



# Brevard Users Group



November 2003

## Prez Sez

By George Rymer

Members, shortly after you receive this, hopefully you will sit down with friends and family and give thanks for all your blessings and the fact that you have the privilege of living in this great land. You should also give thanks for all the Military that have fought and died over the last 200 years so you can enjoy this freedom. Give thanks to those who are willfully serving now in Afghanistan and Iraq and whom I am sure would much rather be here to share the Thanksgiving Dinner and family, rather than dodging bullets and eating MRE's. Say a prayer for all our young men and women that are serving so faithfully.

Next month, we will finalize the ballot for the election of officers for 2004. Please give a great deal of thought to who you would like to have lead you in the coming year. Pick some one who will be conscientious and keep the club going. On December 17th, we will have our Christmas Party. Please make plans to attend. We are planning to make this as an old fashioned pot luck supper. We have a list of desired dishes we would like for the members to bring. A number of people have signed up already, but there is still a lot to go. The list will be available at the weekly meetings, so please sign up. Let's make this years party better than the last. Soft drinks and coffee will be furnished by the club.

Happy Thanksgiving ..... George

## From the Webmaster:

By Eric Arnold BUG member

### How To Use A Search Engine

Using a search engine effectively sounds a lot easier than it actually often is. With so many pages out in cyberspace, common searches regularly yield millions of results. The good news is that as the net grows, so to do search engines' functions and accuracy, helping online searchers to get to the most appropriate information quickly. In this article, we summarize some of the most useful ideas and tips for effective search engine use.

In general...

### Choose Your Keywords Carefully

'Keywords' are the words you type into the search box on the engine's homepage. For example, net users looking for books will often simply type books and hit 'return'. It's a much better idea to decide beforehand exactly what \*type\* of book you might be interested in. In other words, poetry books or religious books are examples of better keyword choices, because they will return more accurate and useful results.

More Keywords = More Accuracy

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### THE NEXT MEETING OF THE BREVARD USERS GROUP WILL BE ON

*Wednesday, November 19th, 2003  
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*IN  
the Melbourne Library  
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Mary  
Alice  
Grant  
Secretary

## October Monthly Meeting

The Secretary was absent from the meeting ... along with a lot of other members. We had a very poor showing, it may have been because of the change in location. However, we will be back to the Melbourne Library on the third Wednesday's for the next 10 months.

Steve Pantano of Brevard Community College (BCC) gave an informative presentation about the courses offered by BCC to Seniors, in the "Not for Credit" computer training department. They will teach just about anything you want to learn, and it is relatively cheap compared to what you would have to pay for an accredited course. The schedule for the coming classes will be published in the Florida Today newspaper in November.

Three members were picked for the Nominating Committee, Larry French, Ed McEwen, and Jack Nash. **A President, Vice President, Treasurer, and Secretary are needed.** Contact any of the above to submit your or someone else's name. Now is the time to step up and contribute to the group.

The Christmas Party will be held on the 17th of December, at the Fee Ave. Library. There will be a list of suggested dishes for members to bring at all of the next meetings. This will avoid too many of the same dishes, the club will supply coffee and soda.

... and the winners are:

Bert Kuschner won the Visio CD,  
Whatshisname won the Windows 2000 Pro package.  
Sorry, but nobody remembers who the winner was.

This months prizes were donated by Tom Wojnar our First Member at Large. Thank you, Tom.

Editor



## Webmaster .. Continued from Page 1

Typing poetry books author Auden will limit results to only pages that contain all of those words. The more keywords, the more accurate and streamlined the results will be.

### Be Specific!

Typing keywords like Paris or London will produce millions of results, the vast majority of which are likely to be unsuitable or irrelevant to your search. Instead, follow the suggestions above and use a variety of well-chosen keywords.

### Try Directories

Search engines also have directories, organized alphabetically, by category and region. Using directories will help bring focus to your search query. For example, by looking up 'French', you will find a wide range of options to follow up on - from cuisine and wine to language learning. A good place to start is the Google Directory.

### Including or Excluding Certain Keywords

You can choose to include or exclude certain terms from your search, by using the '+' or '-' signs with your text. For example, vacation disneyland -paris will bring back results for Disneyland in Florida, but not for Disneyland, Paris.

### Whole Phrase Searches

If you want to search for a part or whole phrase, such as how to use a search engine, put the text in quotations: "how to use a search engine".

### Site Only Searches

To search within a particular site, type 'site:' followed by the URL of the website. If you want to search for a keyword within a particular site, type the word and then the 'site:' with the site's address. Example: iraq site:www.cnn.com.

### Searching in Other Languages

If you want to search in another language, Yahoo and Google - currently the most popular search engines - both have alternative language-specific search pages for a variety of different languages. Try 'fr' or 'de' (instead of 'com') at the end of a search engine address to bring up French and German language versions. Google also provides an excellent website or page translation tool at [http://www.google.com/language\\_tools](http://www.google.com/language_tools)



# Treasurer's Report

By Ted Glaser



## Expense

Newsletter	
Printing	\$ 233.78
Mailing	\$ 55.00
Office Supplies	\$ 71.51
Postoffice	
Stamps	\$ 37.00
	<b>\$ 397.29</b>

## Income

Dues	\$ 125.00
Interest	\$ 2.12
	<b>\$ 127.12</b>

## Assets:

Checking Acc't	\$ 510.47
Savings Acc't	\$ 2,463.00
Petty Cash	\$ 200.00
<b>Total</b>	<b>\$ 3173.47</b>

## Renewals:

- Buchanan, A - #1023
- Frasca, R - #0253
- Jacobs, C - #1190
- Maffley, R - #1086
- Nash, J - #0845
- Standiford, B - 1026

## New members:

- Gundelach, W - #1219
- Hertzburg, C - #1218

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## **IRFANVIEW**

**IT'S FREE AND IT WORKS!**

*Review by Ken Larrabee*

Wouldn't it be wonderful to have a good program that would show almost all variations of picture files? Maybe even to have an ability to play the various sound files? Possibly you could stretch your imagination to include the different video files too? Most of us would suppose that any software capable of this series of functions would be incredibly expensive.

**WRONG - IT'S FREE!** IRFANVIEW, or Iview as the program is known, is capable of so many different things that it is difficult to catalog them all. In the next few paragraphs, I'll try to cover some of the great capabilities of the program.

The program will read and display or operate over 60 different types of files in a seamless manner by just stepping through them. Although plug-in's are needed for some file types, the plug-ins are all available at the sites that the operating program is downloaded from. Special file types are handled with ease such as Photoshop's PSD format and PSP from Paintshop Pro along with Sun Raster RAS and Kodak PCD and KDC files. Add to this the video files from Quicktime, MOV and the WMV, AVI, MPG and sound from AIF, WAV, MP3 and more. Every time someone adds another file type, IRFANVIEW adds it to the program so the read remains easy and steady.

Just viewing multi-file types in sequence is a feat in itself when you consider the number of file types there are, but add to this the ability to resize or resample any file in pixels or inches! The software advertises lossless rotation of JPG files and allows rotation and flip of picture file types. It is possible to swap colors as in RGB to BGR for "interesting" effects and color depth can be adjusted as you wish. Pictures can be converted to grayscale or switched to pure black and white as you choose with the press of a button.

It is possible to use multiple file types to create a Thumbnail/Preview section and convert to slideshow output. Slideshows can be converted to EXE and SCR files as well as burned to CD. The pictures in the slideshow can be edited prior to installation by use of

IRFANVIEW's cut/crop function, redeye elimination, and all sorts of Photoshop types of effects for Sharpen, Blur, 3D, oil paint, edge detect and many, many more! Files can be added from any source including scanners. Not only can you input files from a scanner, but it's possible to BATCH scan! That means that the filenames will be updated as you store them and input by name and number. You can even add written data on the picture so that slldehows and files are identified as viewed. Panoramic views can be created and stored quite easily and can also have type placed on the pictures included in slideshows!

Picture files can be easily viewed in this software and the SPACE key and BACKSPACE key are used to advance or retract the pictures. No picture is ever too big or too small for the screen as in many viewer types that show the file in native format where pictures that have more pixels than your screen are shown in various sized parts and force you to scroll around to see the picture. With IRFANVIEW, a tap on the ENTER key will assure that each file is sized to the screen as it is viewed. Native mode is returned with another tap of the ENTER key, but using the + and - keys on your keypad will increase or decrease the size of the viewed picture. Naturally, all of this is done without any modification of the original file or file type. There is also a capability to create and install a wallpaper screen centered, tiled or stretched. Files can be input as one file type and stored as another without modification of the original file. The software will also play motion GIFs!

For those of us with digital cameras, there is a BATCH CONVERT mode that is extremely helpful. Unless you have a special camera, most all store pictures and move them to your computer as DSC000X or some "standard" file type and numbering system. With IRFANVIEW, it is possible to batch-convert those files to another name. Just show the program which pictures you want the name changed on and give it the new name. Once you press the start function the files will be transferred and renamed and renumbered as you desired! For those of you who saw my demo of the excellent Photoshop Album software, you may have noticed that all my files for the demo were named San Diego with a number. All conversion was done courtesy of IRFANVIEW.

*Continued on Page 6*

# Opening Email Attachments Using Outlook Express 6.0

submitted by Carolyn Aurand and Betty Beatty

Carolyn Aurand, a new SCUG just shared some very useful information with me. We decided to share it with you.

Lately my husband, Ed, has not been able to open any email attachments, ditto for Carolyn. I have not had any problem. I just sent an email to SCUG member Dane Neiderman. He could not open it. He emailed telling me he could not open it and asked me to email it to a different email address he has on one of his other computers. I did and he could open it. What gives?

Apparently after you install Internet Explorer 6 Service Pack 1 (SP1) or Windows XP SP1 (both of which include Outlook Express 6 SP1), access to some of your email attachments in Outlook Express may be removed. By default, the "Do not allow attachments to be saved or opened that could potentially be a virus option" is enabled in Outlook Express 6 SP1. My husband, Ed, uses Outlook Express 6.0. Dane uses Outlook Express 6.0 on the computer that could not open the attachment. He could open the attachment on his other computer because he uses Eudora for his email program on that computer. I haven't had any problem opening attachments because I am using Outlook, not Outlook Express.

Here's the fix Carolyn sent me (she found it on Gallatin River Communications website — on a part that is accessible to Gallatin subscribers, you can also read about it in Microsoft Knowledge Base Article - 329570 at <http://support.microsoft.com/?kbid=329570>.)

Answer: Microsoft has added a filtering feature into Version 6.0 of their Outlook Express email software. The purpose of this feature is to block any potentially infected attachments from being opened by email recipients. It's a great idea. The challenge, however, is that it appears that ALL attachments are blocked, no matter what the content is. The feature is a default setting on Version 6.0, so you'll need to go in manually to change the setting if you want to be able to open attachments. To remove the default setting so that you are able to open attachments, follow these easy steps:

- 1) Open Outlook Express
- 2) Click your cursor arrow on "Tools" in the menu bar, and select "Options."
- 3) When the "Options" window opens, click your cursor arrow on the Security tab.
- 4) A checked box will appear that says "Do not allow attachments to be saved or opened that could potentially be a virus." Click your cursor arrow on the box to uncheck it.
- 5) Click "OK" to save and then close Outlook Express. When you reopen Outlook Express, you should now be able to open incoming email attachments. Remember to scan all attachments with your virus scanning software before opening them, even if the attachment is from a friend.

*The preceding article appeared in the April 2003 issue of the Newsletter of the Sauk Computer User Group of Sterling, Illinois.*



## ***Irfanview Continued from Page 5***

Another very valuable batch conversion is the ability to select a number of files and change the level of density (file size) in a batch mode. If your camera has a high density, the file size will be very large, but if you wish to send those out on the Web or via an email (there is even an e-mail function in the software), the file size can be considerably reduced without significant loss of picture quality. By selecting the files to be converted, it is possible to select the level of conversion so that minimum size is still controlled. A press of the "button" converts all of the selected files in batch mode.

In this small article I have covered a large number of capabilities of the IRFANVIEW software, but by no means have I covered ALL of them. Add to these that there are NO DLLs and no registry changes are made without permission of the owner! I strongly recommend the software and use it often. After all, what can you lose since there is no cost? Get it and try it, you'll be happy you did. It's available on TUCOWS and CNET as well as a host of others. Here is a URL:

**[http://www.irfanview.com/main\\_download\\_engl.htm](http://www.irfanview.com/main_download_engl.htm)**

Be careful to download the version appropriate for the version of Windows installed.

Reprinted from the CFCS NL



# Printable Characters-

## How Many ?

By Major Keary

From time to time one sees references to “the standard visible characters”, or “printable characters”, which refers to the keyboard characters that produce something visible on the screen and which excludes the characters produced by any multi-key combinations such as *alt* + keypad *nnn* in Microsoft Windows applications.

*Real* ASCII is seven-bit, which produces 27 (128) code positions. However, in *computerspeak* we begin counting at 0 (zero), so the range is 0-127 (00-7Fh). The thirty-two ASCII code positions between decimal 00 (00h) and 31 (1Fh) are reserved for control characters (the mysterious ACK, BS, and so on) and 127 (7Fh) is conventionally ‘blank’ in ISO character sets. In seven-bit ASCII (ISO 646) it is shown as DEL, but that is not the delete key - DEL is one of the original telegraphic control codes. It is common for position 7Fh to be used for a character in TrueType and Adobe Type 1 fonts.

It is important to distinguish between *real* ASCII and eight-bit ASCII, which extends the available code positions to 256. The characters with decimal values between 128 (80h) and 255 (FFh) (remember, we are starting the count at zero) require special key strokes - in Windows *alt* + keypad *nnn*. Seven-bit ASCII was originally specified in ANSI X3.4 and was soon after adopted in ISO 646-1973. Eight-bit ‘ASCII’ was a later development, but that’s another story.

The printable characters are used in what is called ‘plain text’ or ASCII and are used (but not necessarily all of them) in writing program source code. There are ninety-five printable, or visible, characters: a-z, A-Z, 0-9, and the thirty-two symbols: !”#\$%&’()\*+,-./ :;<=>?@[ \ ] ^ \_ ‘ { | } ~ and space.

That adds up to ninety-five characters, but the figure is sometimes given as ninety-three. There are two reasons why some people arrive at the lower

figure. One is that they forget the *space* character; it might not be visible in the sense that it has no glyph, but its presence can be observed. It is an important character in programming and without the *space* plain text would be very difficult to read.

The other reason is one of arithmetic; a simple subtraction: 126-33 produces the erroneous ninety-three (code position 126 (7Eh) is where the characters stop in real ASCII). They forget that the count starts at zero, but in real-world arithmetic we start counting at 1.

If we adjust the range to fit every-day arithmetic it would be 1-128, and the range of printable characters would lie between 33 (space) and 127 (~). The subtraction should be 127-32=95. Not sure about that? You can always type out the keyboard characters and count them.

The space can cause confusion in code examples, especially if one falls at a line break. One method used to overcome that is the use of a special symbol to represent the space. In his books on TeX Donald Knuth uses the square cup to represent a space (*Unicode* 2294, and keyed to *t* in the Lucida Math Extension character set).

One of the features of the ‘standard’ printable characters is that at least thirty-seven national variants of ISO 646 exist. Some countries have more than one standard: the U.K. and Switzerland each have three. The variations occur in the twelve symbols # \$ @ [ \ ] ^ ‘ { | } ~ with the most common substitutions being £ for #, ₤ for \$, and § for @.

It may all seem a bit esoteric, useful for trivial pursuit and little else. However, for a number of purposes, such as programming and writing scripts (such as *JavaScript*) standard plain text is essential.

*Reprinted from the July 2003 issue of PC Update, the magazine of Melbourne PC User Group, Australia*



## Better Backups

By Steve Bass,  
Pasadena IBM Users Group

After using tapes and zip drives for back ups, I finally decided to just back up to another hard drive. To simplify the process, I installed two mobile mounts and connected the IDE cables so that the upper mount or drawer is an IDE1 master and the lower drawer is an IDE2 Master. I purchased two drives of the same capacity. Both are jumpered as masters. The original is in the upper drawer, and the backup will be placed in the lower drawer.

I use "Drive Copy" which with installation generates a 3.5" floppy "Drive Copy" boot disk. The boot disk is used to start the copy process. Make certain that your 2 hard drives are labeled such that you will copy from the original to the backup, and not from the backup to the original.

Remove the backup and set it aside for that sad day when the original fails or is infected with a virus. The reason that I like this approach is that if the original drive fails, I can just power down and remove it from the drawer and insert and boot the backup, which is already jumpered as a master drive, and you are immediately up and running. If you were using a tape you have the problem of trying to salvage the original from the tape, hoping that it works. The same is true of Zip disks.

I will usually start the backup when I go to bed and it is done in the morning. The cost of a 2nd hard drive is probably cheaper than a tape drive or Zip drive and the cost of the tapes and zip disks just add even more cost.

*Steve Bass is a Contributing Editor with PC World and runs the Pasadena IBM Users Group. He's also a founding member of APCUG. Check PCW's current edition at [www.pcworld.com/resource/toc/index.asp](http://www.pcworld.com/resource/toc/index.asp) and sign up for the Steve Bass online newsletter at:*

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## Disk Investigator T

Robert A Lewis, DMA

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<http://www.theabsolute.net/sware/clndisk.html>

*Robert Lewis is a member of The Dayton Micro-computer Association. There is no restriction against any non-profit group using the article as long as it is kept in context, with proper credit given to the author. This article is brought to you by the Editorial Committee of the Association of Personal Computer User Groups*



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## Serial ATA Hard Drives

by Brian K. Lewis, Ph.D.\*

Member of the Sarasota Personal Computer Users Group, Inc.

There is a significant change coming to hard drive technology- that's the serial ATA interface. In reality, it's already here and is being incorporated into new computers. The second specification for this interface was released in October 2002 and there are serial ATA drives on the market now. So what does this mean to the average computer user? Well, how about the words - Newer? Faster? Better? They do seem to be the primary slogan of the computer industry. Since you will be seeing these drives and their ads quite soon, let's take a look at this new technology.

First, let's clarify some of the terminology. You'll sometime see drives referred to as EIDE which stands for Enhanced Integrated Device Electronics. The IDE or EIDE term can be applied to any drive where the controller is located on the drive rather than on the motherboard. Both of these terms are used interchangeably with ATA. Technically speaking, the ATA is the interface standard and the IDE refers to the controller electronics on the drive. ATAPI is another term that is used in referring to CD-ROM, CD-RW, DVD and ZIP drives. It means ATA packet interface. Hard disks move data in the form of sectors or logical blocks and CD drives use data packets. In order to move CD drives from the more expensive SCSI interface, the ATA standard was modified to work with CD drives.

Ever since it was first released, the ATA specification has been undergoing constant change. One thing that has been consistent has been the drive size barrier of 137 GB. So the major improvements have been in bandwidth or data transmission speed. The original specification had a speed of 3.3 MB/s that has been increased to 133 MB/s in the ATA133 specification. However, this, along with the 137 GB size barrier seems to be the end for the parallel form of the ATA interface.

If you have ever looked inside your computer case and tried to identify the various components you would have seen two or more flat "ribbon" cables. These cables connect the hard drives, CD-ROM drives and/or floppy drives to the motherboard. All the

information read/written to these drives has to travel through these cables. Depending on the age of your system the hard drive cables will have either 40 or 80 wires. The 80 wire cables are used with the newer ATA/100 and ATA/133 drives. The ATA refers to "Advanced Technology Attachment" and the numbers refer to the maximum data transfer speed. This speed is in megabytes per second (MB/s).

The transmission of data through these ribbon cables occurs in parallel mode. This means that transmission can occur over multiple wires at the same time. However, as transmission speed increases the high frequency signals develop problems such as cross-talk and signal reflection, among others. ATA drives are self-terminating. This is to reduce the problem with signal reflection. However, when a single drive is attached to the middle connector on the two-drive cable, reflection problems increase. When the change was made from 40 wire to 80 wire cables, even with the modified connector, problems increased. The smaller wire diameters increased the electrical resistance of the system and limited cable length to 18 inches. Folds in these ribbon cables also increase the probability of electrical problems and signal degradation. And, if the cable is crimped, transmission wires can be easily broken.

So why would parallel transmission be replaced by a serial method? After all, the most common serial ports on computers (the COM ports) are being replaced because they are too slow. However, their replacements are USB and FireWire, both of which are based on serial technology. Believe it or not, the fastest computer memory, RDRAM, is serial based, as is the networking protocol, Ethernet. Here we are talking about data transmission rates from 100-460 MB/s. In addition to the possible increases in speed, there is a great reduction in the number of wires required for the connection. USB 2.0 uses only four wires but has a maximum data capacity of 460 MB/s. So the design of the new Serial ATA (SATA) hard drives has an entirely new connector to the drive and the motherboard.

The SATA connector has only 7 pins compared to the ribbon cable connection of 40 or 80 pins. In addition, the maximum cable length is 1-meter (39.37 inches) compared to the 18 inch maximum for parallel ATA. The cable is keyed to fit the motherboard and

*Continued o Page 10*

### ***Serial ATA Continued from Page 9***

drive so there can be no error in the way it is connected. Data transmission requires only a 250-mV connection compared to the 5V used in parallel ATA. The reduction in the number of wires also allows an increase in signal wire diameter, which reduces resistance and impedance. This increases the speed of signal propagation.

One of the interesting changes in the design of the SATA system is the new power cable. Instead of the familiar 4 conductor power providing 5 and 12 Vdc, the new connector has 15 pins. This change allows an option of a third voltage, 3.3 V. Another key item is that there is a variation in the length of the connector pins. The ground pins are longer and will always connect first. This allows the devices to be electrostatically grounded before data or power connections are made. Thus, SATA drives can be safely hot-plugged just as is done with USB peripherals. Once a power connection is established, the drive will be initialized and establish a handshake with the host system. The drives are fully software compatible with current operating system software (Win9X, WinME, Win2K, WinXP, Linux, etc.) Official support for SATA hot-plugability probably won't appear in Windows before 2004. However, the backward compatibility of the SATA standard ensures the compatibility with current software.

So we have several advantages in converting to SATA drives: (1) complete compliance with the ATA protocol which means software compatibility; (2) improved data transmission with fewer errors resulting from fewer wires and reduced voltage; (3) improved air-flow within the case resulting from the smaller diameter cables; (4) hot-plug capability; and (5) an eventual increase to a 600 MB/s transmission speed. The current specification is for 150 MB/s with an increase to 300 MB/s expected during 2004. However, since current drives designed for the ATA133 specification don't come close to that in actual data transmission, initially, there won't be much of a real increase with SATA. The major problem is the speed of the PCI bus. A RAID array is the only current way of achieving speeds close to the maximum of the ATA specification.

So what are the shortcomings of this new technology? First, SATA allows only one device to be connected to a cable. That means if you currently have

four ATA (or IDE) devices in your computer, you would need a separate cable and a separate motherboard connection for each of them. Currently, the motherboard needs only two connections as the ATA specification allows two devices for each connection. The SATA connection also eliminates the need for master/slave jumpers on the devices. Because the connections on the new drives are totally different from current drives, you can not connect to your current hardware. Manufacturers such as Adaptec and Promise, among others, have produced adapter cards that can be installed in a PCI slot. These can be connected to the new SATA drives and will co-exist with older ATA drives. Such adapters will be needed until new chipsets and motherboards are available which can take direct advantage of the SATA technology.

Second, there will be no real performance gains initially. The limitations of the PCI bus will restrict performance of the SATA drives to that of ATA133 drives. Until, the next generation PCI bus (PCI express?) arrives, there will be no real speed gains. However, the reliability of data transmission should increase with the conversion to SATA. This should reduce read/write problems and may show some gains by reducing data errors.

There is no real rush to replace your current hard drives with SATA drives. However, when you purchase your next computer, look into getting one with this newer technology. Overall, it looks like SATA will provide some definite benefits with the gains in transmission speed a promise for the future.

*Dr. Lewis is a former University & Medical School professor. He has been working with personal computers for more than thirty years and can be reached via e-mail at: [bwsail@yahoo.com](mailto:bwsail@yahoo.com) or voice mail at 941/925-3047. Copyright 2003. This article is from the February 2003 issue of the Sarasota PC Monitor, the official monthly publication of the Sarasota Personal Computer Users Group, Inc., P.O. Box 15889, Sarasota, FL 34277-1889. Permission to reprint is granted only to other non-profit computer user groups, provided proper credit is given to the author and our publication. We would appreciate receiving a copy of the publication the reprint appears in, please send to above address, Attn: Editor. For further information about our group, email: [admin@spcug.org](mailto:admin@spcug.org)/ Web: <http://www.spcug.org/>*



# Replacement Hard Drive

By Jim Townsend *BUG member*

I received a 80GB hard drive from Maxtor a week or so ago to replace one that died, I set it on the shelf until I had time to install it. After a couple of weeks I decided it was time to make sure it was a workable drive. Usually when I install a new hard drive I partition and format the drive then do a fresh install of the OS and all my programs, this way I leave all the problems and accumulated junk from the old drive behind. But this takes a couple of days to complete and I have to transfer my data files across the network then replace the drive and transfer them back to the new drive. This time I decided to try Maxtor's drive copy procedure.

## Background information

My main drive is a 30GB with 5 - 6 GB partitions.

**C:** has only the OS (W98se)

**D:** the program files

**E:** a copy of the W98se setup files, Windows Swap File, and room for program files when needed.

**F:** Has all my data files and downloaded files ( this drive is always filling up and I have to copy them to a CD, then delete and start again).

**G:** I keep my image files on this partition and moved the MyDocs folder here.

I have an Abit KT7 Raid motherboard, with a CD-ROM, CD-RW, and internal NEC Zip drive, this leaves only one opening for a hard drive on the IDE side of the board. But I have room for 4 more drives on the RAID side running at 100 Mhz.

The 30Gb drive is starting to give me problems (Icons flashing, desktop refreshing on it's own, ect.) so I didn't want to copy that drive over to the new drive. I have a 40GB HD setup that I seldom used but had all of my programs installed, so it was in pristine condition.

I kept this as a backup drive in the event my main drive died, I could be up and working in a minute by just switching drives. All but the most recent of my data could then be copied from the CD-R backups if I couldn't retrieve them from the old hard drive.

## Copying the drive

With the 40 GB drive, on the Raid side of the motherboard , I installed the unformatted 80GB drive on the IDE channel as a master drive. Using the Max Blast floppy disk that comes with a new Maxtor drive, I booted the machine. But, when it booted it couldn't find the CD-Rom drive ( the instructions say to put the Maxtor CD in the drive along with the floppy boot in the A: drive).

I clicked on the Max Blast menu from the floppy and was shown another menu with the unformatted drive and the 40 GB drive, (that was setup with 4 - 10GB partitions). I was given the choice of copying the drive with 4- 20 GB partitions or changing the partition sizes, which I did and added a new partition to have 5 logical drives on the new drive, (4-15 GB and 1-20 GB). So I guess the CD isn't really needed, the files were copied and I was up and running in 50 minutes, which is about the same time it takes to just load W98se. All my programs worked, the internet and network connection's worked, my bookmarks and e-mail addresses where there. The Maxtor drive copy feature worked great for me, the next time you add a new drive if you're happy with the way the old drive is performing, try it out.



## *Newbies Corner ... Continued from Page 14*

Since it would be a large file, it would clog up the network and no one could communicate until the file was received. The file would in fact, go to each computer and ask, "are you looking for this?" The file would be sent in packets (about 1500 bytes) slowing up the process even more.

However putting a router on the network allows the packets to be "sniffed" or analyzed and their final destination determined. Therefore the packet would go across the network but the destination is predetermined and would go directly to computer 1, for example.

The same holds true when connected to the Internet. Incoming packets are analyzed and if I didn't ask for the information it will not get to my computer. If I ask for my portfolio from yahoo, I shouldn't get anything other than that.



## Windows Tips

As you know in Windows 9x/ME/XP there is always more than one way to do something. Try this to Maximize or Reduce the size of your Window.

Left-Click twice on the Title Bar, this will maximize or reduce the size of the window, it works like a toggle switch. This is easier than finding the little box in the right hand corner.



## Multiple File Registrations

To be able to open a file with more than one program, follow these instructions:

1. From Windows Explorer's menu select View > Folder Options, select the File Types tab

2. Find the file type you want to work with and double click it

3. In the Edit File Type dialog that opens you will see a box marked Actions. This is where Windows 98 stores the actions to be taken when you double click on a file, drag it to a printer, and so on. You can have more than one Open, so long as each action is a unique character string. For example, you could edit the Gif file type registration so that you have one entry named Open and another named Open (Paint Shop Pro). For each entry edit the actions needed to open the file with the appropriate application

4. To add an entry, simply press New and in the New Action dialog box, type the name of the action in the Action box

5. You can use the Browse button to find the Application used to perform action

6. Highlight one of the entries and click the Set Default button. That will be the application used when you double click on a file of that type. If, however, you right click the file, all of the entries you placed into the Actions box will appear on the context menu making it easy to open the file with the application of your choice.



## Headers in Word Documents

By Jim T & Jim H BUG members

One of our members, at the Windows SIG, brought up a problem he had with a Word document. It seems he put a Header on the first page, but it was printing out on all the pages and he couldn't find how to prevent that. We tried different things but didn't find an answer that night. The following Saturday Jim Hally stopped by and we started checking into the problem. Jim H. found the answer as follows:

### Before applying the Header to the document:

First, on the tool bar, go to **View / Header and Footer**, Click on **Page Setup** (the icon looks like a book), and click on **First Page Different**.

At this point you can then apply the Header to the first page, we found if you apply the Header first then click **First Page Different** it will still print the Header on all pages.



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# Fluoride in the Water

By Michael Robertson  
Founder and CEO of Lindows.com

When I was a kid, I remember there was a big commotion about the virtues of fluoridation for healthy teeth. People would schedule dentist appointments for fluoride treatments. Then one day, the world changed when it was announced that fluoride was being added to the drinking water supply. Instantly, everyone had fluoride without any effort on their part and without a costly visit to the dentist.

This week we're kicking off our "fluoride in the water" strategy for desktop Linux that we call "LindowsHD." Our goal is to make desktop Linux available for everyone, immediately and at no cost. Up until now, operating systems have been sold the same way for 20 years. They've either come in a cardboard box on a retail store shelf or more likely, a computer manufacturer has paid Microsoft \$100 per machine and installed it as they are building the computer (passing the \$100 cost onto the customer). Together with our new partner, Seagate, we're changing how the entire PC business works. You may not be familiar with Seagate, but they are the world's largest hard drive company, shipping about one-third of all hard drives for desktop computers. Seagate is now selling a line of hard drives pre-loaded with LindowsOS for the exact same price as a typical blank hard disc. Because the LindowsHD hard disc is available for the exact same price as the blank hard disc, the manufacturer is in effect, getting LindowsOS for free.

The #1 HD maker in the world is now shipping discs with LindowsOS pre-installed. Computer manufacturers will save billions by purchasing Seagate drives with LindowsOS, because it removes the need to purchase a \$100 license for every computer they sell. 55% of the computers sold today are "white boxes," meaning they don't carry a brand name. The white boxes are typically assembled by small to medium-sized companies. These companies can now use LindowsHD and avoid entering into expensive licensing agreements with software companies. All the money they save as a result, they can pass along to their customers in the form of cheaper desktop computers.

The value segment of the PC business (sub-\$500 desktops and sub-\$1000 laptops) is booming in the US, as well as in emerging markets. Cost conscience buyers will call for the most affordable price, which dictates a Linux-based solution. This makes LindowsHD an ideal weapon for computer manufacturers to compete aggressively in these expanding markets.

LindowsHD works with practically any Intel-compatible computer, with no installation process whatsoever, saving time, money and hassle. Simply plugging in the hard disc and starting the computer up, LindowsOS will auto-recognize all of the internal components (video card, ethernet card, sound card, etc.) with no user intervention. This would not be possible with most other operating systems because they require installation CDs to tailor the software for each particular configuration. If you've ever changed a part in your Microsoft Windows computer and had the software nag you to go find installation CDs before it would work again, you know what I'm talking about. LindowsOS operates in a more flexible manner. In fact, it's possible to take a LindowsOS hard disc out of one computer, and put it into a much different computer and it will auto-recognize all the new components. This auto-recognition feature allows Seagate to sell hard discs which will work in virtually all Intel-compatible computers with no custom installation.

Major distributors such as Bell Micro and Synnex are now selling LindowsHD with the English version of LindowsOS, to computer manufacturers. Interested manufacturers should go here for more information. We have just barely begun to feel the positive impact that desktop Linux is having on the industry. Our 'fluoride in the water' strategy will help accelerate the speed at which everyone can benefit from the affordability, security and ease of use that Linux is bringing to the world.

— Michael

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# Newbies Corner

By Jim Hally B.U.G. member

## Firewalls

Long before the word Firewall became popular in computing it had several meanings. One I am familiar with is its application in the construction industry. One example of its use is in a Strip Mall. As you know all the stores are connected. Firewalls are used above the ceiling line to prevent unseen penetration of fire from one unit to the adjacent units. The key word is unseen.

Today we use firewalls in computing to prevent unauthorized and unseen access to our computers while accessing the Internet. Surreptitious hackers on the Internet try and try again to infect any user connected to the Internet with viruses 24 hours a day. If their goal is not to inflict the discomfort of a virus then their intention turns to snooping files or gaining access to any computer in order to broaden their scope of whom they can touch.

At some point the main goal of hackers was to disrupt corporate networks. Within a short period of time they have moved into trying to cause havoc with individual users as well. Odd as it may be, I can almost understand the perverted pleasure in shutting down a corporate giant. Try as I might, I cannot come up with a single reason for going after Joe Blow. Like it or not Hackers are here to stay. As many of us move from dial-up services to broadband the number of targets grows exponentially.

At the present time there are two types of firewalls, hardware and software. Many times users use a combination of the two for extra security. The following paragraphs are generalizations and not necessarily correct. I simply use the following as a tool to get the point across.

As much as we strive to be individuals we turn into just a number, when we connect to the Internet. We may feel good being jhally@xyz.net but we remain just a number. The ISP we use has a unique or static IP address, like 205.222.105.11. This IP address does

not change. When connecting to the servers on the Internet they do not understand www.yahoo.com but they do know where 207.121.206.15 is and how to get there.

When we connect to the Internet our first connection is to 205.222.105.11, which is our ISP. Keep in mind that the following takes place in nanoseconds. My homepage may be finance.yahoo.com/?u... but I had to go through my ISP first. As soon as I connect to my ISP the server there assigns me an IP address as well. For all you poor dial-up folks lets assume this is what takes so long. In this case it is a dynamic IP address. By this it is meant that it is temporary or changeable. Lets call my dynamic address 205.222.33 for this session. When I click on my portfolio at finance.yahoo... My ISP has in so many words told yahoo "Hey this is Jim asking for his portfolio so send the information to him at 205.222.33, that is the number we have assigned to his computer for this session. Tomorrow it may be 205.222.41. I am assigned the IP address for the session at hand. This is why it is so hard for the interlopers to get to me as a dial-up user.

When using broadband it is a different story. Because it is an instant connection or "always connected" the IP address assigned to the user is static. By that I mean the number assigned is always the same. So, if a hacker is looking for an IP address assigned to me today I may or not be there. However a broadband address is always on so they are fair game. The way to protect the broadband user is to use a router. By using the router the ISP assigns a static IP address to the router and not the computer.

## Routers

Lets assume I have a small office that promotes sporting events and has 5 computers, labeled 1,2,3,4 and 5, all connected on a network. Some people would be doing letters, some would be tracking ticket sales and some would be doing graphics for upcoming events. Of course with the network we would all be able to communicate, since we are all connected. If the graphics guy decides to send me a sketch for an event it would go to all the computers on the network.

*Continued on Page 11*

## Special Interest Groups

### WINDOWS SIG

Meets 7:00 PM Thursdays  
1st & 3rd Thursday at Eau Gallie Library.  
All Other Thursdays at Melbourne Library on  
Fee Avenue.

### BEGINNERS SIG

Meets at 6:30 pm. Thursdays,  
before the Windows SIG.  
This is a trial, if we need more time,  
we will make other arrangements.

### IMAGING SIG

Meets at 7:30 PM the second and fourth  
Thursdays, after the Windows SIG, at the  
Fee Ave Library in Melbourne.

### NEWSLETTER SIG

Meets twice a month on the Saturdays before  
and after the BUG monthly meeting.  
Members interested in helping develop the  
newsletter are welcome.  
Place is Jim Townsend's home  
call 728-5979 for directions.

### TINKERS SIG

Meets on most Sundays at  
Bob Schmidt's house.  
Call 952-0199 for directions  
and to verify meeting.

## BUG Club Information

### BUG E-MAIL LIST

To be included in the BUG E-Mail roster,  
send an E-Mail to George Rymer at:  
**[grymer@cfl.rr.com](mailto:grymer@cfl.rr.com)**.

We will need your full name, E-Mail address and  
your BUG membership number. You will then  
receive notices and updates on BUG activities,  
special events, changes to  
schedules, etc.

### BUG Board of Directors

Meets the second Wednesday of the month at  
the Fee Ave. Library, in Study room 1  
Time 6:00 pm to 7:30pm

## Sponsorship Rates

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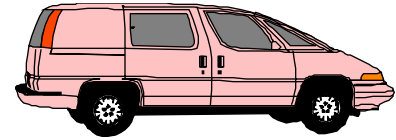
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