



# *The Cursor*

*Monthly Newsletter of the  
Washington Area Computer User Group*



Meeting Location  
OLLI, 4210 Roberts Road,  
Fairfax, VA



Next Meeting:  
April 17, 2010



## Presidential Bits

by Geof Goodrum, President WACUG, [president@wacug.org](mailto:president@wacug.org)

Fortunately, good weather prevailed for our March meeting on the last day of winter and we managed to have an excellent turnout for our presentations. Despite problems with the Internet connection, Paul Howard persevered to discuss Roboform (<http://www.roboform.com/>) to keep track of web site passwords and automate filling online forms, and demonstrate CutePDF Writer (<http://www.cutepdf.com/>) and FoxIT Reader (<http://www.foxitsoftware.com/pdf/reader/>), free utility programs to create and display/print PDF document files without the size and complexity of Adobe Reader. Chuck Roberts talked about his experiences using the free web-based Secunia, <http://www.secunia.com>, Online scanner and Personal Software Inspector (PSI) application to keep track of software updates on his Windows PC. Chuck ran the Online scanner first, which only checks for updates for a few major applications, then installed PSI on his PC. Although PSI did not recognize all software on his system and kept alerting about updates for some programs that could not be updated, Chuck found Secunia to be a useful program in addition to anti-virus and anti-malware programs to keep his PC software updated with the latest security and bugfixes. Bill Walsh hosted a Learn 30 tutorial session about the difference between 32 and 64 bits, and why this is important in selecting a PC operating system.

We did have enough Internet access to perform the drawings for SandHill Publishing one year magazine subscriptions using the list randomizer feature on the Random.org web site. The winners who weren't present have been notified. See bottom of page 7 for Smart Computing program details...

The April 17th meeting will feature Lorrin Garson's presentation on current readers for electronic books. There are approximately two dozen electronic book readers now on the market. In the United States, the most common devices are the (a) Amazon Kindles, (b) Barnes & Noble Nook, (c) Sony Readers, and soon, probably, (d) Apple iPads. Lorrin will discuss the characteristics of these e-book readers. In order to understand the dynamics of e-book reader development and competition, Lorrin will cover the following related topics; (a) major stakeholders in e-books, (b) the source of material

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# Lloyd's Web Sites for April, 2010

by Lloyd Johnson, WACUG Member

<http://www.wacug.org/> is the URL for the Washington Area Computer User Group. Visit it for past issues of Web Sites with hyperlinks

1. Small Business Administration, [www.sba.gov](http://www.sba.gov) ; The U.S. Small Business Association provides programs and services to help your business start, grow and succeed. Available courses are identified by topic. Click on 'About these Courses.' In general, the courses are all self-paced and should take about 30 minutes to complete. Most of the courses require a brief online registration
2. Want to know what native plants and wildflowers will thrive in our area? [www.wildflower.org/explore](http://www.wildflower.org/explore)
3. Time Pictures of the Week, [www.time.com/time/potw](http://www.time.com/time/potw). Archived since 2001, includes several photo montages of what's in the news
4. Project Gutenberg, [www.gutenberg.org/wiki/Main\\_Page](http://www.gutenberg.org/wiki/Main_Page). Project Gutenberg is the Internet's oldest producer of free electronic books (eBooks or eTexts). There are over 25,000 free books in the Project Gutenberg Online Book Catalog
5. Ancient Art of Paper Folding, [www.origami.vancouver.bc.ca](http://www.origami.vancouver.bc.ca)
6. The ultimate answer engine, [www.answers.com](http://www.answers.com)
7. Thursday 29 April carry a poem in your pocket to share. ( Academy of American Poets) [www.Poets.org/pocket](http://www.Poets.org/pocket)
8. Mahalo (Mahalo is Hawaiian for Thank you) [www.mahalo.com](http://www.mahalo.com); Mahalo is a spam-free search engine
9. Life123: How To Guides for Busy Lifestyles, [www.life123.com](http://www.life123.com) "Life123 covers the best of everything on topics spanning all of life's categories-delivered at the speed of life! Informative guides, articles, videos and more."
10. NOAA: Ocean Explorer. Want to explore the Ocean Realm?[www.oceanexplorer.noaa.gov](http://www.oceanexplorer.noaa.gov)



## NCTCUG

Visit our "sister" user group. The National Capital Technology and Computer User's Group meets the first and fourth Wednesday of the month. They meet in Carlin Hall in Arlington at 5711 South 4<sup>th</sup> Street. Visit their web site for more information, a map and directions:

<http://www.nctcug.org/>

Meetings start at 7:00 PM

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**Washington Area User  
Group Partners  
Working Together For  
Our Members**

**NCTCUG**

**WACUG**

**OPCUG**



## GNU/Linux SIG

By Geof Goodrum, WACUG

### GNU/Linux Distribution Releases

GNU/Linux distributions are bundled collections of software including a set of applications and an operating system built on the Linux kernel. Some distributions include general applications such as office suites, music players, and web browsers, while others may have specific purposes such as computer system recovery, network firewall, media center, or gaming. Individuals, community projects, or businesses create distributions. While some distributions are commercial and include fee-based technical support, other distributions are freely downloadable or can be ordered on CDs or DVD at low cost.

WAC can provide CD-R and DVD±R media for any downloadable GNU/Linux operating system distribution (e.g. Fedora, Mandriva, Ubuntu, Debian, Knoppix). Please note that downloadable distributions do not include official technical support nor printed documentation. Single CD-R discs are available with a \$3 donation; GNU/Linux distributions on multiple CD-Rs or single DVD±R are available with a \$6 donation. Discs are available only by pre-order. Contact Geof Goodrum by e-mail ([linux@wacug.org](mailto:linux@wacug.org)) at least 48 hours before meeting day to order or for more information.

DistroWatch.com lists the following distribution release announcements for the period March 3 - 31, 2010.

Distribution
<a href="#">Berry Linux 1.01</a>
<a href="#">Clonezilla Live 1.2.4-28</a>
<a href="#">Berry Linux 1.00</a>
<a href="#">eBox Platform 1.4-1</a>
<a href="#">Element 1.1</a>
<a href="#">Elive 2.0</a>
<a href="#">Frugalware Linux 1.2</a>
<a href="#">Linux Mint 8 “Xfce” and “LXDE”</a>
<a href="#">Mandriva Enterprise Server 5.1</a>
<a href="#">NexentaStor 3.0</a>
<a href="#">NuTyX 2009.3</a>
<a href="#">Parted Magic 4.9</a>
<a href="#">PC/OS 10.1.1</a>
<a href="#">PureOS 2.0</a>
<a href="#">Red Hat Enterprise Linux 5.5</a>
<a href="#">Sabayon Linux 5.2</a>
<a href="#">SimplyMEPIS 8.5</a>
<a href="#">Slitaz GNU/Linux 3.0</a>
<a href="#">SystemRescueCd 1.5.0</a>
<a href="#">Tiny Core Linux 2.10</a>



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<a href="#">Trisquel GNU/Linux 3.5</a>
<a href="#">Untangle Gateway 7.2</a>
<a href="#">VortexBox 1.2</a>
<a href="#">Vyatta 6.0</a>

## Linux Software of the Month

The software described below is downloadable at the links provided or copied onto a USB flash drive at the WAC meeting.

### April 2010

**Simon Tatham's Portable Puzzle Collection—r8887.** <http://www.chiark.greenend.org.uk/~sgtatham/puzzles/>. Free MIT License 'C' source code by Simon Tatham. The Portable Puzzle Collection is an assortment of single-player puzzle games. It contains a re-implementation of Minesweeper where every puzzle is guaranteed to be solvable, a number of logic puzzles originally invented by Nikoli, an implementation of Sudoku, and an assortment of other familiar and not-so-familiar puzzle games perfect for energizing your brain during a coffee break.\*

**SuperPodder – v1.7.** <http://code.google.com/p/superpodder/>. Free Apache License 2.0 Java code by Frank van Lingen. SuperPodder is a lightweight podcast downloader. It features a text based history file that prevents duplicate downloads, a simple XML format for storing your feeds, a simple user interface that gives a detailed overview of download progress, and the ability to specify how many downloads you want from a particular feed. SuperPodder supports RSS feeds containing torrent files.\*

**UNetbootin – v419.** <http://unetbootin.sourceforge.net/>. Free GNU General Public License source code and executable by Geza Kovacs. UNetbootin allows you to create bootable Live USB drives for a variety of Linux distributions from Windows or Linux, without requiring you to burn a CD. You can either let it download one of the many distributions supported out-of-the-box for you, or supply your own Linux .iso file if you've already downloaded one or your preferred distribution isn't on the list.\*

\* Screenshots of these three applications appear on pages 6 and 7.

**VICE – v2.2.** <http://viceteam.org/>. Free GNU General Public License source code and executable by The VICE Team. VICE is a program that runs on

a Unix, MS-DOS, Win32, OS/2, Acorn RISC OS, BeOS, QNX 4.x, QNX 6.x, Amiga, GP2X, Dingoo, Syllable, SkyOS or Mac OS X machine and executes programs intended for the old 8-bit computers. The current version emulates the C64, the C64DTV, the C128, the VIC20, almost all PET models, the PLUS4 and the CBM-II (aka C610). VICE requires access to the original Commodore ROMs.

**Kernel Source – v2.6.33.** <http://www.kernel.org/>. Free GNU Public License source code for all platforms by the Linux community.

### Sony Update Removes OtherOS Feature from PS3

*Thanks to Paul Howard for bringing this news to my attention.*

On April 1st, Sony Computer Entertainment, Inc. released a firmware update for the Sony PlayStation 3 (PS3) entertainment system that disabled the "OtherOS" feature on the original "FAT" models of the PS3. OtherOS allowed the installation of GNU/Linux operating systems in addition to the native "GameOS" on the PS3 (the OtherOS feature is not included in the current "Slim" model PS3). Sony's announcement on the PlayStation blog (<http://blog.us.playstation.com/2010/03/28/ps3-firmware-v3-21-update/>) states that this feature was removed "due to security concerns." Sony warns users of the OtherOS feature to backup their files onto external media before applying the update.

The community consensus is that the "security concerns" result from the January announcement by well-known iPhone hacker George Hotz (aka Geohot) that he had cracked the security protections on the PS3 to gain access to PS3 system memory and processors (<http://geohotps3.blogspot.com/2010/01/hello-hypervisor-im-geohot.html>). Geohot followed up on his blog by publishing the exploit, which he found by using Ubuntu Linux under the OtherOS feature. Sony apparently believes this exploit can be used to compromise the system to pirate games or services.

While PS3 users are not forced to accept and install the firmware update, Sony warned that refusing to do so would, among other things, prevent access to the PlayStation Network required for online multiplayer games, downloadable content (games, game demos,

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game updates, themes, video) and the PlayStation Home online community. This also prevents future functionality updates, including PS3 support for 3D BluRay discs expected later this year.

Admittedly, few PS3 users take advantage of the OtherOS feature, but I am one of them, and I am not happy that Sony is removing an advertised feature that was one of its major selling points for me, and something that I demonstrated at WAC meetings. Even PS3 owners who don't use the OtherOS feature expressed their concern and anger on the official PlayStation 3 blog that Sony is setting a very bad precedent by forcing removal of established features with an update. While the Sony PS3 End User License Agreement (EULA) allows this, the legality is still being debated.

On April 1st, I received notice on my (Internet connected) PS3 that the update was available for download. I refused to install it, but, as Sony warned, my PS3 refuses to connect to the PlayStation Network until the update is installed. However, for the moment, my Netflix Internet streaming video access continues to work on the PS3.

Its also worth noting that Geohot posted on his blog that he advises users not to install the firmware update while he investigates modifying the PS3 firmware update to retain the OtherOS feature without disabling PlayStation Network access.

**Press Release:** Utah Jury Confirms Novell Has Ownership of Unix Copyrights

WALTHAM, MA.

30 Mar 2010

Today the jury in the District Court of Utah trial between SCO Group and Novell issued a verdict determining the ownership of important Unix copyrights.

The jury's decision confirmed Novell's ownership of the Unix copyrights, which SCO had asserted to own in its attack on Linux. Novell remains committed to promoting Linux, including by defending Linux on the intellectual property front.

Ron Hovsepian, Novell president and CEO, said "This decision is good news for Novell, for Linux, and for the open source community. We have long contended that this effort against Linux has no foundation, and we are pleased that the jury, in a unani-

mous decision, agrees. I am proud of Novell's role in protecting the best interests of Linux and the open source community."

#### About Novell

Novell, Inc. (Nasdaq: NOVL) delivers the best engineered, most interoperable Linux platform and a portfolio of integrated IT management software that helps customers around the world reduce cost, complexity and risk. With our infrastructure software and ecosystem of partnerships, Novell harmoniously integrates mixed IT environments, allowing people and technology to work as one. For more information, visit [www.novell.com](http://www.novell.com).

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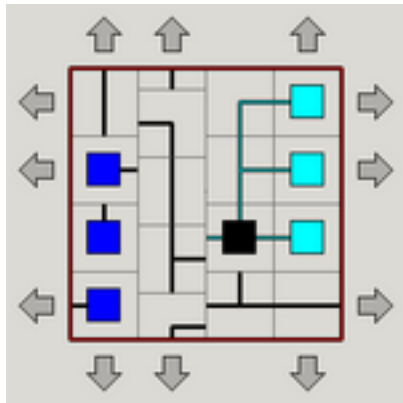
Kerry Adorno

Novell, Inc.

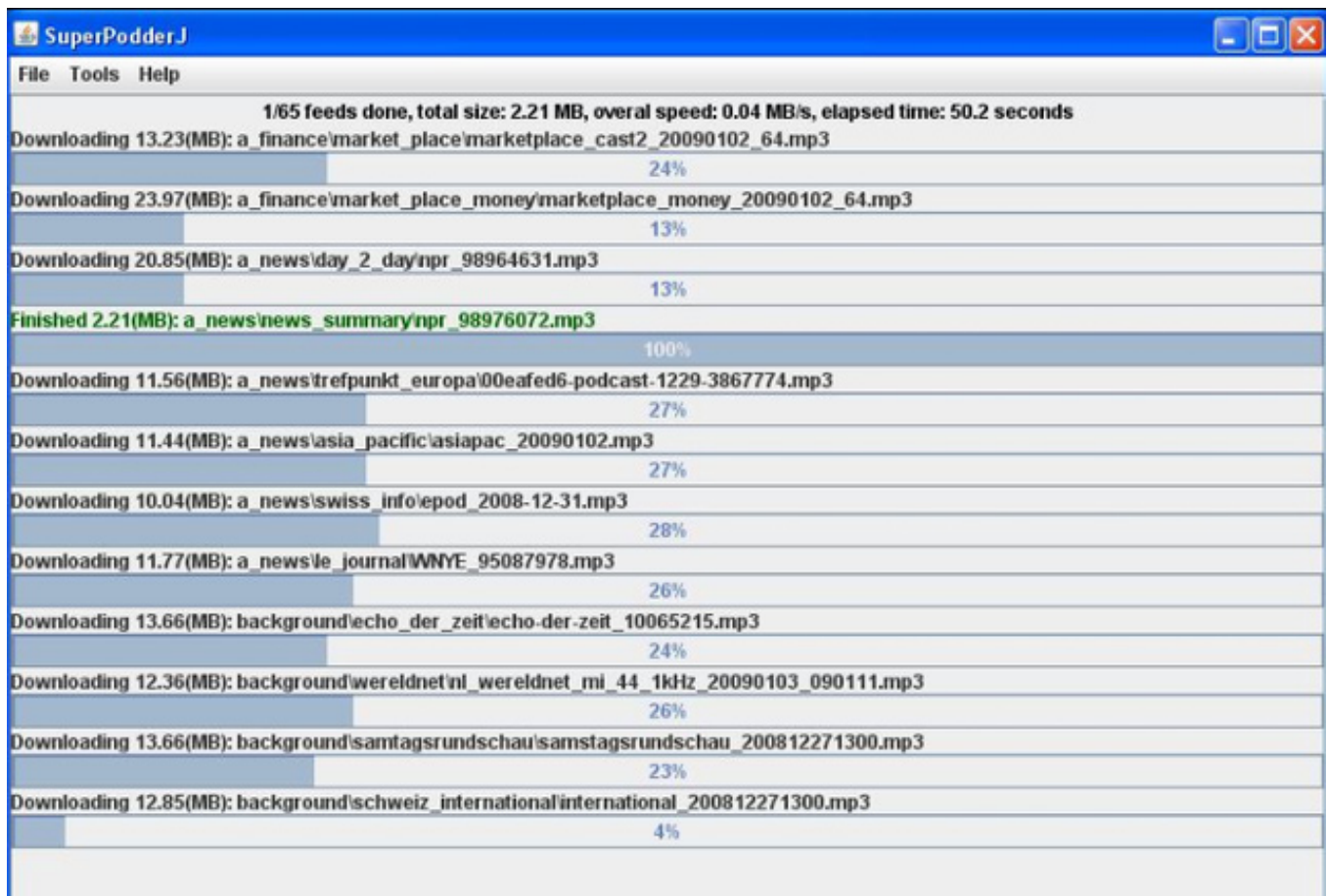
Telephone: +1 781 464-8042

Email: [kadorno@novell.com](mailto:kadorno@novell.com)





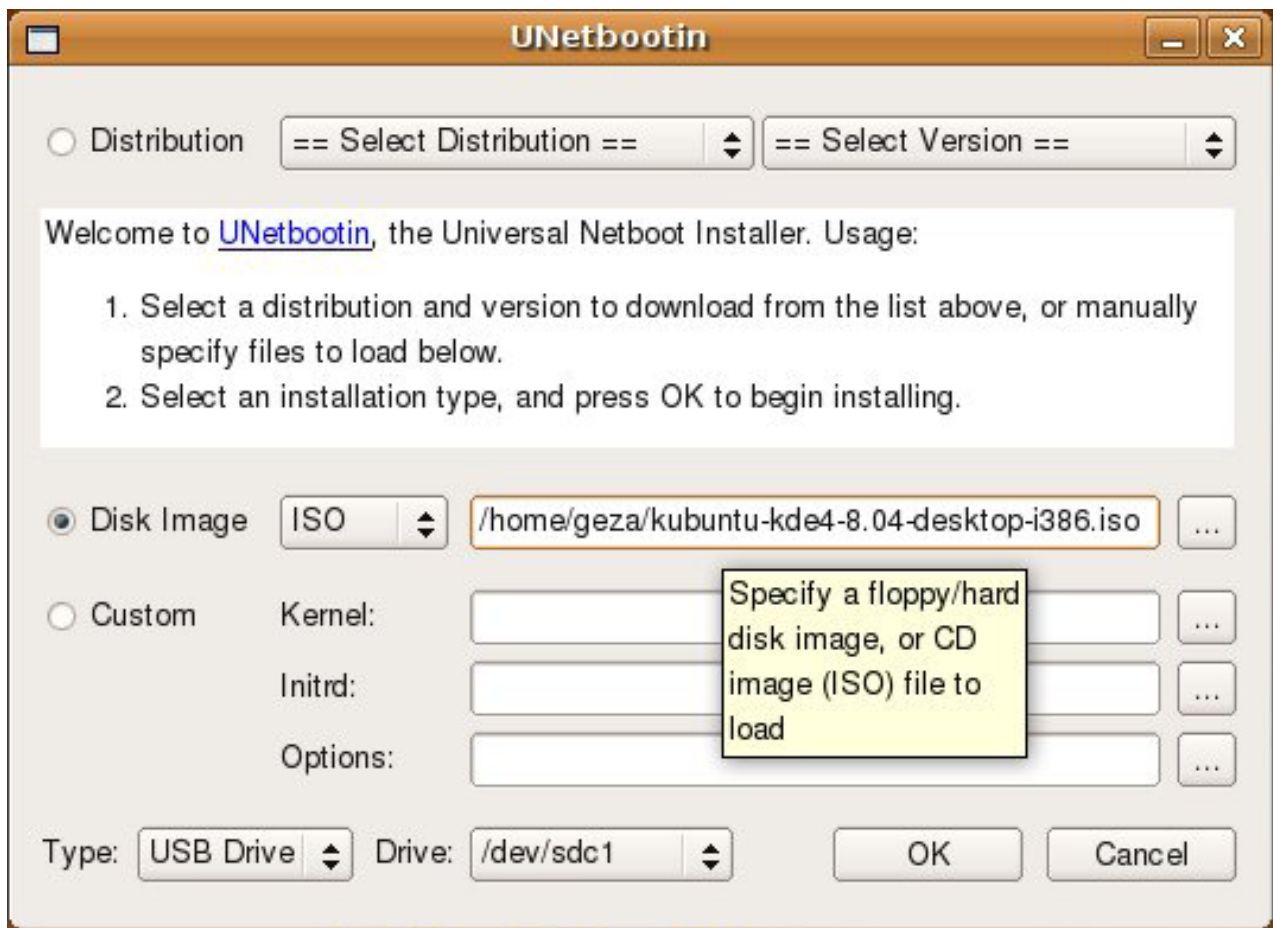
Simon Tatham's Portable Puzzle Collection — page 4



SuperPodder — page 4

for e-books, (c) file formats used by e-books, (d) alternate means of electronic delivery, (e) the negative and positive attributes of e-book readers in general, and (f) factors consumers should consider in selecting an e-book reader. For the Learn 30 tutorial session, Neal Grotenstein will discuss disk defragmentation and how to use the “show mouse” feature in Microsoft Windows.

See you there!



UNetbootin — page 4

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## Smart Computing Update

Smart Computing magazine has concluded its User Group Subscription Program by providing WACUG with three subscriptions for door prize drawings beyond the one we'd been credited with under the program over the last few months. A special drawing was concluded during our March meeting, and the winners are: John Sullivan, Fred Cook, John Keys, and Norbert Pink. Consumer magazines published by Sandhills Publications include *Smart Computing*, *PC Today*, *First Glimpse*, and *CPU* – Computer Power User.



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# MS Office Tips

from Sharon Parq Associates

Sharon Parq Associates has been kind enough to provide new content to The Cursor on a monthly basis. This is their April submission.

## Deleting a Hyperlink

Part of Microsoft Excel's compatibility with the Web is to allow you to define hyperlinks in your workbooks. There may come a time when you no longer need a particular hyperlink. Fortunately, deleting a hyperlink in Excel is very easy to do. All you need to do is follow these steps:

1. Right-click on the hyperlink. Excel displays a Context menu.
2. Choose the Hyperlink option from the Context menu. Excel displays a submenu.
3. Choose Remove Hyperlink from the submenu. Excel dutifully removes the hyperlink.

You should note that in some versions of Excel (such as Excel 2003 and Excel 2007) there is a Remove Hyperlink option directly on the Context menu displayed in step 1. If this is the case, consider yourself fortunate—you can directly remove the hyperlink without the extra steps.

Don't make the mistake of thinking that you can get rid of a hyperlink simply by clearing a cell (moving to the cell and pressing Del). You can do this in the newer versions of Excel, but you cannot in the older versions. If you do this, the hyperlink text is gone, but the hyperlink itself is still lurking in the background. If you type some information in the cell again, you will notice it is underlined, indicating it is still a hyperlink. The reason for this is because Excel considers the hyperlink to be a format of the cell. Pressing Del only clears the contents of the cell, not its format. You can use other editing techniques to get rid of a hyperlink, however, provided those techniques result in getting rid of formatting or overwriting the formatting.

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## Mixing Column Formats On a Page

It is not uncommon to have a document that mixes different column layouts on a single page. For instance, let's assume you have a five-page document,

and you want to format the center part of page two as three columns. You want the rest of the document to remain a single column. To overcome this formatting challenge, you can follow these steps if you are using Word 97 through Word 2003:

1. Select the text that will appear in the columns.
2. Choose the Columns option from the Format menu. Word displays the Columns dialog box.
3. In the Number of Columns field, specify the number of columns you desire.
4. In the Apply To box, make sure it says Selected Text.
5. Click on OK. Word places the selected text into its own section and sets it in the number of columns you specified.

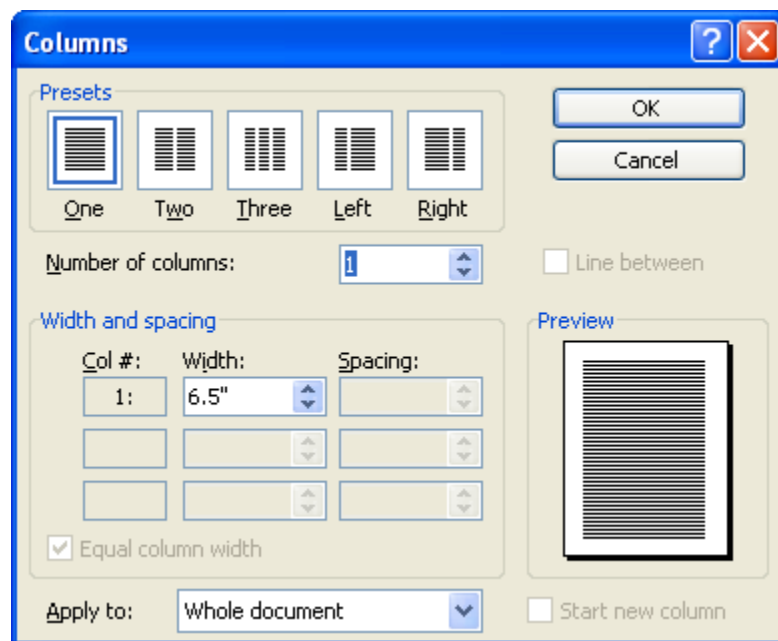
If you are using Word 2007, then the steps are a bit different:

1. Select the text that will appear in the columns.
2. Choose the Page Layout tab for the ribbon.
3. In the Page Setup group, click the Columns drop-down list.
4. Pick the number of columns you want to use for the selected text.

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*The Column Dialog Box*

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## Nybbles and Bits

By John Pearce, Chair, WebBoard, Pikes Peak  
Computer Application Society, CO  
<http://ppcompas.apcug.org>  
[Glenihan \(at\) comcast.net](mailto:Glenihan(at)comcast.net)

Last month, I mentioned an article in TechRepublic regarding removing old drivers from your system. Little did I know that issue was going surface in my notebook computer that I upgraded to Win 7. The touchpad on my notebook computer has a vertical scroll area at the right side of the pad. I had no problems using the vertical scroll until I upgraded to Win 7 at which point, it stopped working.

I ignored the problem until just after the January PPCompAS meeting. When I started to investigate and tried to access the settings for the touchpad, there was a pop-up dialogue box telling me that IntelliPoint was blocked from running because of known incompatibilities with Win 7. It took me a few minutes to remember that I had bought a USB mouse and installed Microsoft IntelliPoint software shortly after purchasing the notebook. I had used the USB mouse until I bought a Logitech wireless mouse a year or so ago.

My first thought was to just remove the offending software. Good idea except there was nothing shown for IntelliPoint in the Programs and Features list and nothing for the USB mouse in the Mice section of Device Manager. Connecting the USB mouse made it appear in Device Manager and caused IntelliPoint to appear in the Programs list. I thought I was close to being done. Surprise, surprise! Trying to perform an uninstall of the software produced the pop-up about IntelliPoint being blocked. I wondered how you could uninstall it if it was blocked from running. This time the pop-up dialogue box provided a link to an update and I performed the update. After the IntelliPoint update completed, the vertical scroll on the touchpad worked correctly. However, I decided to remove IntelliPoint because I no longer use the USB mouse and could not think of a good reason to leave the software installed.

This is the first time I can remember where it was necessary to upgrade software just to remove it. I expect the Win 7 upgrade did not upgrade the IntelliPoint software because the USB mouse was not connected at the time the upgrade was performed.

Maybe next time I will remember that USB devices should be plugged in during an upgrade and to make the related software and drivers visible. Even better would be to remove old drivers as TechRepublic suggests.

This article has been obtained from APCUG with the author's permission for publication by APCUG member groups; all other uses require the permission of the author (see e-mail address above).



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*The Cursor* provides news, commentary and product information to members of the Washington Area Computer User Group.

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**Send membership inquiries and address changes to: [membership@wacug.org](mailto:membership@wacug.org)**

**Send article submission and reprint requests to the Editor: [cursor@wacug.org](mailto:cursor@wacug.org)**

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**WAC Membership/Renewal Application**

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Dues are collected on an Annual basis and includes:  
downloadable links for WAC's monthly newsletter,  
*The Cursor*, in PDF format

Individual/Corporate/Family Dues: \$25.00  
\$5 annual surcharge for delivery of the Cursor by  
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Remit payment in person at the WAC Membership  
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Make checks payable to WAC. Please do not send  
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**Membership Survey:** Help us to help you by completing this survey.  
List the computer systems you own / use (in order of preference)

Operating System(s): \_\_\_\_\_

Modem(s): \_\_\_\_\_

Printer(s): \_\_\_\_\_

Other Hardware: \_\_\_\_\_

Favorite Software: \_\_\_\_\_

Connection: (circle one)   Dial-up   or   Broadband

**Circle Your Interests:**   Photo Printing   Investing   Games

Digital Photography   Internet Access   Education   Music

Graphics/Animation   Genealogy   Video   Finance

Programming Language(s) \_\_\_\_\_

Hardware Upgrades/Repair   List others below

Next WAC Meetings: • Apr 17 • May 22 • Jun 19 • Jul 17 • Aug 14

Call (703) 370-7649 for the latest meeting information or Visit our Web Site at:

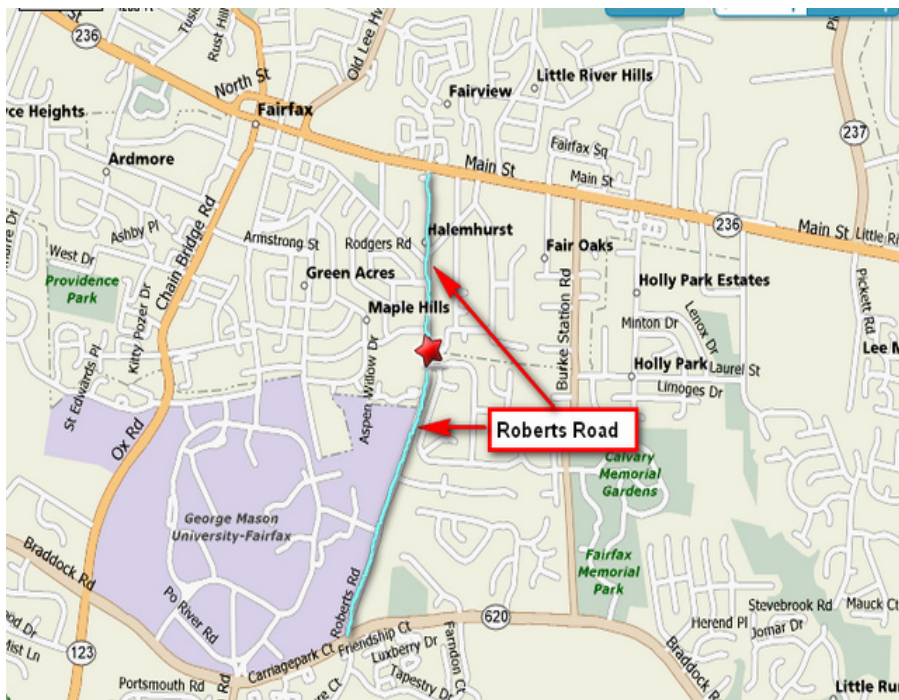
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## NEWS RELEASE

### **Cox to Host E-Waste Recycling Event in Northern Virginia, George Mason University, Synergy Recycling Partnering with Cox on April Event**

FOR IMMEDIATE RELEASE April 1, 2010, Fairfax, VA – In partnership with George Mason University, Cox Communications is hosting its second electronics waste recycling event on Saturday, April 24, 2010 at the Fairfax Campus of George Mason University, Lot K.

The event will be held from 9 a.m. to 1 p.m. and is free and open to the public throughout Fairfax County and beyond.

"April is often referred to as 'earth month'...and in commemoration of this annual celebration, Cox is very pleased to join with George Mason University to sponsor an electronics recycling event. Both Cox and George Mason have a very strong commitment to environmental protection and recycling," says Gary McCollum, Cox Virginia's senior vice president and general manager.

All electronic items are accepted for this event. The list of items accepted includes, but is not limited to the following:

- CPUs, servers and other computers
- Monitors (CRT and LCD based)
- Computer mice, printers, cables and modems
- Speakers, scanners, and other electronic peripherals
- Networking hardware
- Fax machines, answering machines
- Copy machines
- Power tools
- Televisions, VCRs, CD players, DVD players and remote controls
- Audio visual equipment
- iPods, MP3 players, computer games

- Microwaves and other small kitchen appliances
- Cell phones, telephones, radios, CB radios and stereos
- Calculators
- *As well as most other electronic items*

"We are pleased to partner with Cox and George Mason University for this event. The improper disposal of electronic waste hurts our rivers, lakes and the environment in general. We hope that many area residents take advantage of this great opportunity to do their part to ensure that these materials are properly disposed of," says Dave Dibeau, Synergy Recycling.

For details re: the recycling event, contact Felicia Blow at (757) 222-8432 or [felicia.blow@cox.com](mailto:felicia.blow@cox.com). Also, to learn more about the recycling process, visit [www.synergyrecycling.com](http://www.synergyrecycling.com).

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#### About Cox Communications

Cox Communications is a multi-service broadband communications and entertainment company with more than 6.2 million total residential and commercial customers. The third-largest cable television company in the United States, Cox offers an array of advanced digital video, high-speed Internet and telephony services over its own nationwide IP network, as well as integrated wireless services. Cox Business is a full-service, facilities-based provider of communications solutions for commercial customers, providing high-speed Internet, voice and long distance services, as well as data and video transport services for small to large-sized businesses. Cox Media offers national and local cable advertising in traditional spot and new media formats, along with promotional opportunities and production services. More information about the services of Cox Communications, a wholly owned subsidiary of Cox Enterprises, is available at [www.cox.com](http://www.cox.com), [www.coxbusiness.com](http://www.coxbusiness.com), and [www.coxmedia.com](http://www.coxmedia.com). In Hampton Roads, Cox has more than 400,000 basic cable subscribers.

#### About Synergy Recycling, LLC

Synergy Recycling LLC is a privately held firm located in Mayodan, North Carolina. A recent \$15 million dollar expansion of new processing facility in Madison North Carolina and into Hampton Roads

See Cox next page



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Cox from page BP!

and Roanoke, Virginia offers statewide ISO certified electronics recycling. Synergy is ISO 14001:2004 (EMS) Certified for environmental management and was recently certified ISO 18001 (OHSAS) for occupational health and safety. Synergy Recycling's services include environmentally responsible recycling of obsolete and end of life electronic equipment, asset recovery, and certified data destruction of proprietary or otherwise sensitive media, logistics and transportation for the materials handled. Synergy's scope of work enables recycling services for companies as large as the Dell Reconnect Program and small businesses alike. More information about the services of Synergy Recycling is available at [www.synergyrecycling.com](http://www.synergyrecycling.com). David Dibeau can be reached at [hrrecycling@synergyrecycling.com](mailto:hrrecycling@synergyrecycling.com) or (757) 339-4010.

#### About George Mason University

Named the #1 national university to watch in the 2009 rankings of U.S. News & World Report, George Mason University is an innovative, entrepreneurial institution with global distinction in a range of academic fields. Located in Northern Virginia near Washington, D.C., Mason provides students access to diverse cultural experiences and the most sought-after internships and employers in the country. Mason offers strong undergraduate and graduate degree programs in engineering and information technology, organizational psychology, health care and visual and performing arts. With Mason professors conducting groundbreaking research in areas such as climate change, public policy and the biosciences, George Mason University is a leading example of the modern, public university. George Mason University—Where Innovation Is Tradition.

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## Improve PC Performance With TuneUp Utilities 2010

by Ira Wilsker

WEBSITE:

<http://www.tune-up.com>

Many of us seem to be in a perennial battle to improve the performance of our computers, trying to tweak out the last little bits of performance that our machines are capable of. I am always searching for ideas and utilities that can provide that last little bit of performance improvement, and have tried literally dozens of software products that claim to improve performance. While most do work well, there are always a few that do not. Recently, I downloaded a copy of TuneUp Utilities 2010 hoping to squeeze that last bit of speed out of my Windows 7 computer, and it appears to work very well, as advertised!

I went to [www.tune-up.com](http://www.tune-up.com) and downloaded the free, fully functional 30 day trial. It downloaded quickly, and installed smoothly. The full retail price of the 2010 version is \$50, and for those with earlier versions (like me) the upgrade price was \$30. Checking my favorite price comparison website, Google's Froogle service ([froogle.google.com](http://froogle.google.com)), showed that the software is currently available from several online retailers at substantial discounts.

After opening the program, I was greeted with four windows marked "Maintain system", "Increase performance", "Fix problems", and "Customize Windows". The "Maintain system" shows a green check marked "Automatic" that by default (settings can be manually changed) will check the computer for problems every three days while the machine is idle. The automatic setting will optimize the system startup and shutdown, defragment the hard drive, remove broken shortcuts, and clean and defragment the registry. There is also an option for a "1-Click Maintenance" that will run the automated maintenance utilities whenever desired by the user.

In order to "Increase performance", TuneUp Utilities 2010 offers a real-time "live optimization", a turbo mode, a hard drive cleaner (removes useless files), configures the system startup for optimal performance, and offers to uninstall unneeded programs. The summary that was displayed indicated that I had four things that still needed to be optimized,

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which included one recommended Firefox plug-in, and changing two Firefox settings; one visual effect should be turned off in order to improve my video performance. Implementing these recommendations should improve my Internet performance. *TuneUp Utilities* will automatically implement these recommendations if the user approves of the changes.

Under the heading “Fix problems”, only one problem was detected on my computer, and that was the fact that I had not recently checked my hard drive for errors. The software incorporates a “*TuneUp Disk Doctor*” to detect and repair hard drive errors and related problems, which can be invoked with a mouse click. In addition to checking the hard drive for errors, the software will search for common problems, can restore deleted files, and manage running programs.

Many of us like to customize the way that Windows works and appears to us, rather than accept the program defaults. The “Customize Windows” feature allows the user to control the display, input options, start menu, task bar, network and browsers, email, personal privacy, user logons, clean the memory and cache, maintain the system startup, system security, and many other settings. The user need not be a geek in order to perform these tasks, as the options are clearly explained, and *TuneUp Utilities* will actually do the real work. Many users are afraid to make system changes, and have a concern that they may do something wrong and ruin their computers; the “Rescue Center”, with a life-ring icon, can selectively undo any changes that were made, allowing any changes to be undone.

The four tune up boxes do not contain the only available functions, as there is a pull down menu labeled “More functions” that offers additional tools to the user. The user can get an optimization report, undo changes, check for software updates, show system information, and other functions. For those worried about securely deleting information, there is a *TuneUp Shredder* which can securely delete files such that they would be very difficult to recover. For those who like to manually tweak the registry, an activity that I do not recommend unless the user is very aware of what he is doing and has backed up the registry prior to modifying it, there is a *TuneUp Registry Editor* which is much more feature rich than Windows inte-

gral “Regedit” registry editor.

While I have no empirical scientific evidence that *TuneUp Utilities 2010* has actually improved my performance, I do have the perception that my Windows runs smoother, boots faster, shuts down quicker, and demonstrates better performance. I was happy with the results, and will continue to use the program.

*TuneUp Utilities* has been a popular utility, with over 10 million registered users since the first version was released in 2003. It runs well on modern versions of Windows starting with XP, and including Vista and the new Windows 7, in both 32 and 64bit builds.

I would suggest that users download the free, fully functional, 30 day trial version of *TuneUp Utilities 2010* from [www.tune-up.com/download](http://www.tune-up.com/download), and put it through its paces. If it works as expected, then purchase it. I now have the full version and use it frequently to keep my computer performing up to its capacity. *Screen shots continue...*



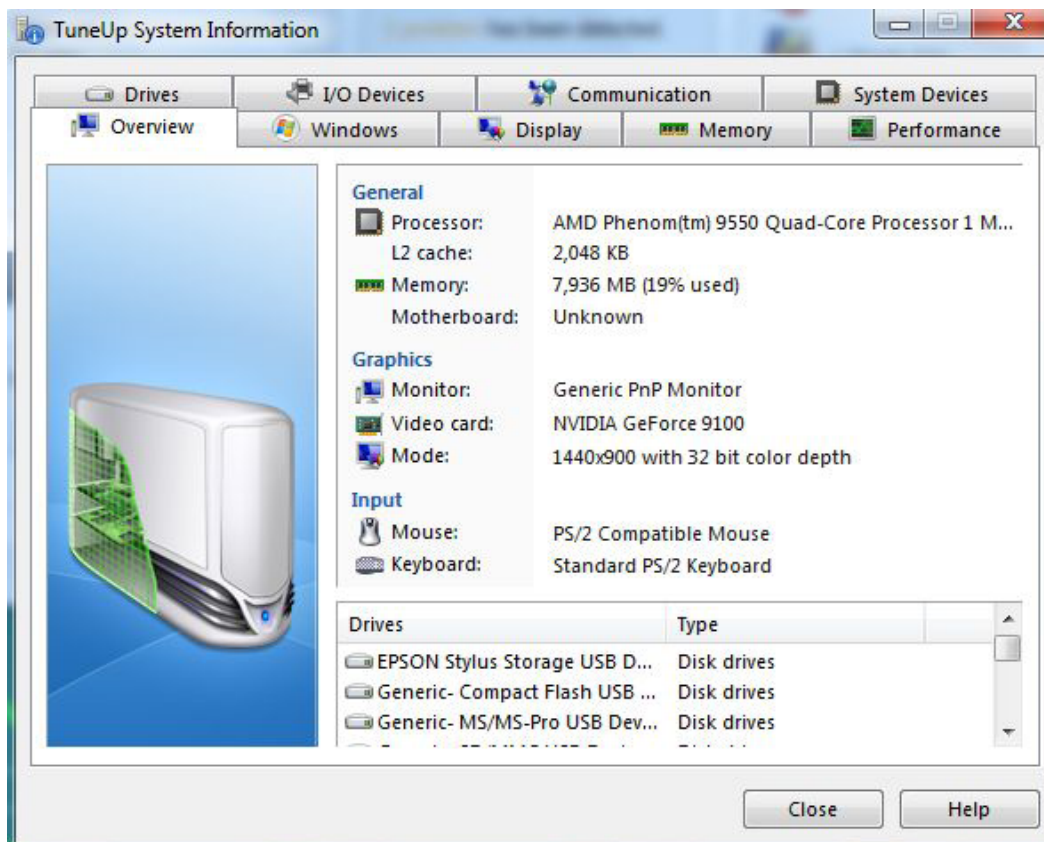


TuneUp 2010

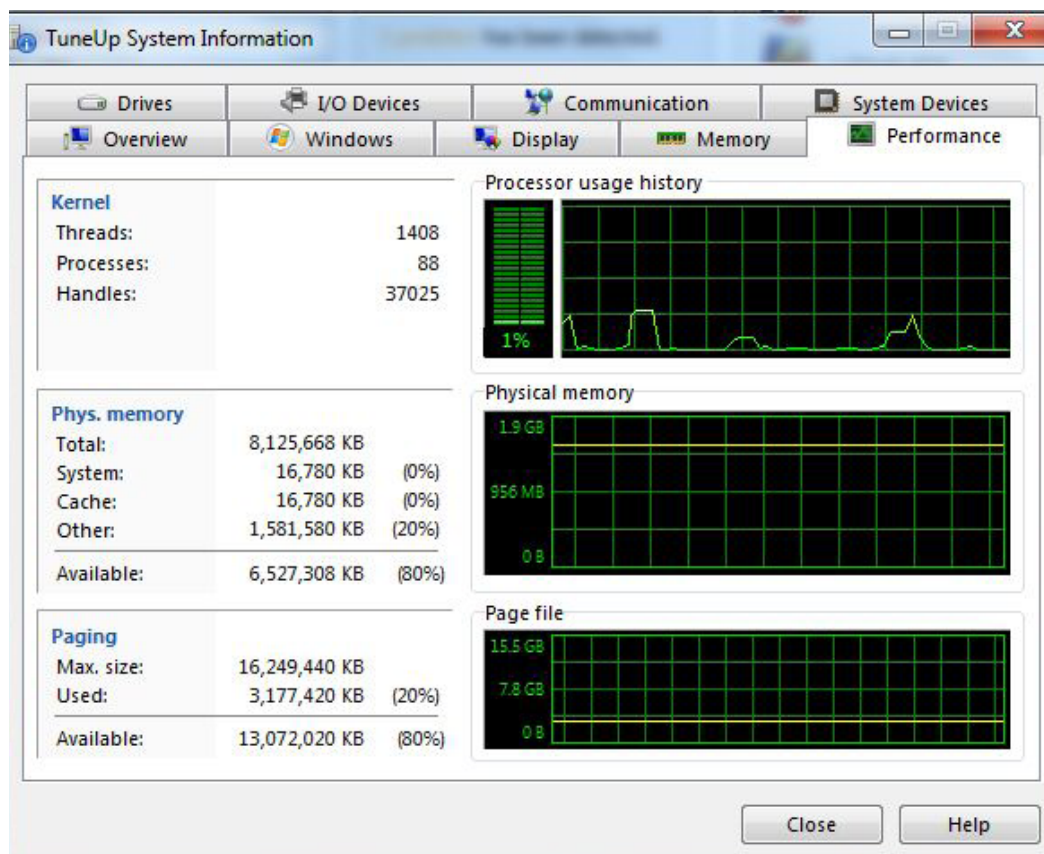


TuneUp Shredder

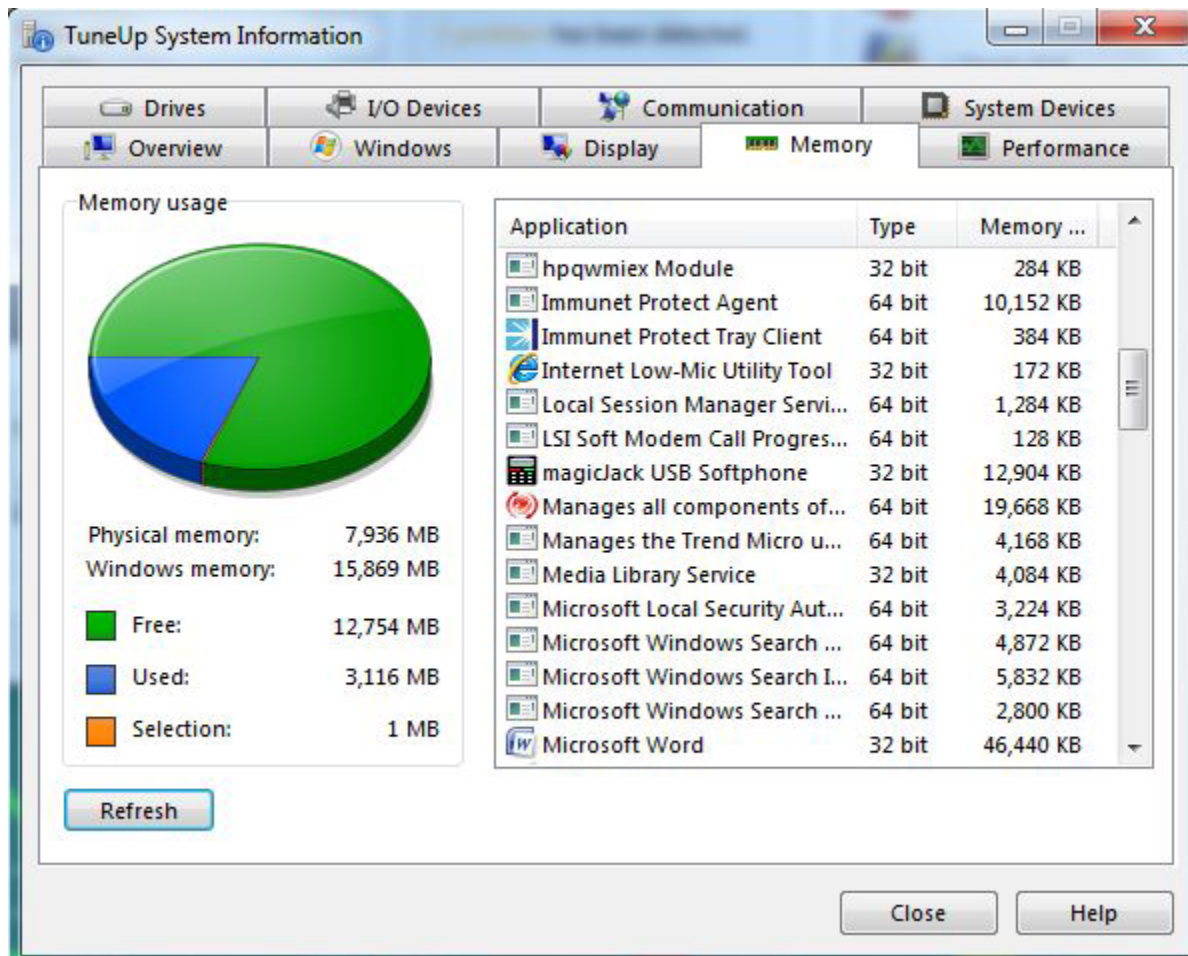




TuneUp 2010 System Info1



TuneUp 2010 System Info2



TuneUp 2010 System Info3