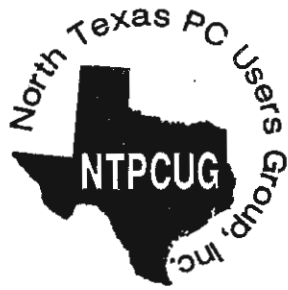
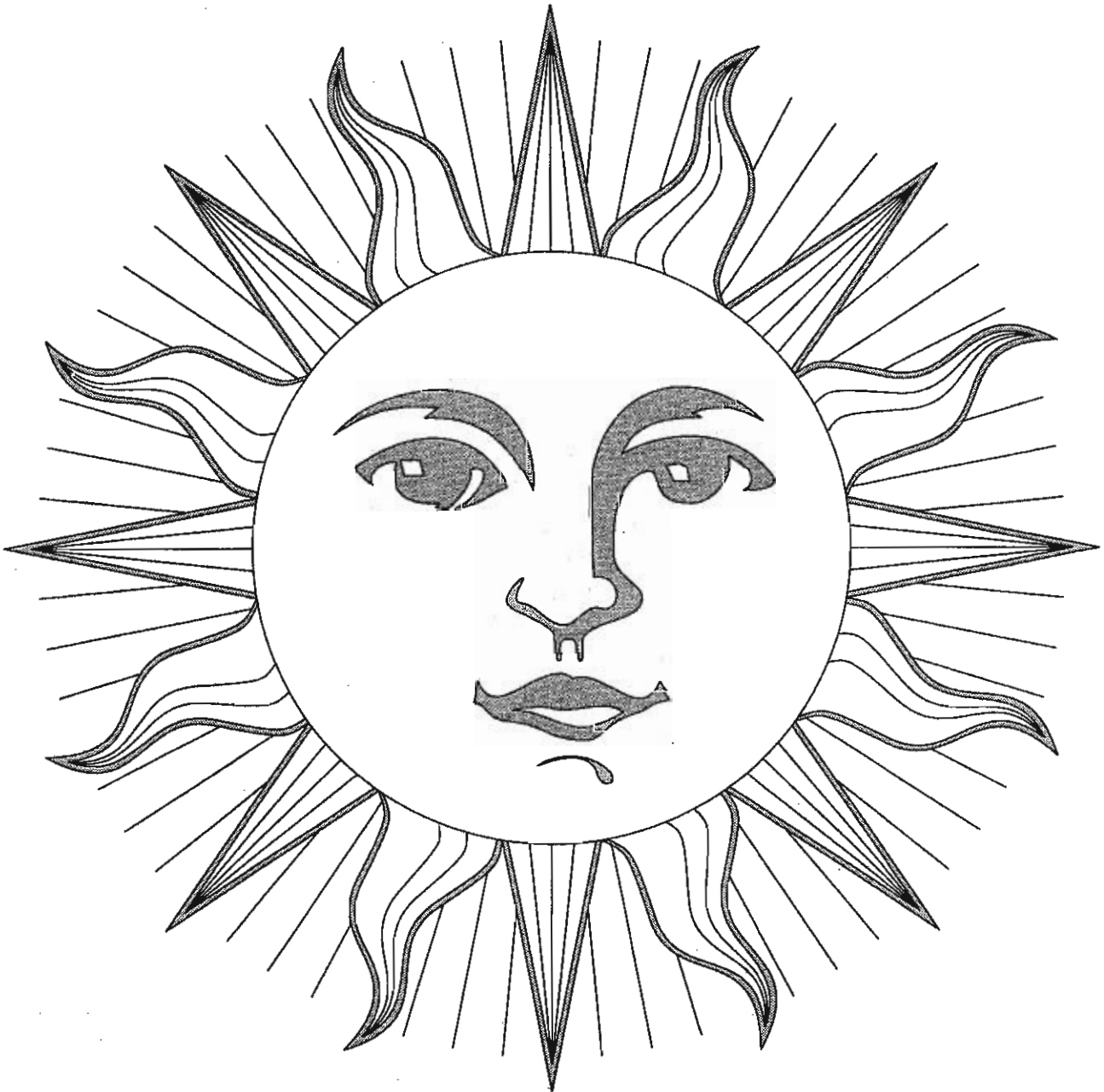


Price \$3.00

North Texas



PC NEWS



July, 1998

VOLUME 17 • NUMBER 7

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All advertising and other material for publication in North Texas PC NEWS must be received by the NEWS staff by the 15th of the month prior to publication unless otherwise listed. See deadline information below.

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DEADLINE

**Copy deadline for August
North Texas PC NEWS:
Wednesday, July 22nd**

Meeting Dates:

**July 18, 1998 – 3rd Saturday
August 15, 1998 – 3rd Saturday
September 12 – 2nd Saturday**

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Visit the North Texas PC Users Group web page:
<http://www.ntpcug.org>

North Texas PC News

Advertising Prices and Policies

Ad Size	1X	3X	6X	12X
2-Page Spread	\$400.	\$325.		
Full Page (7 x 9)	225.	195.	\$165.	\$150
Half Page (7 x 4 1/2)	150.	125.	110.	100
Qtr Page (3 1/4 x 4 1/2)	100.	80.	65.	55
Business Card (2 x 3 1/4)	65.	50.	40.	35
Business Card (Members)	35.	25.	20.	20

Reduced rates for multiple insertions of same ad. Require prior ~~confirmation in writing and~~ payment in advance (3 months minimum). Copy and mechanical ~~changes requested between~~ insertions will be billed accordingly.

Deadlines: All advertising copy must be received by the ~~PC News staff~~ no later than the 10th day of the month prior to the month of ~~publication unless~~ other arrangements are made with the Publisher. ~~NT PC News publication date~~ is 10 days before the monthly meeting of the North Texas PC Users Group.

Policies & Mechanicals:

- Commercial ads must be in repro form, in final size, ~~ready for printing~~
- Halftones must be furnished as final size, screened ~~prints or negatives~~
- Halftone screens cannot exceed 100 LPI maximum.
- No ads on front cover. Bleed pages and color ~~must be discussed~~ with Publisher before submission.
- Related ads only; suitability is at discretion of the ~~Publisher and~~ the North Texas PC Users Group Board of Directors.

Payment: Payment in advance of publication. Make checks payable to: North Texas PC Users Group, Inc.

11:00 AM

NTPCUG

July

BUSINESS

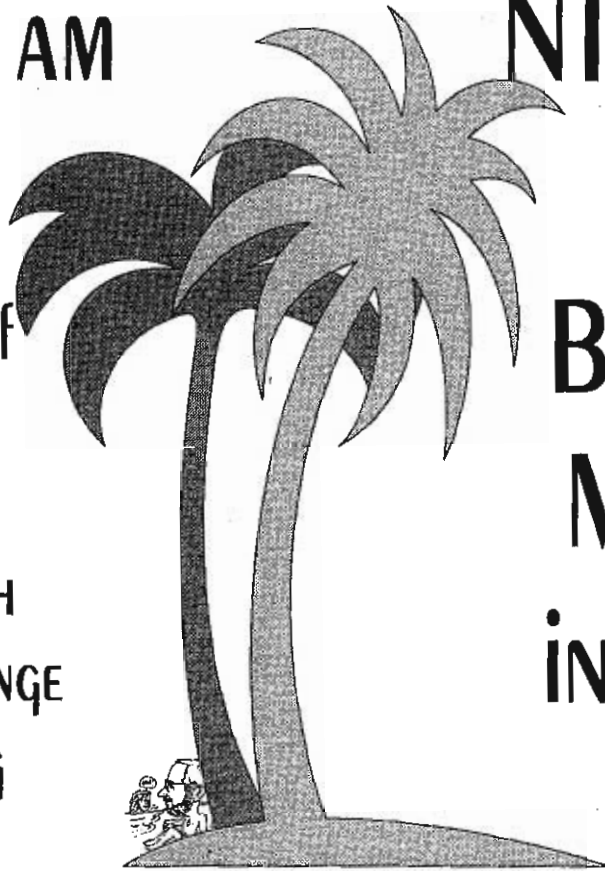
MEETING

IN ROOM

1061

July 18, 1998

Why NOT
TRY ONE OF
NTPCUG'S
50+ SIGs
THIS MONTH
FOR A CHANGE
OF MEETING
PACE?



SIGs NTPCUG Special
INTEREST GROUP
MEETING SCHEDULE

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

8:00 - 9:55
Hardware Solutions

9:00 - 9:55
DOS/ Operating Systems
General Genealogy
Internet-Advanced
Introduction to the PC
SQL Server
Quicken
Visual BASIC
Windows Applications
MS Word for Windows

9:00 - 10:55
Dallas Corel

10:00 - 10:55
ACT!
CAD
Delphi
Emerging Technologies
Fox Pro Database
Networking
Internet-Beginning
Introduction to the PC
PAF-Genealogy
WordPerfect for Windows
UNIX

11:00 - 11:30
Business Meeting

11:00 - 11:55
Assembly Language
Family Tree Maker

11:00 - 11:55 Ctd.
CAD (Cont.)
Investors
Graphics
Microsoft FrontPage
Paradox
Ultimate Family Tree
Spreadsheets
Microsoft Visual C++/MFC

11:30 - 12:00
NTPCUG Orientation

12:00 - 12:55
Access
Alpha Four
C++ Language
Communications
Desktop Publishing
Introduction to the PC
Java
The Master Genealogist

12:00 - 1:55
VRGN Internet Gaming

1:00 - 1:55
ActiveX Developers
Business Apps./DAC Easy

Introduction to the PC
Lotus Notes & Domino

QuickBooks

2:00 - 2:55
Advanced Programmers

SIG Schedules may be subject to changes at the last minute. Please consult the BBS, or the NTPCUG Web page (www.ntpcug.org) and remember to check the hand-outs in the INFOMART lobby and at the NTPCUG Information Booth in the Vendor Area for latest SIG schedules and room locations.

A New Club Officer & New Member Benefits

Noth Texas PC Users Group acquired a new officer in June. **Wade Emmert** stepped in to take over the role of NTPCUG Secretary in addition to being co-leader of the Visual C++/MFC SIG.

SAM'S Club Membership

One of the items that we discussed earlier this year to help membership was to add to the benefits of membership. User group member and volunteer, **Lewis Graber**, took on the task of obtaining membership status at Sam's Club locations in North Texas for NTPCUG members.

With your NTPCUG card and driver's license, each NTPCUG member can now obtain a no-charge "plus 5%" Sam's card. This offer is only good at the 12 Dallas - Ft. Worth Sam's Club locations and the store in Sherman, Texas.

In addition to the standard shopping that we know about, Sam's Club has a long list of other services to members, which includes:

- ❖ Auto purchase program (new or used)
- ❖ Travel Services



- ❖ Boat & RV purchase program
- ❖ Personal Development
- ❖ Personal Software Training discounts
- ❖ Personal Long Distance phone service (9.5 cents per minute)
- ❖ Internet Service
- ❖ Personal Check Orders
- ❖ Service Agreements
- ❖ Extended Warranties
- ❖ Mail Order Pharmacy
- ❖ Health Services Discount Network

If you would prefer, you can obtain an "individual advantage membership" which has a \$35 per year posted price with no 5% upcharge. The break point where the no-charge plus 5% system loses its economic benefit is \$700 per year in purchases.

This is a great new benefit for NTPCUG members. Thank you, Lewis, for your efforts on all of our behalf.

NTPCUG Media Star

Look for **Jim Hoisington** on Channel 8 on Wednesday, July 15. Jim was interviewed at the Information Booth during the June 20 NTPCUG meeting.

Micrografx SIG Special

The Micrografx SIG will hold a special, three-hour meeting covering new products and techniques at the July 18 meeting from 11 a.m. - 2 p.m.

Missed You

I did not make it to the June NTPCUG Saturday meeting. Thank you to President-Elect, **Jim Hoisington**, for filling in for me during the Hawaiian Shirt Month meeting. I was thinking about you as I wore my Caribbean shirt on a Carnival cruise from Tampa to Grand Cayman to Cozumel and back to Tampa.

Andy

NTPCUG TRAINING VIDEOS

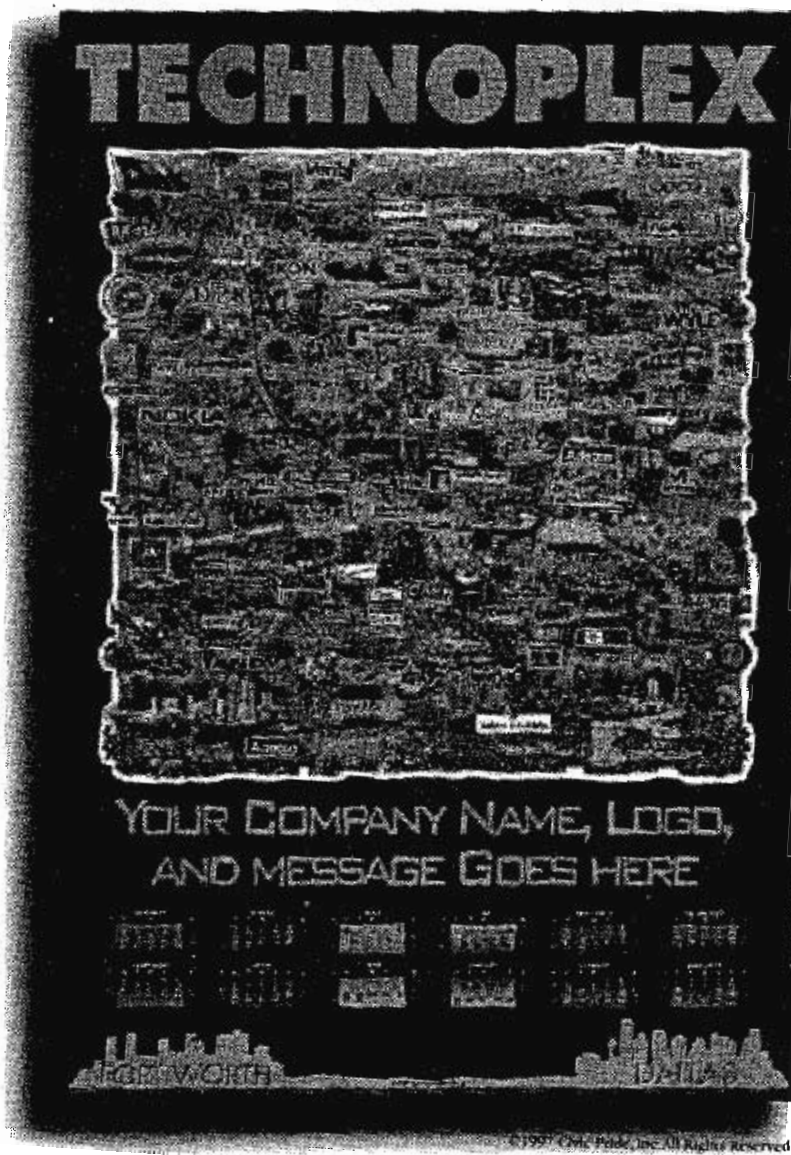
Check out the new NTPCUG Multimedia Rental LIBRARY

*NTPCUG is now offering
(as a member benefit) rental of training
videotapes, audiotapes and CD's to
Members at the NTPCUG Information
Booth in the Vendor Area*

The NTPCUG Multimedia Library Includes:
Program Tutorials, Interactive Learning Guides
for Beginners and Advanced Users in a wide
range of PC Applications from Arts & Graphics
to Windows 95 and ... Everything in Between

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NTPCUG Information Booth
Claude McClure (972) 867-0978

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DEAR Bullish Bob . . .

As a long-time member, and current Board of Directors member, I really hate to continue to see that it is apparent that many of our members find only the once-a-month chance to win a valuable prize the driving factor behind continued membership. That does not reflect well on our overall range of "value-added" services a member gains access to when he signs on the dotted line each year.

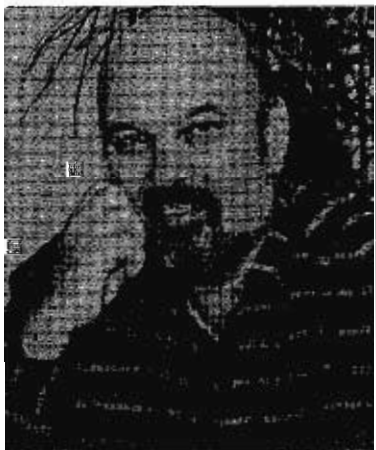
It is possibly apparent the differences between an Investor (me) and a Trader (you?) are showing through here! I look at membership in NTPCUG as a long-term investment, not a quick trade. I guess that is obvious, since I went to the second meeting held at SMU back in '81.

I encourage you to do a couple of things to help solve your need for a "level playing field". First and foremost, look at the other things NTPCUG has to offer. If you find something you could benefit from not there, volunteer to bring that service on board. We, the NTPCUG, need to identify and implement new and needed services for our membership so we don't have members who only perceive the cost of membership as a yearly lottery ticket alone.

Secondly, as an obviously knowledgeable study of things economic, you need to understand where we, the NTPCUG, draw the resources necessary to continue to survive in a very resource-intensive environment. The only single driving force behind the personal computer industry is creating demand and delivering product for our industry.

We are just a small potato in the economic garden of PC computers. But, we are big enough to extract a cost of presentation, free product so to speak, from many of our main auditorium presenters. We also have the power to control distribution of said product in many instances.

Free product is not the main focus of our selection of main auditorium presenters. It is a nice fringe benefit, but is far down the list of things to base a presentation offer on. It is made very clear to a potential presenter how critical to attendance a give-away is, but there are no pre-conditions. When a large or "important" vendor wishes to make a presentation that the NTPCUG feels is



Members' NTPCUG Gripes Comments & Opinions



"important" to the membership in general, that vendor is going to have more negotiating power than a "lesser" player.

Kind'a like how Cisco, trading at \$70+, and Bay Networks at \$20+, might approach a NTPCUG visit. If Cisco wished to present to NTPCUG, they would have more leverage (larger market share) than Bay Networks. That's why you see the major vendors, like Microsoft, "dictating" the terms of an "important" presentation.

Remember, the vendors are not coming to the table to provide free software to a selected few, but to generate great demand from as many warm bodies as can be crammed into any number of rooms. The greater the audience, the happier the vendor. And the vendor is smart enough to know a give-away to a "general population" is going to draw more warm bodies per square foot than a "restricted" give-away.

But as a long time member, it troubles me that I hear this perception of membership worth from more than one member. It only reminds me that we, the NTPCUG, have a lot of work left ahead of us when it comes to member services.

Fred Williams

NTPCUG Board of Directors Member

How FAST should Web SERVER be?

If you have a question regarding the Internet that you'd like answered, please forward your inquiries to: sales@veriotexas.net. With offices located in Dallas/Ft. Worth, Houston and Austin, Verio-Texas is the state's largest Internet service provider. To learn more about Verio-Texas' products and services, visit www.veriotexas.net.

Q. I'm putting in a Web server for the first time. How fast does my Internet connection need to be?

A. Although there are no hard and fast rules for determining your Internet speed requirements since it is somewhat dependent on what kind of things you want to provide on your server, here are some good rules of thumb:

Don't worry about simultaneous access at first. The first thing to do is make sure you've got enough bandwidth to send the objects you want to send in a reasonable time. That provides a lower



bound on your line speed no matter what level of traffic you have.

It should take 5 seconds at most to send a page. The five-second rule dates from command-line days, when that was about as long as people would wait before getting impatient with the system. It seems like a reasonable number to use now.

Since external images, audio, etc. are somewhat exceptional, allow more time for them. If you think they should have the same restrictions as above, buy the bandwidth your site will need to do so. However, the rule of thumb for external images and audio is:

It should take no more than 30 seconds to send an external file.

Given these rules, it's pretty straightforward to work out how large an HTML page and external files can be. At least, it's easy after you simplify things by ignoring IP overhead on the line, compression modem lines, and anything that's less than 10% of the total.

The one simplification not to ignore is the multiple packet round trips it takes to get data flowing through an HTTP channel. For modem lines, this is nearly a second for each HTTP connection, which is significant. For leased lines, it's more like .1 or .2 seconds, which is not significant.

On a 14.4 line assumed to be sending 1.4Kb of data/second, with a 1 second startup, you get 4*1.4 or 5.6K of HTML. If you want to include a single inline image, that's two seconds of startup, so you're down to 3*1.4 or 4.2K of HTML + image. This means smallish HTML pages, and simple inline images. For external files, you get 29*1.4 or

Who's Verio?

Verio merged with ONRAMP earlier this year. Verio will be hosting the NTPCUG Web page and assisting with transition to a more integrated site that will feature member E-mail and newsgroup access in the future.



Formerly OnRamp, National Knowledge Networks and Signet Partners

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40K, which is still a small image. If you have a 28.8 line, you get to double those figures.

On a 56K leased line assumed to be sending 5K/second, you get 25K of HTML, or mixed HTML/data. For external images, its 150K. That should cover any reasonable HTML document, and small to medium external files. An MPEG movie might be a bit much.

With a T1 line assumed to be sending 150K/second, you get 750K of HTML, or 4.5 MB in an external file. Barring large animation, this should be sufficient for anything you want to serve. More would be faster, but it also gets more expensive.

Now that you know the minimum bandwidth to deliver a single object in a timely fashion, let's consider the total throughput of your site. The maximum throughput is about 118MB for 14.4 modem line, 422MB for a 56K line and 12GB for a T1 line.

Now look at the total bandwidth you are going to use. Don't forget that things other than HTTP serv-

er will be using the line and some of them may require more bandwidth than the server. If you need more than 100% of the available bandwidth, you have to buy more bandwidth. If you need more than 50% of that bandwidth, you should probably buy more as well. Anything less than 50% should put you in an acceptable range.

To plug in some sample numbers, let's assume that the average size of a served object is 20K. Based on this premise a 56K line can reasonably be expected to support up to 11,000 accesses a day, and a T1 up to 315,000 accesses a day.

Q. Which format is better for Web image purposes, JPEG or GIF?

A. Almost all browsers can view inline JPEG, and there are free libraries available to do that so there is no need to avoid inline JPEG any longer. So the proper question is, which format is better for your specific purpose?

JPEG is for photographic images. GIF is for line-art images such as icons, graphs and line-art logos. You will very likely find that JPEG produces smudgy line art and GIF produces large and washed out photographs. Use them accordingly.

However, never convert GIF to JPEG if you can avoid it. Once your photograph has been reduced to the mere 256 colors supported by GIF, it's too late. Go straight from a lossless 24-bit format supported by your scanner, such as TIFF or PNG to JPEG.

Since JPEG is an approximate representation of an image, you shouldn't save things as JPEG and then edit them further and save them again. You can expect progressive loss of quality each time you do that, especially with different JPEG quality settings. If you must edit a photographic image, work with it in TIFF or PNG format until it is ready for publication, then convert it to JPEG for the Web.

If your images can't tolerate being reduced to 8 bits for GIF or losing the precise accuracy for JPEG, TIFF and PNG are your best options. Web browsers are beginning to support the latter, and many external viewers support both. The vast majority of Web sites should be using GIF for line art and JPEG for everything else, and migrating from GIF to PNG as browser support for PNG becomes more widely available.

THE PERFECT GIFT!

Looking for a last-minute gift that's quick, easy and keeps on giving for the entire year? Take a tip from Doug Gorrie and consider giving a one-year membership in the North Texas PC Users Group. This is an especially appropriate gift for a friend or relative who is new to computing and interested in learning how to use and enjoy the PC.

Point out the Genealogy SIGs to people who are collecting information about their families, tell friends how much the Internet SIGs can help in easing their way into really using the Web, and the benefits of friendly, early computer lessons in the Introduction to the PC SIG.

More experienced users would appreciate value of vendor presentations in making important software and hardware decisions during the year.

If you have a friend or relative who constantly "borrows" your copy of the latest *North Texas PC News*, a gift membership might be especially welcome.

Courtesy of Steve Flaig, VARIO Texas

Excel Trick & MS Office information

by Mark Gruner

Mark Gruner is former Spreadsheet SIG Leader and a Member Emeritus of the NTPCUG. Mark moved to Atlanta with his family last year.

Item #1: WOW – WOODY's OFFICE WATCH

This a neat little newsletter that you can subscribe to learn lots of little things about Microsoft Office products including where to get utilities, fixes and other stuff.

TO JOIN: Send E-mail to WOW@wopr.com

Their website is www.wopr.com which includes lots of useful stuff including back issues of WOW.

Item #1: For Excel for Windows 97 (Office 95 or Excel 7.0)

So you think you know Excel 7.0?

To those of you who thought you really knew Excel: If you have Excel for Windows 95, this really works.

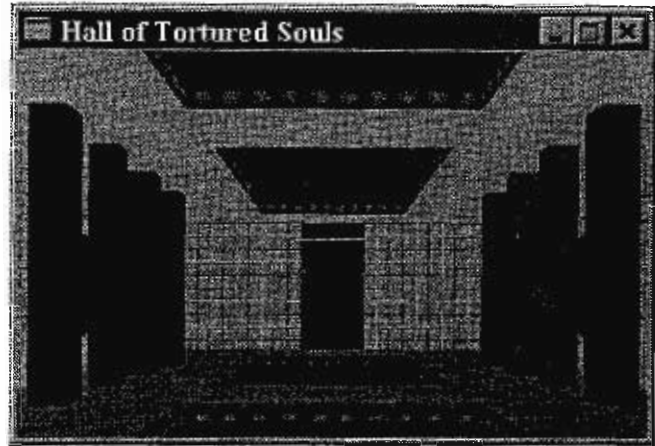
- ❖ Open Excel for Windows 95 with a blank worksheet.
- ❖ Scroll down to row 95.
- ❖ Click on the number 95 to select the whole row.
- ❖ Press Tab once to move over to column B.
- ❖ On the Menu Bar, select Help.....About Microsoft Excel.
- ❖ Hold down the Ctrl+Alt+Shift keys and click on the Tech Support button.
- ❖ A window labeled *Hall of Tortured Souls* appears.
- ❖ Directly ahead of you are stairs with a scrolling cast list, go up and take a look around - use cursor keys.
- ❖ But there is more! Turn around, go back down the stairs and type 'excelkfa' (no quotes). The wall disappears, and there's a winding path to navigate to see some pictures. Tread carefully!

Item #2: For Excel 97 (Office 97)

Since the Excel 97 development team clearly did not think that mathematical accuracy and reliable updating was important in their spreadsheet product -- it makes you wonder where they did put their considerable talents and energy.

Try this:

- ❖ * Open a new blank worksheet in Excel 97.



- ❖ * Press F5 (Goto), enter X97:L97 and click OK to go to this part of the worksheet.
- ❖ * Press the tab key to move to cell M97.
- ❖ * Hold down the control and shift keys, and click on the "chart wizard" icon on the toolbar (the bar chart with blue, yellow and red bars).
- ❖ * Welcome to Excel's built-in flight simulator utility!

Have a look around, and check out the monolith with the developer credits. To fly:

- ❖ left mouse button: each click bumps up the speed a notch
- ❖ right mouse button: each click bumps up your speed in
- ❖ reverse by a notch.
- ❖ steer with the mouse
- ❖ * To get back to work, hit ESC (you have to quit and relaunch Excel to get the flight simulator to work again.)

Mind you, I can't always get it to work on all Excel 97 installations that I've tried. Like other things in Microsoft's flagship spreadsheet it's not 100% reliable. But when it does work it makes you wonder about the programming priorities at the Redmond campus. I like a clever Easter egg as much as the next guy but this intricate flight simulator seems a waste of time and talent - especially in light of the serious shortcomings in the product.

As one WOWser said to Peter, "aren't you glad Microsoft has more important things to do than fix the Excel recalc bugs?"

Mark H. Gruner
mark.gruner@eds.com
 (404) 812-2833
 (404) 812-2466 Fax



A Glass Of Milk

Somebody left a glass of milk next to the keyboard.

Reactions--

Optimist: The glass is half full.

Pessimist: The glass is half empty.

Futurist: The milk's in the wrong half of the glass.

Pascal programmers: Well, what type of milk is it?

C Programmers: No thanks; I drink straight from the jug.

Assembly programmers: No thanks; I drink straight from the cow.

Basic programmers: No thanks; I'm still breast feeding.

MIS: I'll drink it if you can give me until next year.

Fuzzy logic guys: I may or may not have drunk some part of that milk.

Prolog programmers: I know I drank it - just don't ask me how.

Non-procedural language programmers: I drank it when nobody was looking.

UI designers: What's that crap in my glass?

Pentium users: I drank Glass * .4999999... but don't hold me to that.

Windows users: Where's my straw?

Mac users: Where's my pump?

UNIX users: Nahh . . . too easy.

*Patrick Dryden, Senior Editor,
ComputerWorld*

FORGOTTEN Help for Windows Hidden in C:\Windows

By Etoine Shrdlu

There is a world of free help available to Windows 95 users they may have overlooked. If you look in the Windows directory on C:\, you will find a number of .TXT files placed there by SETUP when Windows 95 was installed. These files cover possible hardware problems users may experience, software work-arounds, network tips, printer installation and problems, MS-DOS drivers and possible display problems users may encounter in installing and using Windows 95.

Unfortunately, there are a number of other .TXT files which are essentially LOG files left by various program installation routines. I have listed what I believe are the best and most useful of the Microsoft files below.

The most valuable files are:

- ❖ EXTRA.TXT
- ❖ FAQ.TXT
- ❖ DISPLAY.TXT
- ❖ CONFIG.TXT
- ❖ INFRARED.TXT
- ❖ MOUSE.TXT
- ❖ MSDOSDRV.TXT
- ❖ NETWORK.TXT
- ❖ PRINTERS.TXT
- ❖ PROGRAM.TXT
- ❖ TIPS.TXT

This last file, TIPS.TXT, and the FAQ.TXT file are filled with useful information about working in the Windows and DOS interfaces and TIPS.TXT contains a listing of many Windows key-stroke commands and mouse techniques to make working in Windows 95 more efficient and fun.

All can be reached with *Windows Explorer* or via the *My Computer* icon and are worth the user's trouble to print out for reference in the future. If you can't get into Windows and need them for help in getting things working, you can reach them via the DOS command line: CD\WINDOWS, DIR *.TXT, COPY *.TXT A:\ and print via the DOS command: COPY [filename] PRN.

Etoine Shrdlu

A SHORT 'VARIETY STORE' HEADED-UP AS USUAL by Microsoft, TEXAS INSTRUMENTS AND Tandy's divestiture of Circuit City CULMINATES IN A 'FLAME' OVER GENDER DISCRIMINATION



Microsoft batting .500 this month as they score a big win in the DOJ antitrust suit with an appeals court decision that the antitrust judge had overstepped his authority. Quietly sneaking out of the dense undergrowth, a second issue appears to have blind-sided the Redmond Armada in the names game. Microsoft is noted for keeping "I's" dotted and "T's" crossed, so this one is a real surprise for me.

Locally, news was mixed as (expected) Texas Instruments (again) decided to get out of the DRAM bloodbath by selling off their DRAM facility and refocusing on their DSP line. Think that leaves Micron and IBM in the high-volume, American-made DRAM memory business.

CompUSA just keeps growing. This time, by acquiring Tandy's Computer City stores in a June move that was almost expected since Tandy was open in their plans to dump the losing line and refocus on their RadioShack stores. Hope CompUSA doesn't have same experience as AST when the California PC maker purchased Tandy's PC manufacturing business.

TOO FUNNY TO BE TRUE? MICROSOFT STUMBLES OVER INTERNET EXPLORER NAME...

A late arrival, but funny nonetheless. Microsoft is being sued over use of 'Internet Explorer' according to a story in *The Wall Street Journal* that ran on 6/26/98.

It seems there was another 'Internet Explorer' published by a company named SyNet, Inc. in 1994 and rights to the name were awarded them by the U.S. Patent and Trademark Office last month.

Microsoft has been, very quietly, trying to settle this matter, but has not been able to strike a deal with the 'owners' to date. Case is scheduled to go to jury trial 6/30/98. Should be interesting.

GENDER DISCRIMINATION AT CompUSA STORES?

I occasionally shop at CompUSA since they've opened a location near North Park, primarily because Fred Williams, CompUSA shareholder, threatened to block

my access to the NTPCUG BBS if I didn't spend enough there to keep his stock climbing. Also, I can zip through the store quickly while waiting for Connie to finish her haircut nearby.

I've learned over time that each of the PC "supermarkets" will have good prices on some items and exorbitant prices on others. It does pay to "shop" before any major PC purchase. Hence, I'll do a circle from IMS (Inwood Village) to CompUSA and, sometimes to Microcenter off Spring Valley. Last is an interesting store — really large, but selection is often limited in many areas and pricing is quite variable.

But, that's not what this is all about. It's about blatant gender discrimination at CompUSA I'd like to share with readers. It's what happens to men at the exit that apparently doesn't apply to women.

Background: I generally carry a soft shoulder bag when I'm tooling around. It holds my cell phone, checkbook, note pads, tissue packets, pens, pencils, etc.,

that have become too bulky to carry individually. It's become a subject of great curiosity for the young woman at the door who checks packages to make sure customers aren't leaving with more than they've paid for. Even when I have large sacks with \$ hundreds worth of purchases, she insists on looking in the bag, and probing in every nook, cranny and pocket in the bag.

I've stood there and watched as women with huge shoulder bags just walked by without even a glance from the shoplifting-sentinel. Even saw a young girl who appeared to be in her late teens — early 20's go by with a beach bag almost large enough to stow away an entire PC without being stopped for inspection.

I HAVE SOME BAD NEWS AND SOME WORSE NEWS FOR CompUSA.

If profits are taking a hit because too much product seems to be growing legs and walking out the door, look at your loading docks first, your employees second, and at your customers as a last resort. If you must delay and embarrass your customers, make sure you are egalitarian in your approach and inspect parcels/bags carried by them regardless of gender.

The "worse news?" Crime rates for young women, particularly shoplifting, are climbing rapidly and approaching same levels as for young men. Your policy may not just insult men, but may ignore some real dangers in the process.

Reagan Andrews

INSIDE THE NORTH TEXAS PC USERS GROUP COMMUNITY

VOLUNTEERS IN ACTION

by Claude McClure



Alas, Poor Yorick!

"I knew him, Horatio; a fellow of infinite jest, of most excellent fancy. . . Where be your jibes now, your gambols, your songs, your flashes of merriment that set the table on a roar?"...It is with these words of sad respect and reflection on the past that we remember the great fun the DOM provided for all of us. The joy of taking a bit of the NTPCUG club experience home was without equal.

Here we are digging around in the remains of the most solid example of teamwork in the Shareware Era you can find. The boxes of disks lie so orderly in their numerical sequence. This morgue represents hundreds of man-hours, but each disk is capable of coming to life with music, sound, graphics, or text. It is still there, but time has moved on.

This will be the last listing of the many volunteers who worked the DOM in the closing months. They deserve that

much and more, for the good times. Many of them remember the days of growth when the shareware disk was an effective way to launch a new product. Some will remember the name tags and other innovative ideas from **Kenneth Loafman** and **Kathryn Loafman**. The Disk of the Month banner was just one of the many contributions from **Mark Gruner**, who was also a mighty contributor of software, and plain old hard work. Thanks also to **Jan Parkhill** for his leadership.

Thank you to all of the DOM Shift supervisors who led the hour-to-hour activity. Thanks to the desk crew who always had a helping hand and attitude. Thanks to those who offered to carry on and still have the volunteer spirit.

This page is dedicated to the many volunteers whose names are mentioned here and in other parts of this newsletter. Thanks to the officers and leaders who make the NTPCUG weekend a good Saturday activity for the rest of us.

Infomart Liaison

- Stuart Yarus
- Robert Hilliard
- Alex Lilley

Vendor Setup/Breakdown

- Anchors:**
 - David Slavik
 - Kenneth Berg
 - Dick Abbott
- Crew:**
 - Peyton Weaver
 - Janet Ward
 - Neal Van Pelt

Auditorium Presentations

- Timothy Carmichael
- Chris Jung
- Christopher Carmichael

Newsletter Labels

- Charlie Fernandez

Information/Registration

- Booth**
- Statistician:**
 - Connie Andrews
 - Ralph Beaver (Assistant)
- Scheduler:**
 - Bob Wuller
- Anchors:**
 - Vernon Cates
 - Albert Champion
 - Hank Holt
 - Cinda Lovil (Double)
 - David Martin

Bob McNeil (Double)

- Foy J. Mills
- Fred Toulmin
- Paul Williams
- Matt Williams
- Booth Crew:**
 - Al Aston
 - Glynn Brooks
 - Randy Durham
 - James Gorak
 - Herbert Gross
 - Steve Martinson
 - John McNeil
 - Carl Oehmann
 - Raymond Reyes
 - Ken Sauter
 - Janet Ward

Disk of the Month (DOM)

- DOM Shift Supervisors:**
 - Joe Allen
 - Roy Bales
 - Philip Bridge
 - Don Chick
 - James Donlon
 - M. Pat Henley
 - Martin R. Gluck
 - Arnold Krusemark
- DOM Desk Crew:**
 - Michael Ashley
 - Douglas Athas
 - Bernie Baars
 - Richard Blair
 - Linda Campbell

Gene Carleton

- Norm Dang
- William Farris
- Edwin Griffin
- Jimmy Hurst
- Tom Jackson
- Tom Jones
- Mac McKeethen
- Mark Miller
- Nancy Ogden
- John Primm
- George Read
- Jim Russell-Redman
- Oscar Tyler
- Lee Williams

With Special Thanks to:

- Set Up Crew:**
 - Kent Haven
 - M. Pat Henley
 - David Huckabee
- Inventory and Take-down Crew:**
 - Richard Blair
 - Mark Christopher
 - Martin R. Gluck
 - Arnold Krusemark
- DOM Desk Scheduler:**
 - Philip Bridge
- Disk Production:**
 - Gene Carleton
 - Howard Hamilton

VOLUNTEER INFORMATION

1. Via BBS: (972)387-2751, (972)387-2752 or (972)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 (972) 661-4626 (w)
- DOM Booth Scheduler**
 - Phil Bridge (972) 422-5400
- DOM Software Review**
 - Mark Grunerl (972) 964-8147 (h)
- Information Booth and General Information**
 - Claude McClure (972) 867-0978 (h)

Selected SIG Reports . . .

News and meeting notes of Special Interest Groups
(Material for this column should be sent NTPCUG BBS SIG Upload Area or to Connie Andrews, Special Interest Group Editor, before the 10th of the month.)

Access SIG

At the July meeting, **John Criswell** will answer the question, "How can I display multiple fonts, italics, and bold text with Access but without buying the whole Developer Edition just for that capability?" The answer is FMS, Inc.'s Total Access Memo control. John will show us some things you can do with the control. He'll describe a few that you can't and tell us about simple workarounds for some. John recently used this control to satisfy a client's need to include formatted text in an Access 2 application.

In June, **Larry Linson** presented FMS, Inc.'s Total Access Code Tools - software tools to make life easier for the Access user and developer. Another round of equipment problems, this time with setting the con-

trols on the projection plate, left Larry at the whiteboard for yet another month. We didn't get a live demo, but Larry gave Code Tools a strong recommendation. This concludes our coverage of the FMS products making up their Total Access Developer Suite. (John's presentation is an "extra added attraction" of a product not included in the suite).

If it's seemed we were overemphasizing FMS products lately, that's because FMS graciously provided us demo and giveaway copies of several products. We found them to be useful and reliable tools, and they were products that we could recommend. As a matter of practice, if we can't recommend a product, we won't waste the time of the Access SIG attendees by reviewing it. Over time there have been a few that "didn't make the cut" to be re-

FROM THE SIG COORDINATOR

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

Groups Looking for Help in Leading their SIGs:

- **MS Word for Windows** [Contact Jan Patton @ (903) 886-6249h or janpat@unicomp.net]
- **Spreadsheets SIG** [Contact Eb Foerster @ (214) 357-7602 h]
- **Dallas Corel** [Contact Marsha Drebelbis (214) 951-0266]
- **Hardware Solutions** [Contact Charles Miller (903) 938-4220 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 (972) 517-7430 (H) or (972) 960-4276 (W).

SPECIAL INTEREST GROUPS SIG LEADER LISTINGS

SIG Coordinator

Alex Lilley (972) 517-7430 h
Legend: h = Home #, w = Work #
 M = Metro #

ACT /

Jim Thompson . . . (817) 261-6159 h
 (972) 487-8499 w
Deborah Boan . . . (972) 475-7463 h
 (972) 475-3124 w

Access

Larry Linson (817) 481-2350 hM
Jack Atkinson (817) 481-6623 h
Dianina DeCicco . . . (972) 446-0638 h
Tom Lukers (972) 423-4308 h

Alpha 4 / 5

Ron Jackson (972) 276-3661 h
Bill Parker (214) 369-5889 h

ActiveX Developers

Larry Linson (817) 481-2350 h
Linda Moore (214) 342-8833
Vince Prehn (214) 880-0000
Dan Ogden (972) 417-1916 w

Assembly Language SIG

Frank Cavallio (972) 423-9221 h
Glynn Brooks (972) 578-8737 h
 (972) 710-3281 w

Business Applications/DAC

Putt Shaw (972) 235-2559 h
Bruce Schubert . . . (972) 394-5328 h
 (972) 233-8353 w

C++ Language

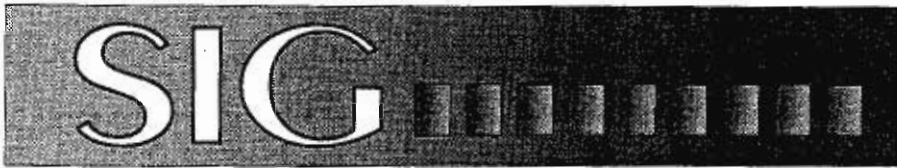
Howard Harkness (972) 482-1508

CAD

Bill Sephton (972) 296-1799 h
 (972) 387-3500 w
Neil Craver (972) 680-6562 h
 (972) 235-3031 w

Communications

Alan Brosz (972) 548-7928 h
 (972) 498-1237 w
Biri Smith (972) 960-8227 h
 (214) 220-9388 w



viewed (none of those were from FMS, by the way). If you see it here, the presenter recommends it.

Looks ahead: The Board is looking into alternatives to the demo machines (for which we lost our storage space). We'll keep you advised of progress. Fortunately, John will demonstrate Memo on his own notebook computer, so July is not a problem.

Special Opportunity: Larry will be glad to give you some public exposure, with advance publicity. You'd be doing the SIG attendees a special favor, too, if you would present on most any Access or Access-related topic. It can be for any level of Access user, novice through professional developer, on most any aspect of Access or on Access-related items. See Larry at the meeting, or call him at the number in the SIG Leaders sidebar.

Between meetings, check out our local MS ACCESS message conference on the NTPCUG BBS (electronic bulletin board system). Telephone numbers are inside the back cover of this issue. It's where we ask and answer questions, post sample code, and keep in touch between monthly meetings. Oh, yes, while you're on the BBS, take advantage of the free Internet e-mail. If you're on the Internet, the Access "meeting place" is the *comp.databases.ms-access* newsgroup.

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

Larry Linson

ACTIVE X APPLICATION DEVELOPERS SIG

Dan's working on getting a special guest speaker for the July meeting, but plans were not finalized at the

time of writing. If that doesn't work out, we'll cover topics of interest in the world of ActiveX Application Development.

In June, Dan Ogden presented and demonstrated the contents of the Microsoft Office 97 Developer Edition, with particular emphasis on the ActiveX controls that are included. We discussed the Access runtime, but didn't package an application for distribution because of time limitations. Dan also showed some worthwhile samples of using the controls, obtained from the Developer Edition CD and from a sample Microsoft TechNet CD. Thanks, Dan, for a great demonstration.

The ActiveX Application Developers SIG addresses issues of developing applications under the Component Object Model (COM) using ActiveX Controls and other ActiveX components. Just because so many of our attendees work in Microsoft Office and other software using it, we have considerable emphasis on VBA issues. We still ask and answer a few questions about Open Database Connection (ODBC) technology, too. As hot as the Internet is, our topics aren't necessarily about *Internetting*, since ActiveX controls work equally well on the desktop and in client/server environments. That's one of the attractive features: one type of control, usable in many environments.

Come join us in July, and we'll do our best to make it interesting and productive for you.

Larry Linson

ASSEMBLER SIG

Many thanks to Glynn Brooks for filling in for the May meeting.

SIG LEADER LISTING

Legend: h = Home #, w = Work #
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Dallas Corel

Marsha Drebelbis (214) 951-0266
Susan Biggs (214) 340-7794

DOS/ Operating Systems

Jim Hoisington..... (972) 416-3101 h
Reagan Andrews (214) 826-0699 h

Delphi

Fred Williams (972) 492-1315
Tom Browning..... (214) 692-9784 h
Frank Cavalito..... (972) 423-9221

Desktop Publishing

Mark Stuertz..... (214) 528-5311 h

Emerging Computer Technologies

Dick Vedder..... (817) 481-6457 w
Lynn Peterson
Walter Johnston .. (972) 612-0604 h

Fox Pro

Kevin White..... (972) 383-5211 w

Genealogy - General

A. Sanford..... (972) 278-7088 h

Genealogy - Family Tree Maker

Neil Sunderland .. (972) 272-2869 h

Genealogy - PAF

Joe Waldrop..... (817) 498-5856 h

Genealogy - Ultimate Family Tree

John Wylie..... (972) 495-4410 h

Genealogy - The Master Genealogist

Jeri Steele..... (972) 306-1596 h
..... (972) 917-3917 w

Graphics (Micrografx)

Neal Berkowitz ... (972) 475-7463 h
..... (972) 475-3124 w

Hardware Solutions

Charles Miller (903) 938-4220 h
Ralph Beaver..... (817) 624-9530 h
Gary Johnson..... (972) 938-0344 h

Internet-Beginner

Tom O'Keefe..... (972) 247-8812 h
Doug Gorrie..... (972) 618-8002 h
..... (214) 464-4568 w

Internet-Advanced

Erik Leaseburg ... (817) 265-7550 hM
Tom O'Keefe..... (972) 247-8812 h

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Erik Leaseburg (817) 265-7550 hM

Internet-WEB Developers

Mark Camp (214) 583-9012 w
David Maxwell (214) 977-7584 w
..... (972) 299-6295 h

Introduction to the PC

Harold (Spike) Smith
..... (972) 231-0730 h
..... Spike@allnet.net
John Randall

Investors

Dick Richtman (972) 437-0322 h

Java

Kevin Starrett
Don Benish (972) 705-9512

Lotus Notes & Domino

B.J. Shultz

MS Word for Windows

Jan Patton (903) 886-6249 h

Microsoft FrontPage

Robert Masters (972) 462-7490 hw
Jeff Cooper

Microsoft Networking

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..... (972) 756-7832 w
Richard Miles (214) 767-7315 w
..... (972) 296-5356 h
Gil Brand (214) 508-8370 w
..... (214) 341-7182 h

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John Cole (972) 689-4700 w
..... jcole@aimgail.net
Wade Emmert (214) 740-3164 w
..... emmert@aimgail.net

MultiMedia

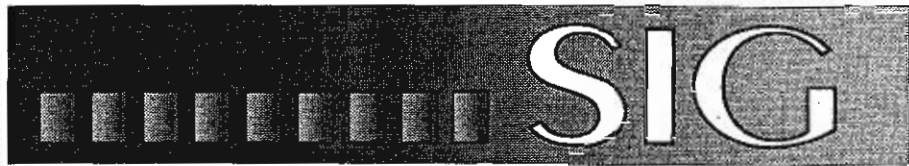
Dennis Rice (972) 680-8299 h

Networking

Mike Momen (972) 238-1244 h
..... (972) 915-2158 w
Leroy Tennison
Francis Bright

Paradox

Tom Browning (214) 692-9784 h
Fred Williams (972) 492-1315 h



Our topic in June was a presentation looking at various 80x86 opcodes that have not been implemented in C titled "Circular Shift (and other instructions missing in C)".

While circular shifts are quite popular in cryptography, the shifts implemented in C is useful for multiplication and division by powers of two.

Our July meeting will consist of a presentation on material distributed by Intel that allows a speed calibration of various processors. The technique provides an accurate guess of all the Pentium processors I've run the code on.

We hope to see you in July - as usual, suggestions for future presentations are always welcome.

Frank Cavallito and Glynn Brooks

C++ LANGUAGE SIG

General Format: Approximately one-half hour tutorial on the C++ language, followed by a Q&A session, with occasional presentations by guest speakers. Suggestions (and volunteers) for future programs welcome.

For the June meeting, I presented my revision of "The Big Three" lecture on the need for copy ctor, destructor, and assignment operator, plus a new presentation on one of the features of the STL - auto_ptr.

For July, I am planning a demo of the new Borland C++ Builder 3.0. I also have another book to give away - Tom Cargill's C++ *Programming Style*. You must be a NTPCUG member to be eligible for this giveaway.

I just finished an unexpected job search, due to the fact that the company for which I was working ran out of money. In the process, I meet several recruiters from contract placement firms, so:

For August, I am planning a panel discussion on Contracting vs. Direct Employment, featuring several local contract recruiters. I have asked them to bring goodies for giveaways. These folks are also actively looking for C++ programmers, so unless your boss is also coming, bring a half-dozen copies of your updated brag-sheet.

The C++ SIG meets at noon on Infomart Saturday each month. The meeting room is usually 7004, but be sure to check the schedule posted on the West wall of the vendor area.

SIG Leader information: Howard Lee Harkness (harkness@skeptics.org) has been teaching C++/OOA&D since 1992 for several national training companies. He is also a co-moderator of the Usenet group comp.lang.c++.moderated.

*Howard Lee Harkness
harkness@skeptics.org
New Phone# 972-492-1508*

COMMUNICATIONS SIG

The June meeting featured our very own Alan Brosz who presented "PC-PC Communications Using Windows 95". Alan described the various methods for interconnecting PCs including the use of direct cables or DCC option, traditional modems and Dial-Up networking, and Local Area Networks, or LANs as we call them. The LAN approach is considered the best for connecting many PCs as it uses Ethernet for fast data



transfers while conveniently sharing the designated resources of each PC. Alan also presented information on Ethernet LAN basics and distributed great handouts for a step-by-step configuration of the PCs using WIN 95 and the equipment required. You can build a LAN in your home for under \$100 using a simple hub, 10BASE-T cables, and WIN 95's Peer-Peer networking capability. Thanks, Alan, for a great job!

In July we will have a Q/A meeting. Some of the subjects that we discuss include 56k modems, high-speed ADSL to your home over the standard copper pair loop, and the new cable modems offering "lighting fast" Internet access. This last subject is starting to grow in interest as Marcus Cable and TCI are offering 1-3Mbps Internet access within the Dallas area, starting at \$40 per month. So for some stimulating discussion on PC communications and a chance to have your questions answered from all aspects, plan to attend our next Communications SIG meeting on July 18, 1998. You will not regret the experience!

Alan Brosz and Birl Smith

DALLAS COREL

July's program will feature digital cameras. **ProCamera** will offer our guest presentation. Learn the current state of digital camera development, see the latest products and prepare for the future. If you are like the rest of us in graphics, we are ready for the right digital camera to show up. Satisfy your curiosity and don't miss Dallas Corel on July 18.

June in Review

June's meeting proves that even with no pre-announced topic, Corel DRAW users attend the SIG to absorb any and all information that could possibly help us master our computer tools. We learned so much by hearing from other SIG members who grapple daily with graphic software and computer graphic devices. What a knowledgeable and exciting group to network with, as we race forward on this high technology track together. On June 20, topics of primary software interest were: 1) CorelDRAW 8's new maintenance release, called Build 369, 3) VENTURA version 8 just released, and 4) CorelDRAW file compatibility with Adobe products. Primary hardware interests were: 1) which video card and video capture board are best, 2) what is the current optimal hardware specification for CorelDRAW use, 3) color desktop printer solutions, and 4) removable storage options. NT is the OS now touted as best for graphics professionals, and

**IMPORTANT COREL ADDRESSES
& PHONE NUMBERS**

**Corel Corporation
1600 Carling Avenue,
Ottawa, Ontario, Canada
K1Z 8R7**

- ◆ Technical Support Representatives..... 800-818-1848
- ◆ G1 Release, CD-Rom only (latest "fixes" and patches for Corel products) 800-772-6735
- ◆ Customer Service Representatives 800-772-6735
- ◆ IVAN (Interactive Voice Answering Network) 613-728-1990
- ◆ 24 Hour Automated Fax System 613-728-0826 Ext.3080
- ◆ Technical Support hours are 4AM to 8PM (EST) excluding holidays
- ◆ To obtain our catalogue please request document #2000

**SIG LEADER LISTING
CONTINUED ...**

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

Programmers

Jim Hoisington (972) 416-3104 h

QuickBooks

Dave Guier (817) 429-7417 h
..... (817) 265-1618 w

Quicken

W. L. Hams (972) 291-7616 h
Phil Faulkner (972) 239-0561 h

Spreadsheet/Spre.Dev

Eb Foerster (214) 357-7602 h

SQL Server

Ada Finigan
Steven DeSalvo (972) 716-2684
John Peraska (972) 431-3979
Ern Welker (972) 462-6033

UNIX

Doug Scott (817) 261-4653 hM
..... (817) 878-0367 wM

Visual Basic -- Beginning

Jim Carter (972) 235-5968 h
Thomas Lewis (972) 994-6387
Jim Hart

Visual Basic -- Advanced

Thomas Lewis (972) 994-6387
Jim Carter (972) 235-5968 h

VRGN Internet Gaming

Al Alliman

Windows - Applications

Neal Berkowitz (972) 475-7463 h
..... (972) 475-3124 w
Deborah Bear (972) 475-7463 h
..... (972) 475-3124 w

WordPerfect / Windows

Cindy Adams (817) 481-1300 wM
Diane Bentley

many of us already use it or will soon move to it. Curiously, no rush to Win98 surfaced. Thanks to all who contributed to this lively session.

New Corel Magazine Format

Reading *Corel Magazine* is an easy way to get monthly training, tips and tricks for Corel graphics software. For the past four years of its existence, this mag has kept us readers up with current graphics trends and essential Corel software information. Whether we are graphic professionals or avid hobbyists, this source is a great bargain. Edited by a staff in Austin which is independent from Corel Corporation, the mag features how-to articles, examples and editorial opinions from various Corel product-user hotshots. Look for feature articles from Foster D. Coburn III, Chris Dickman, Rick Altman, David Huss, Steve Bain, Gary W. Priester and many more who also author Corel books and give Corel seminars nationwide. We can see them individually whenever they come to Dallas and continue with their guidance through the magazine too.

Editor Scott Campbell announced exciting changes for *Corel Magazine* in his June 1998 "Editor's Roll-up" The magazine will continue monthly publication, but the June 1998 issue will be the last monthly printed issue. Each month, however, the current issue will be avail-



able for download from either of the Web sites (www.corel-mag.com or www.corelmag.org). If you haven't viewed one of the downloadable issues or seen one of the magazine's Archive CD-ROMs, then you're in for a treat. All monthly issues will be printed, but they will be bundled in quarterly editions. All subscribers will also receive quarterly CD-ROM packages that include even more goodies. For example, instead of downloading the (20MB) DRAW 8 patch file, you will receive it on CD, without paying the \$9.95 shipping charge Corel charges. The CD edition also will provide useful shareware and freeware programs, video and animated instruction, and the DRAW and PAINT files used in the printed tutorials. Sounds like readers will come out way ahead on this one. Call 800-856-0062 to subscribe and tell them you are a Dallas Corel SIG member of North Texas PC Users Group.

unleash.com

Not only do Foster D. Coburn III and Peter McCormick write the best-selling *CorelDRAW*, *The Official Guide* book for each new version, they offer an excellent web site for Corel users. Expect graphics tips & tricks, downloadables, how-to's,

FAQ's, a store of their products, training registration and current news. Once you visit <http://www.unleash.com> you will bookmark it for regular visits. Our Dallas Corel web page has a link to their site, too.

Recent Programs at Dallas Corel SIG

- ❖ Jul/97 - CorelDREAM 3-D 7
- ❖ Aug/97 - WebMaster Suite, Lumiere and Click & Create
- ❖ Sep/97 - Presentations 8
- ❖ Oct/97 - Font Management and Acrobat
- ❖ Nov/97 - Customizing CorelDRAW 7
- ❖ Dec/97 - CorelDRAW 8 Launch by Corel Corp.
- ❖ Jan/98 - Roundtable Discussion
- ❖ Feb/98 - Inkjet Desktop Printing Papers by Red River Paper Co.
- ❖ Mar/98 - DRAW 8 Tips & Tricks
- ❖ Apr/98 - Web Page Design Tips & Trends
- ❖ May/98 - Member Showcase
- ❖ Jun/98 - Graphics Computer Trends Discussion

Marsha Drebelbis

DOS/OPERATING SYSTEMS SIG

Survive! Name of the game is CPU survival in this heat. That applies to the rest of the PC as well; high-speed hard disks, CD-ROM drives, monitors, DRAM, etc., etc., etc.

Surprised to see hard drives listed above? Don't be. In order to produce "faster" drives, vendors raised drive spindle speeds to 5400 RPM, 7200 RPM and faster which increases "waste" heat produced by the drive. Several rely on the PC chassis for "heat-sinking" and significantly higher than normal ambient temperatures may place them at risk of heat-induced failure.

If you are comfortable in street clothes in the area where your PC is located, it is probably OK. How-



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ever, if you are accustomed to tropical, equatorial temperatures in the 100°+ range, typically only wear shorts or a loin-cloth, your PC may be suffering where you are quite comfortable.

Heat can yield subtle errors

Heat effects may not result in a total failure, but may create episodic data losses, freezing and other very difficult to diagnose system errors. Best cure is prevention.

So why did I lead off with hardware? Trouble-shooting Windows 95 problems can be difficult enough as it is. I hope Windows 98 is more forgiving and helpful, but eliminating any source of error is always a good idea.

And, because Summer heat at levels we've been seeing in D/FW area for the last month may lead to crashes we may blame on the operating system, applications program or both rather than the true culprit. You can spend a lot of time trying to run down such errors.

Don't rely on wall-mounted thermostat readings. Room may appear to be OK, but if the PC case receives a lot of direct sunlight during the day, ambient temperatures inside the case may be much, much higher than healthy for the PC. Also check to make sure vents are clear of external obstruction and any filters in the PC cooling path are clean and unobstructed.

A last note on hardware: If you have one of the really fast x86 CPU's — 233 MHz or higher, peek in the case and make sure the heat-sink fan is operating properly. May also be a good idea, if you are brave, to make sure the heat-sink and fan assembly are securely fastened to the CPU socket and have a thin layer of heat-sink compound between the top of the CPU chip and the fan assembly. You would probably see smudges of gooey white stuff around the joint.

If there isn't any compound between the chip and fan assembly, I recommend the heat-sink compound sold by RadioShack in small tubes. It looks like the zinc oxide lifeguards use on their noses in the summer, and can mean the difference between an overheated CPU and safe operation in high ambient temperatures.

Back to operating systems and software

I know I did this *schtick* last year. It's worth repeating since many SIG members (although less than Microsoft had hoped) will be upgrading to Windows 98 and may encounter such problems. Since I haven't (and don't plan such acquisition) purchased Windows 98, I can only judge on past experience with Win95.

Even if users plan to stick with, or re-install DOS 6.22 and Win 3.11, it's a good idea to eliminate any possible hardware glitches before proceeding. This may be your last chance to do either. FAT16 definitely isn't a good choice with a 5+G hard drive.

SIG members who hate MS, but need Windows for their applications software, can strike a blow for "OS freedom" by going to Caldera's Web site, and downloading DOS 7.x to replace MS DOS 7.x. According to the ULUDMHAOM, Universalist League of United Devout Microsoft Haters And Other Malcontents, the Caldera version of DR DOS will run Windows 95 quite nicely. Also, you will earn the undying gratitude of Ray Noorda, Caldera CEO.

The rest of us have enough problems with the MS-DOS/Windows 9x interface and will do almost anything short of a Capitol felony to avoid further complications. That's the reason I dropped Symantec's Norton Utilities for Windows 9x.x. Trouble-shooting Windows 95 and Office 9x was enough of a problem without the potential additional problems that could be created by the utility package.

Come to the July 18 DOS SIG Meeting and tell us why I dropped Norton prematurely. I like Symantec and would be glad to hear about Norton users' success stories.

Reagan Andrews

INTERNET SIG - BEGINNING

We are always looking for feedback as to what our members want to see presented. This is an ongoing request. We encourage you to contact Doug Gorrie (dgorrie@on-ramp.net) with whatever thoughts you may have.

The ongoing purpose of the Beginning Internet SIG is to improve your understanding of the Internet. This includes such things as how to choose and connect to an Internet Service Provider (ISP), what software options are available, what hardware is needed, and how to decipher all those confusing acronyms and buzzwords. Although we have several "prepared" sessions and speakers, look for gen-



eral Q&A sessions (Question and Answer) periodically, too.

See you July 18th!!

Doug Gorrie, Tom O'Keefe & Kiff Barnes

INTERNET SIG - ADVANCED

Don't forget that we are always looking for additional assistants for the Beginning and Advanced Internet SIGs. Many of you probably have Internet and/or Web experience, or have access to speakers within your firm that could be persuaded to volunteer some time. Your assistance would be greatly appreciated.

The Advanced Internet SIG addresses topics and issues of interest to experienced Internet users, who are looking for more in-depth content. Sessions address such topics as IP addressing, Domain Name Services, Internet phone and teleconferencing capabilities and tools, basic Web page development, Web server options and features, network and data security, search engines, and more.

WHAT HAPPENS AT THE INTRODUCTION TO THE PC SIG?

Our classes will continue to be updated so that our members and guests may stay abreast with trends in PC hardware and software. Your suggestions are also welcome for adding new subject material.

We welcome John Randall as an assistant SIG leader. John's PC experience includes completion of several community college classes, experience with networks, and building his own PC.

Our program for June brought us "Neat & Necessary Software" at 9:00, "Multi-Media Software & Hardware" at 10:00, "Virus Protection & Utilities" at 12:00, and just for you at 1:00 P.M., we featured NTPCUG's favorite presentation



Sessions usually include time to address member's questions. Answers may come from SIG leaders, session presenters, or from other attendees in the audience.

We encourage you to join with us July 18th.

*Tom O'Keefe & Doug Gorrie,
with ongoing assistance by
Bruce DeGrasse*

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 listed months. Classes can be taken in any order suitable to the individual student's schedule. Printed notes are provided during classes.

July 18, 1998 - No Classes

by its favorite presenter - "PC's into the 21st Century."

Our SIG now has its schedule and class synopsis updated monthly on the Web. Pay a visit at www.ntpcug.org/sigs/intro_pc/ and keep informed.

July will be a break for this SIG and we will resume a full schedule in August with Introduction Classes #1 through #4. In July, see you with another SIG, at an auditorium presentation, AND the vendor area.

We can use another assistant group leader. Any volunteers? Please contact me at e-mail Spike@altinet.net or telephone 972-231-0730.

Harold (Spike) Smith

August 15, 1998

- ❖ 9:00 Class 1
Introduction to the PC
- ❖ 10:00 Class 2
A Lot About Files & Directories
- ❖ Noon Class 3
(DOS) Disk Operating Systems
- ❖ 1:00 Class 4
MS Windows

September 12, 1998

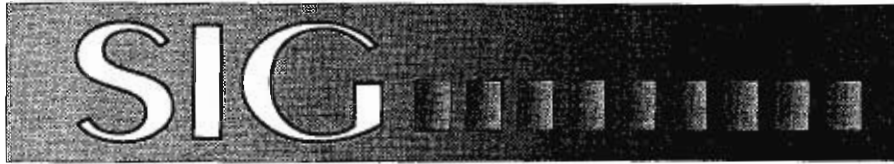
- ❖ 9:00 Class 5
PC Graphics
- ❖ 10:00 Class 6
Word Processing
- ❖ Noon Class 7
Spreadsheets and Databases
- ❖ 1:00 Class 8
Modems/Telecommunications

October 17, 1998*

- ❖ 9:00 Class 9
PC Hardware
- ❖ 10:00 Class 10
PC Printers
- ❖ Noon Class 11
Quicken/Money
- ❖ 1:00 Class 12
Networks and Such

November 14, 1998*

- ❖ 9:00 Class 13
Neat and Necessary Software
- ❖ 10:00 Class 14
Multimedia Software & Hardware
- ❖ Noon Class 15
Virus and Protection Programs
- ❖ 1:00 Class 16
PC's Into the 21st Century



* These dates are subject to change. Check your PC NEWS and/or the NTPCUG BBS for corrected dates before the meetings.

Spike Smith

JAVA SIG

We used this meeting to discuss the various IDEs available for Java. Kevin presented some slides outlining a comparison test done by *Java-World* magazine. We discussed the pro's and con's of each and took a small survey of who used what. There was a surprising spread of program users, with several people using J++, Visual Cafe, Jbuilder, and VisualAge. Kevin discussed his ongoing search for the best IDE and problems he had encountered with each. The consensus was that, although there are some that you probably want to avoid, it depends on what you are doing as to which one will be best for you.

We will be putting off our Java bean contest until the August meeting. If you have a bean that you wrote and would like to submit it, bring it to the meeting on a diskette or let Kevin know and he can make arrangements to access it beforehand.

Next month, Don will be discussing his experiences with the recently released Java Activator plugin that allows non JDK1.1 browsers to run 1.1 applets. He will show some example 1.1 applets and use the HTML converter to convert a normal html applet page to one that will call the plugin.

Don Benish

Microsoft Networking SIG

Next Meeting: July 18, 1998

General Q&A session. Also, Richard Miles and Gil Brand will give a brief review of the SIG's project for enhancing the NTPCUG Internet server and providing SIG-related Newsgroups. The project's approach will be a business-like managed project which could be used as a model for a small to medium-sized business in putting together a Web presence on the Internet. The SIG members will benefit from a practical application of Windows NT Server and Microsoft networking technologies in a fully integrated Internet networking environment. Members interested in what it takes to have a presence on the Internet and those interested in working on the SIG project are especially encouraged to attend.

Last Meeting: June 20, 1998

Paul Sloane presented a brief presentation on Peer-to-peer Networking of Win95 and/or WinNT workstations. Dave DeBoo, and Terry Brantley assisted with their laptop PCs in a demonstration of these concepts by connecting, through the SIG's Ethernet hub, to the SIG NT system and to each other.

Upcoming Schedule:

August - Round Three of the NT Monitoring Presentation (See February/March below)

Sep/Oct/Nov/Dec - Open for suggestions (email gbrand@home-mail.com)

Purpose of the SIG:

To technically showcase Microsoft Networking products, including

Windows NT Server, Windows NT Workstation, Systems Management Server, Exchange, SNA Server, Internet Information Server, and Windows 95.

The SIG highlights the capabilities and features of these products for all users, from individual end-users to corporate users, small and medium size businesses, and beginning to experienced administrators. We present the various options within Microsoft's networking products line and help members understand how they are positioned to solve their computing, connectivity and business needs. We help members understand how these products interoperate with other third party and legacy products.

The strength of an effective users group is the opportunity to share common experiences and learn from others. We try to end each meeting with an open question and answer session which can transition to other SIG meetings, the DFW Exchange vendor area, or the Infomart restaurant.

By staying informed of the activities of other NTPCUG Special Interest Group's (SIGs) and area Users Groups with common interests, we answer members' questions and help them identify other resources available in the Dallas/Fort Worth area.

Past Meetings:

May 1998 - Richard Miles presented an overview of Peer-to-Peer Networking (Win95, WinNT, Mixed 95/NT). While he covered a significant amount of ground, technical problems prevented completion of the presentation within the available time.

At the end of the meeting, we agreed to have Paul Sloane and a working group of 3 put together a peer level network of 2 WinNT Workstations and 2 Win95 PCs and

do a more interactive presentation for the next meeting in June.

April 11, 1998. Richard Miles and Gil Brand discussed the SIG's project for implementing the NTPCUG Internet server. The project's approach will be a business-like managed project which could be used as a model for a small to medium sized business in putting together a Web presence on the Internet. The SIG members will benefit from a practical application of Windows NT Server and Microsoft networking technologies in a fully integrated Internet networking environment. Members interested in what it takes to have a presence on the Internet and those interested in working on the SIG project are especially encouraged to volunteer.

Site-of-the-month: www.ntinternals.com

This site is arguably the best site on the Web for NT technical information and source code.

February and March 1998 - Gil Brand discussed Windows NT Server monitoring

Site-of-the-month: www.genevasoft.com

This site contains a full functional evaluation copy of Geneva Software's Windows NT AlertPage software for monitoring the Windows NT Event Log and paging defined systems administrators.

January 1998 - Richard Miles presented an overview of Win95/NT components/products and how they relate to each other. The reference handout will be particularly useful, especially if you (like me) have trouble remembering just which components are part of Site Server, Option Pack, or Enterprise Edition NT.

Site-of-the-month:
www.nmrc.org/files/nt



This site contains "The Unofficial NT Hack FAQ". It contains information on numerous NT security concerns. Last update was October 97.

December 1997 - There was no formal presentation this month. A general Q&A session was held.

Site-of-the-month: www.microsoft.com/windows95/info/kernel-toys.htm

Kernel Toys is a set of Win95 utility programs from the kernel support team at Microsoft. One of the best is the Windows Process Watcher, which displays the CPU utilization percentage for all programs that are running. Try it out!

November 1997- Windows NT v5.0 Features Preview

Mark Moore of Microsoft will be back to do his presentation on the upcoming features of Windows NT v5.0. Bring all of your questions and wish list items. Mark should have updated his presentation since our initial attempt to have him in October.

October 1997 - Dial-up Networking and RAS

Paul Sloane, one of our members, did an excellent step by step presentation on installation and

configuring Windows NT RAS (Remote Access Server) on a Windows NT server and a Windows 95 laptop client. Many thanks to Paul on the fine job he did for the SIG.

September 1997 - Windows NT v5.0 Features Preview

Mark Moore and we missed each other in the early morning fog. In-

stead of having his discussion of features of the upcoming Windows NT v5.0, we had a spirited question and answer session and general discussion. This was an unexpected boon for the attendees and we promised to have more such sessions.

Bruce Wynn, Richard Miles & Gil Brand

Microsoft Visual C++/MFC SIG

In June, we finished our study of COM by looking at some advanced issues involving containment/aggregation, marshalling, and threading models. In July, Rick Sivernell will build on our knowledge of COM by introducing us to the wonderful world of ATL.

ATL, the Active Template Library, was designed from the ground up to make developing COM objects in C++ easy and flexible. ATL is fairly minimal, which is its greatest strength. (The original version of the ATL shipped as four C++ header files, one of which was empty!) Using ATL, you can build fairly small, self-contained binaries without requiring any additional runtime DLLs. It also provides built-in support for many of the fundamental COM interfaces.

ATL is representative of the movement away from monolithic, single-tier applications and serves as a good substrate for developing the lightweight COM components required for modern distributed applications. ATL is less of a massive, MFC-like infrastructure than it is a modular, time-saving library that keeps thousands of programmers from implementing IUnknown and IClassFactory over and over again.

SIG

For serious COM developers and systems programmers, ATL provides an elegant, extensible architecture for building COM components in C++. Once you understand the architecture and move beyond the wizards, ATL can be as expressive and powerful as raw COM programming.

If you want to get a head start learning about ATL, check out World of ATL at <http://www.worldofatl.com/>

Wade Emmert
emmert@airmail.net

PRO SIG

It seems that more and more programmers are telecommuting these days. Over half of the SIG checked in by modem rather than come out in the summer heat. It was obvious from those that had video as well as voice that telecommuter's dress code had shrunk to a new low. Several video feeds had to be turned off.

Join us next month when we'll have a representative from a local men's store counsel us on how to dress if we ever need to go into the office.

Jim Hoisington

Visual Basic SIG - BEGINNING

The July 18, 1998 meeting of the Beginning Visual Basic SIG will feature a discussion of the features announced so far of Visual Basic 6.0 scheduled to be released on September 2, 1998. Bring your questions on both Visual Basic 5.0 and Visual Basic 6.0 to this meeting.

The July 1998 meeting was scheduled to be a presentation of the educational opportunities for Visual Basic here in the Metroplex. A

combination of events has made it impractical to make this presentation at this time. I hope to reschedule this presentation in the Fall.

Last month, Donnal (spelled correctly with two n's) Chick gave a very informative and interesting presentation on the creation of Help files for Visual Basic applications using the ForeHelp software package. Donn has been using ForeHelp for several years and shared his experiences with the SIG members.

August's meeting will be the semi-annual "For Beginners Only" session where we introduce Visual Basic to those with no (or very little) experience with Visual Basic. This presentation is updated and given each August and February to help beginning programmers get started in Visual Basic.

The major topics of the presentation 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 Visual Basic 5.0, and demonstration of the new integrated development environment (IDE) made a part of Visual Basic 5.0. Sample programs will be run on the NTPCUG computer projection system. Everyone is welcome to attend, of course. If you have a friend, relative, neighbor, etc. who would like to see what Visual Basic is about, this meeting would be an ideal one for them to attend. This would be a great opportunity for you to introduce the NTPCUG to a potential new member.

If you have some experiences with Visual Basic that you would like to share with the SIG members, please contact me and I will make

the necessary arrangements. Give me a call at (972) 235-5968.

Bring your questions on Beginning Visual Basic to our meeting beginning at 8:00 AM on Saturday, July 18, 1998 at the Infomart. Check the projection screens in the vendor area on the first floor for the correct room assignments.

Jim Carter

Visual Basic SIG - ADVANCED Goal-Centered Design

How many of us have been put upon a new project and before we have done any preparation we are already coding up forms and modules? I admit when I first started working with Visual Basic, I was guilty of such practices. But I learned that doing it this way led to rewrites and hack approaches to solve coding problems. Then with more experience under my belt, I learned to use a "Goal-Centered Design" approach to identify the requirements of a project. This approach makes the developer find what the user's goals are and abstract them appropriately to an object design. When a user says "I need to be able to look up an invoice and find the billing information for the customer.", the new developer may be thinking "OK, I need to create a join between invoice id and the customer id and then populate a form that will use a data control..." It is easy for the new developer to get lost in his or her head trying to figure out the coding aspect instead of thinking in terms of having a customer object and invoice object and how can we describe them. The implementation will come later.

I have very briefly described this approach. If you are interested in finding out more about this approach, you can read Deborah Kurata's book, *Doing Objects in Microsoft Visual Basic 5.0* in which she describes her GUIDS (Goal-centered design, User-interface design, Implementation-centered design,

Data design, and Strategies) approach to object-based application development.

Step-by-Step Example of How To Query the Top N or N% Records in Visual Basic:

1. Start a new project in Visual Basic version 4.0+. Form1 is created by default.

2. Establish a reference to the Microsoft DAO 3.x Object Library using the Tools menu in Visual Basic 4.0 or the Project menu in Visual Basic 5.0.

3. Add a Command Button (Command1) to the form.

4. Add the following code to the click event for Command1:

```
Private Sub
  Command1_Click()

  Dim MyDB As Database,
  MyQuery As QueryDef,
  MySet As Recordset

  Dim Sql$, QueryDefName$,
  QueryDefName$ = "Top-
  Titles"

  Sql$ = "SELECT TOP 10
  Titles.* FROM Titles;"

  ' Open Database, and
  create querydef:

  Set MyDB = Work-
  spaces(0).OpenDat-
  abase("C:\VB\BIB-
  LIO.MDB")

  Set MyQuery =
  MyDB.CreateQuery-
  Def(QueryDefName$,
  Sql$)

  ' Create Recordset
  from query and load
  list with results:

  Set MySet = MyDB.Open-
  Recordset(Query-
  DefName$)

  MySet.MoveFirst

  While MySet.EOF = False
    debug.print MySet(0)
    MySet.MoveNext
```



```
Wend

' Clean up -- close
objects and remove
querydef:

MyDB.QueryDefs.Delete
QueryDefName$

MyQuery.Close

MySet.Close

MyDB.Close

Set MyQuery = Nothing
Set MySet = Nothing
Set MyDB = Nothing

End Sub
```

5. Run the program and press the Command1 button.

6. Change the line defining SQL\$ to be: Sql\$ = "SELECT TOP 10 PERCENT Titles.* FROM Titles;"

7. Run the program again, and note the difference in results.

Visual Basic 6.0

Excitement is building about the upcoming release of Visual Basic 6.0. I thought I would just bring up five new features here to let you chew on:

1. ADO Data Control - A new OLEDB-aware data source control that functions much like the intrinsic Data and Remote Data controls, in that it allows you to create a database application with minimum code.

2. Project Start Options - New F5 options allow you to choose where to run a component for debugging purposes - for example, running a control in a browser instead of in a Visual Basic form.

3. New String Functions - Filter, FormatCurrency, Format-DateTime, FormatNumber, Format-

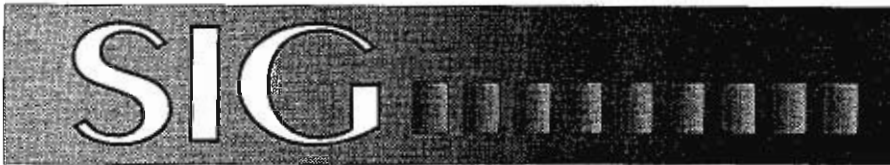
Percent, InstrRev, Join, Month-Name, Replace, Round, Split, StrReverse, WeekdayName.

4. Setup Wizard Enhancements - The Package and Deployment Wizard (formerly the Setup Wizard) lets you deploy your .cab file to a Web server, network share, or other folder. The new wizard incorporates data access support for ADO, OLE DB, RDO, ODBC, and DAO as well as support for the new IIS and DHTML applications. It also features better control over Start menu groups and icons for your setup program. The new wizard can be run from within Visual Basic as an add-in, or via the command line, as part of a batch process.

5. Microsoft Transaction Server Support - The new MTSTransactionMode property allows you to specify the transactional behavior of a class used in conjunction with the Microsoft Transaction Server.

DevDays 98

DevDays 98, a global event hosted locally in more than 120 cities worldwide, will be held here on Wed, Sept 2nd. This year's event will feature a keynote by Bill Gates and in-depth product sessions on Visual Studio 6.0 and its component products: the Visual Basic development system 6.0, the Visual C++ development system 6.0, the Visual FoxPro database development system 6.0, the Visual InterDev Web development system 6.0, the Visual J++ development system for Java 6.0, as well as Microsoft Office programmability, featuring Visual Basic for Applications. DevDays 98 is expected to be the largest developer event ever, exceeding last year's worldwide record attendance of 64,000. If you are planning to go or want to go, I may have a way for you to get in free. Details at the meeting.



The VB Laboratory

If you did not make it to the last meeting, you may be unaware of the VB Laboratory. The VB Laboratory is a Web site designed for our SIG group. You can go there to download the PowerPoint presentations, or choose Web links to sites that have been discussed during our meetings and a whole lot more. Check in often for new material and any new information I find about VB 6.0. Please send me an e-mail on any ideas about the Web site. You can get to it at www.micrografx.com/vblab.

Next Time

At July's meeting, we will finish our discussion on "Database Access with Objects". Also, we will be giving away two copies of "Professional MTS & MSMQ Programming with VB and ASP" from Wrox Press. We will be giving out demo CD's from Greentree Software and Sheridan Software. Remember, you must be a member to participate in our giveaways. See you there.

Thomas Lewis
aliensite@msn.com

WORDPERFECT/WINDOWS SIG

This month we are venturing into an area I don't normally get into. This month we are going to look at "M's" (Macros)! Yes, I am beginning to see the light in their usefulness, but if you are looking for a technical session -- not going to happen. Just some basics, but it is a start. I am going to show you a few of the macros that ship with WP 8, as well as show you how easy it is to actually do one! A very simple one, but still . . . So come and be amazed.

Cindy Adams

Tip of the Month – Spell Checking Fixes

If you use Spell Check, at least once you have added an incorrect word to your dictionary. If you still avoid using that word in your writings because you know Spell Check won't catch it (because you approved the misspelling when you added it), here's how to remove it from the dictionary.

There are three initial dictionaries in each version:

WP8 — WP7— WP6

Document – Word List - Document Dictionary

QuickCorrect & User Word List – Supplementary Dictionary

Main Word List – Main Dictionary

The Document Word List (Document Dictionary) is stored with the document. Any words added to it apply only to that single document. Any word for which you select "Skip All" is added to this list. You can edit this list.

The QuickCorrect & User Word List (Supplementary Dictionary) in-



cludes words you "Add" during spell-check, as well as words you add in QuickCorrect. This is identified in Spell Check as: Wt80us.uwl in WP8; Wt61us.uwl in WP7; and, Wtspelus.sup in WP6. You can edit this list.

The Main Word List (Main Dictionary) includes commonly used words. You cannot edit this list.

To Remove a Word Added in Error in WP8:

Tools, Spell Check, Options, User Word Lists

Highlight the User Word List to be edited, Edit

At Word/Phrase text box: type the word to be deleted

Delete Entry

To Remove a Word Added in Error in WP7:

Tools, Spell Check, Customize, User Word Lists

Highlight the dictionary to be edited, Edit

At Word/Phrase text box: type the word to be deleted

Delete Entry

To Remove a Word Added in Error in WP6:

Tools, Spell Check, Dictionaries, Supplementary

Highlight the dictionary to be edited, Edit

At Keywords: select the word to be deleted

Delete...

Diane Bentley

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.

Please try to resolve your problem by reading the manual and any on-line help BEFORE calling.

SUBJECT	HELPER	PHONE	DAYS/HOURS	SUBJECT	HELPER	PHONE	DAYS/HOURS
Access				Excel			
	Ram Bhandari	(972)243-4056 h	M-F 1300-1700		Warrington Williams.....	(214)348-6869	M-F 1800-2100 S&S 0900-2100
Assembly Language				Hardware Help			
	Frank Cavallito	(972)423-9221	7 1800-2200		Charles Miller.....	(903)938-4220(*)	7 1900-2400
	Glynn Brooks.....	(972)578-8737	M-F 1700-2200	Internet - General			
BASIC					Erik Leaseburg	(817)265-7550(m)	7 2000-2200
Beginner Problems					David Martin	(972)930-0283	M-F 1900-2200
	Shirley Hudgens	(903)432-9780	7 0900-2000	Internet - Telnet, FTP, NetScape, Web Explorer (OS/2)			
Brother's Keeper					Bob Wilson	(972)517-1434	M-F 1900-2200 S-S 1000-2200
	Neil Sunderland.....	(972)272-2869	7 0900-2200	JavaScript			
C++ (the language)					Don Benish	(972)705-9512	M-F 1900-2200 S-S 0900-2100
	Bob Adams.....	(214)328-1455	M-Sa 0900-1900	LANs — Novell			
	Howard Harkness.....	(972)492-1508	7 1000-2100		Joseph Beasley	(972)225-8752	7 0800-2400
CA Clipper				— Lantastic			
	Richard Mitchell.....	(972)625-9130M	M-F 1900-2100 SS 0900-2300		Joseph Beasley	(214)410-3818	7 0900-2200
CorelDraw				Managing Your Money			
	Linda Hume	(817)472-7555	M-F 1900-2200 S-S 1300-2200		Glynn Brooks.....	(972)578-8737	M-F 1700-2200
Batch Files				Modems			
	Charles Miller	(903)938-4220(*)	7 1900-2400		Erik Leaseburg	(817)265-7550(m)	7 2000-2200
Borland C++				MathCAD			
	Bob Adams.....	(214)328-1455	M-Sa 0900-1900		Bob Adams	(214)328-1455	M-Sa 0900-1900
	Howard Harkness.....	(972)492-1508	7 1000-2100	Norton Utilities			
Borland Turbo C					John Dyer	(972)790-3311	M-Sa 0800-2200
	John Keohane	(972)690-8092	7 1900-2100	OS/2			
CompuServe					Larry Truesdale	(972)442-7074	7 1000-2200
	Bob Adams.....	(214)328-1455	M-Sa 0900-1900	PC Tools/Win			
DOS					Glynn Brooks.....	(972)578-8737	M-F 1700-2200
	Bob Russell	(972)422-4269	7 1900-2200	Paradox			
	Erik Leaseburg	(817)265-7550(m)	7 2000-2200		Fred Williams.....	(972)492-1315	7 1300-2100
DR DOS							
	Ralph Beaver	(817)336-0570	M-F 0800-1700				
	(817)624-9530	SS 0900-2100				



North Texas PC Users Group
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Dallas, Texas 75370-3449

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17.7

North Texas PC Users Group

*Next Meeting:
18 July 1998*

