) _____ (Ext) _____

Occupation/Profession:_____

Check one from each column below		
Payment:	Membership, Classification:	Application Status:
Cash _____		New Member _____
Check_____	Regular ($24.00) ___	Renewal _____
Credit Card_____	Student ($16.00____	Address Change ____

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

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

North Texas PC Users Group, Inc.

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

Phone (214) 746-4699 for recorded information about the North Texas PC Users Group and scheduled meeting date times and locations. Please leave a message if you would like specific information about the Group.

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

NORTH TEXAS PC USERS GROUP
Officers and People
You should know . . .

North Texas PC Users Group, Inc.
Board of Directors

Andy Oliver, Chairman
Reagan Andrews Timothy Carmichael
Doug Gorrie Alex Lilley
Jim Hoisington Fred Williams

NTPCUG Officers

President	Andy Oliver	(214) 462-1896 h
President-Elect	Jim Hoisington	(214) 416-3101 h
		(214) 960-4215 w
Program Chairman	Timothy Carmichael	(214) 661-4626 w
Treasurer	Raymond T. Reyes	(903) 569-2638
Secretary	John West	(214) 620-8741 h
Membership Dir.	Jim Hoisington	(214) 416-3101h
Advertising Dir. (Acting)	Connie Andrews	(214) 828-0699h
Publicity	JoAnn Elliott	(214) 231-5332
Disk of the Month	Jan Parkhill	(214) 828-2216 h
Volunteer Coord.	Claude McClure	(214) 867-0978 h
Bulletin Board	Fred Williams	(214) 492-1315

Members Emeritus

John Pribyl (1924 - 1993)
Phil Chamberlain Jim Hoisington
David McGehee Stuart Yarus
Tom Prickett Connie Andrews
Kathryn Loafman Reagan Andrews
Fred Williams Timothy Carmichael

NTPCUG Bulletin Board

NOTE: To access the BBS Metro line from outside Area Code 214, use Area Code 214. *(This is NOT a toll call from Fort Worth and the Mid-Cities area.)*

Bulletin Board Settings: N – 8 – 1
(No parity, 8 data bits, 1 stop bit)

NTPCUG BBS Telephone Numbers:
.... (214)387-2751
.... (214)387-2752
.... METRO (214)263-9036

SYSOP: .... Fred Williams
Assistant Sysop: .... Tom Prickett
Assistant Sysop: .... Doug Gorrie
Information Mgt: .... Lewis Graber
User Relations: .... Adam Peterson

Voice line for validation problems:
(214)682-0725 .... Ask for Adam

TI PRO BULLETIN BOARD .... (214)361-5275
SYSOP: .... Tom Blackwell

Address Changes, etc...
Payment of dues, address changes, and inquiries about membership should be directed to:

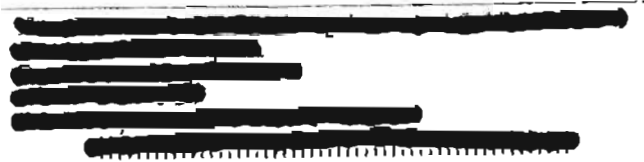NTPCUG Membership Director
P.O. Box 780066
Dallas, Texas 75378-0066

North Texas PC Users Group
P.O. Box 780066
Dallas, Texas 75378-0066

Address Correction Requested

15.2

North Texas PC Users Group

Dallas North
Tollway

Slemmons Freeway

INFOMART

Oak Lawn Ave.

35

Next Meeting:
10 February 1996

To Downtown
Dallas