#### Symptoms:

My windows computer is running slower and slower.

#### Solution:

Install and run the following utilities in the order of 1 through 10. Reboot your computer after you complete an installation. With each completed utility installed, your computer will begin to run faster.

### 1. Uphclean

http://www.microsoft.com/downloads/details.aspx?familyid=1B286E6D-8912-4E18-B570-42470E2F3582&displaylang=en

### 2. Ccleaner

http://www.filehippo.com/download\_ccleaner/ download latest version in the top right corner

## 3. Virtual Ram

Virtual RAM should be set to 1.5 the amount of ram in your computer to 2 times the amount of ram in your computer. To check and set the ram: Open control Panel and click on System.



The RAM totals is shown on the General tab.



Note the amount of RAM as circled above.

To set the RAM, click on the advanced tab.

System Properties			? ×		
System Restore	Automatic Upo	dates	Remote		
General C	omputer Name H	ardware .	Advanced		
General       Computer Name       Hardware       Advanced         You must be logged on as an Administrator to make most of these changes.       Performance         Visual effects, processor scheduling, memory usage, and virtual memory       Settings         User Profiles       Desktop settings related to your logon					
Startup and Recovery					
System startup, system failure, and debugging informationSettings					
Environment Variables Error Reporting					
	OK	Cancel	Apply		

Click on the Settings button in the Performance section.

Performance Options ? 🗙				
Visual Effects Advanced Data Execution Prevention				
Processor scheduling By default, the computer is set to use a greater share of processor time to run your programs. Adjust for best performance of: Programs C Background services				
Memory usage				
By default, the computer is set to use a greater share of memory to run your programs.				
Adjust for best performance of:				
Programs     C System cache				
Virtual memory A paging file is an area on the hard disk that Windows uses as if it, were RAM.				
Total paging file size for all drives: 1536 MB				
OK Cancel Apply				

Click on the Advance tab and then click on the Change button.

Virtual Memory			? ×
Drive [Volume Label]	Pagin	g File Size (MB)	
C:		1536 - 2048	
Paging file size for sele	ected drive —		
Drive:	C:		
Space available:	23824 MB		
Oustom size:			
Initial size (MB):	1536		
Ma <u>×</u> imum size (MB):	2048		
C System managed :	size		
C No paging file			Set
Total paging file size f	or all drives —		
Minimum allowed:	2 MB		
Recommended:	1533 MB		
Currently allocated:	1536 MB		
		ок	Cancel

In the Custom Size box, enter the following values:

Initial size (MB): is 1.5 times your RAM Maximum siz (MB): is 2.0 times your RAM Click the Set button. A reboot of the computer is required.

# 4. Adjust Windows for Best Performance

Open control Panel and click on System.



System Properties				
System Restore Auto General Computer Name	omatic Updates   Remote     Hardware   Advanced			
	System: Microsoft Windows XP Professional Version 2002 Service Pack 2 Registered to: WS1 Gage 55274-640-1429327-23979 Computer: Intel(R) Pentium(R) 4 CPU 2.40GHz 2.39 GHz (1.00 GB of RAM)			
	OK Cancel Apply			

The RAM totals is shown on the General tab.

Note the amount of RAM as circled above.

To set the virtual RAM, click on the Advanced tab.

System Properties	;			? >		
System Resto	re	Automatic Up	odates	Remote		
General	Computer	Name   I	Hardware	Advanced		
General       Computer Name       Hardware       Advanced         You must be logged on as an Administrator to make most of these changes.       Performance         Visual effects, processor scheduling, memory usage, and virtual memory       Settings         User Profiles       Desktop settings related to your logon						
			_	<u>og</u> ango		
Startup and Red	Startup and Recovery					
System startup,	system failun	e, and debuggin	g information	Settings		
Environment Variables Error Reporting						
		OK	Cancel	Apply		

Click on the Settings button in the Performance section.

Performance Options ? 🗙
Visual Effects Advanced Data Execution Prevention
Select the settings you want to use for the appearance and performance of Windows on this computer.
C Let Windows choose what's best for my computer
O Adjust for best appearance
O Adjust for best performance
Custom:
<ul> <li>Fade or silde menus into view</li> <li>Fade out menu items after clicking</li> <li>Show shadows under menus</li> <li>Show shadows under mouse pointer</li> <li>Show shadows under mouse pointer</li> <li>Show window contents while dragging</li> <li>Silde open combo boxes</li> <li>Silde taskbar buttons</li> <li>Smooth edges of screen fonts</li> <li>Smooth-scroll list boxes</li> </ul>
OK Cancel Apply

Click on Custom and check the box for Smooth Screen Fonts.

Click OK and OK again. The settings will change and return to the desktop.

### 5. Windows KB873333

http://www.microsoft.com/downloads/details.aspx?FamilyId=A0E59D77-8AC1-4AC0-9572-A7E1C2E4A66A&displaylang=en

## 6. Windows KB908531

http://www.microsoft.com/downloads/details.aspx?FamilyId=392C2F1B-AA24-48E5-8D5B-EA56341DB936&displaylang=en

## 7. Defrag

Click on Start | Accessories | System Tools | Defragmentation |

😵 Disk Defragmente	2r					
<u>File A</u> ction <u>V</u> iew	<u>H</u> elp					
$\leftarrow \rightarrow   \blacksquare   \textcircled{2}$						
Volume	Session Status	File System	Capacity	Free Space	% Free Space	
(C:)		NTFS	37.26 GB	21.76 GB	58 %	
Estimated disk usage	before defragmentation:					
Estimated disk usage after defragmentation:						
Analyze Defragment Pause Stop View Report						
Fragmented files 🗧 Contiguous files 🛄 Unmovable files 🗌 Free space						

Click on the Defragment button.

## 8. Google Toolbar

http://toolbar.google.com/T4/index\_pack.html

## 9. Adaware

http://www.download.com/Ad-Aware-2007-Free/3000-8022\_4-10045910.html?part=dl-ad-aware&subj=dl&tag=top5

click on the Download Now button

## 10. Spybot

http://www.safer-networking.org/en/mirrors/index.html