Spring-Clean Your Machine

How and Why to Remove Unwanted Files and Programs

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Introductory Notes

- Slides have rather a lot of text -
 - -so that your can refer to them as your notes
- Tasks are graded we look at easy tasks first, tricky ones later

Reasons To Remove Stuff

- You have run out of disk space
- Your machine takes forever to boot up
- Your machine runs slowly

Things You Can Do - 1 Assuming that your machine is NOT infected

- Remove "Dust Bunnies" using CCleaner
- Remove redundant registry entries using CCleaner
- Remove programs you don't use

- Remove surplus Restore
 Points using Disk Cleanup
- Remove redundant
 Windows Uninstal files
- Remove browser "barnicles"

Things You Can Do - 2 Assuming that your machine is NOT infected

- Turn off Start-up programs
- Clean and de-fragment the hard disk drive using Disk
 Cleanup
- Clean and de-fragment the registry
- Format the hard disk drive and re-install Windows
 (This takes a very long time and has a few pit-falls. It is usually necessary to backup all your data FIRST)

If Your Machine is Infected - 1

Disinfecting your computer is not within the scope of this presentation

- *Try* to update your security programs
 - virus definitions (fingerprints)
 - o the whole program
- Clean with CCleaner
- Scan with your primary security programs (antivirus first - antispyware next)
- Scan with a second and third antispyware program

If Your Machine is Infected - 2

Disinfecting your computer is not within the scope of this presentation

- *Note: Malware infection may have:
 - blocked access to your protection program updates
 - disabled your protection program
 - disabled task manager
 - disabled Windows Update
- Try using:
 - HijackThis
 - Autoruns
- Install ONLY ONE antivirus program
- Consider using an online scanning service (eg Panda or Trend Micro)

Using CCleaner to Remove "Dust Bunnies"

CCleaner is a FREE program that is easy to install and use

Download from: http://www.ccleaner.com

The site provides plenty of help in using the program

Suggestions:

Beginners - Use only the Cleaner tab (top tab) use both

- Windows and
- Applications sections
- These two are very safe (little risk)

Advanced Users - Use the registry cleaner and be sure to use the built-in backup feature. Then go round this "loop" again until there are no further issues.







CCleaner.com v2.08.588

MS Windows XP SP3
Intel Pentium M processor 1.50GHz, 1.0GB RAM, Mobile Intel 915GM/GMS,910GML Express Chipset Family





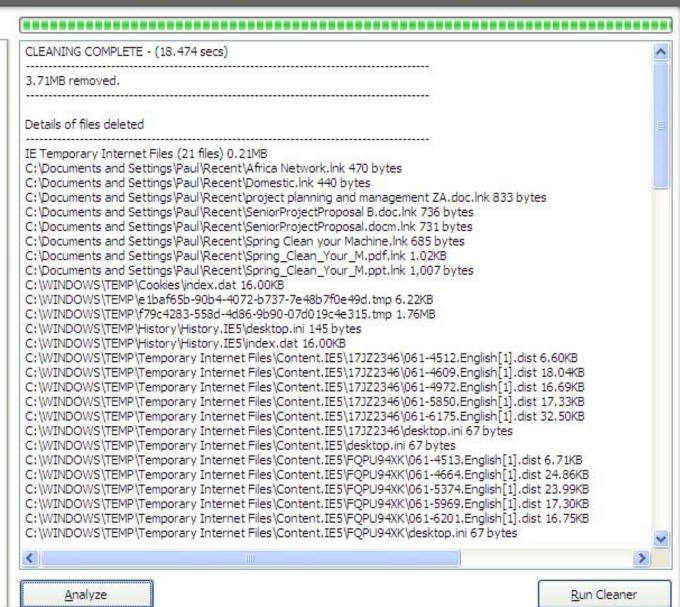








Custom Files and Folders



Removing Programs You Don't Use

This means removing legitimate (not malware) programs

Go to the Control Panel (If Vista switch to Classic view)

- In XP select Add and Remove Programs
- In Vista select Programs and Features
 - Select Detail View and add columns used and last used + +
 - Click selected program then click Uninstall
 - Repete as necessary

6.57MB

Size



Change or Remove Programs







Set Program Access and Defaults

Foxit Reader

Currently installed programs: Sort by: Name Show updates Access Help 2.02MB Size Click here for support information. To change this program or remove it from your computer, dick Change/Remove. Change/Remove Ad-Aware 49.04MB Size Adobe Flash Player 10 ActiveX Adobe Flash Player 10 Plugin Agilix GoBinder Lite Size 56.43MB Alias SketchBook Pro 1.1.1 9.82MB Size Apple Mobile Device Support 40.00MB Size Apple Software Update 2.16MB Size AVG 8.5 30.70MB Size Bonjour Size 0.48MB Broadcom Management Programs 3,49MB Size Buzan's iMindMap V4 267.00MB CCleaner (remove only) Size 1.25MB Compatibility Pack for the 2007 Office system Size 95.51MB M DiagramStudio 5.4 23.50MB Size eB Eazy Backup 4 19.77MB Size Everything 1.1.4.301 1.03MB Size Pingerprint Tutorial 9.10MB Size Folder Size for Windows Size 0.20MB

Remove Surplus Restore Points (preview)

Restore Points (registry backups) Can consume up to 12% (XP) 15% (Vista) of your hard disk drive space (Min 300MB Vista) To change settings:

XP - Go to Start -> Help and Support -> System Restore -> System Restore Settings

Vista - Go to Start -. Help and Support -> Security and Maintenance -> Backup and Restore (Backup your files -> "Click to open Backup and Restore Center"

To Clean-up see next slide

Remove Surplus Restore Points (How-To)

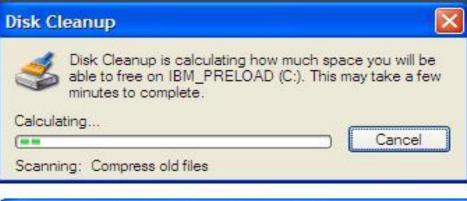
XP - Go Start -> Run -> Type into the box "cleanmgr" (no quotation marks) box and wait..

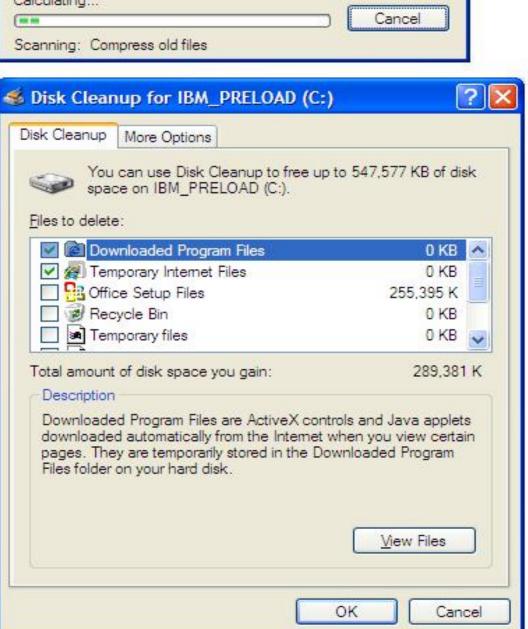
Vista - Go Start and Type into the box "cleanmgr" (no quotation marks) and wait ...

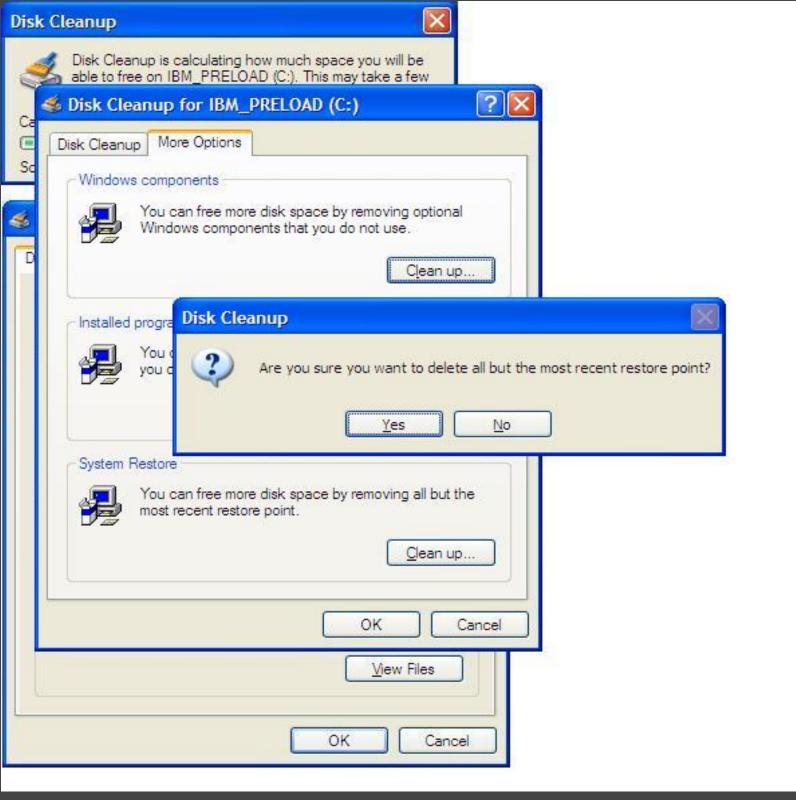
In the window that appears,

- select More Options ->
- in System Restore click Cleanup...
- then answer Yes

Note: This windows also gives access to two other cleanup areas: Installed programs and Windows Components (Also see defragment)







Remove Windows ntUninstall files

If you know that you will not need to uninstall any of the (many) Windows Updates that you have made, you can remove the uninstall files and potentially free-up several GB of disk space.

Doug Knox Utilities can do this but:

The best option is to run <u>CCleaner</u>, which can remove all sorts of unwanted files. Versions after v1.27.260, released on February 14, now include Windows HotFix Uninstaller cleaning.

If you want to do this, you will need to check boxes in the Advanced options and in doing so, answer a few pop-up questions - (Use Google to find answers)







CCleaner.com v2.08.588

MS Windows XP SP3

Intel Pentium M processor 1.50GHz, 1.0GB RAM, Mobile Intel 915GM/GMS,910GML Express Chipset Family











Tools



Options

Windows Applications
✓ Internet Explorer
▼ Temporary Internet Files
Cookies
History
Recently Typed URLs
✓ Delete Index.dat files
✓ Last Download Location
Autocomplete Form History
✓ Windows Explorer
✓ Recent Documents
Run (in Start Menu)
✓ Search Autocomplete
Other Explorer MRUs
✓ System
Empty Recycle Bin
▼ Temporary Files
Clipboard
Memory Dumps
✓ Chkdsk File Fragments
✓ Windows Log Files
Start Menu Shortcuts
Desktop Shortcuts
✓ Advanced
☑ Old Prefetch data
Menu Order Cache
Tray Notifications Cache
Window Size/Location Cache
User Assist History
☑ IIS Log Files
Hotfix Uninstallers
Custom Files and Folders

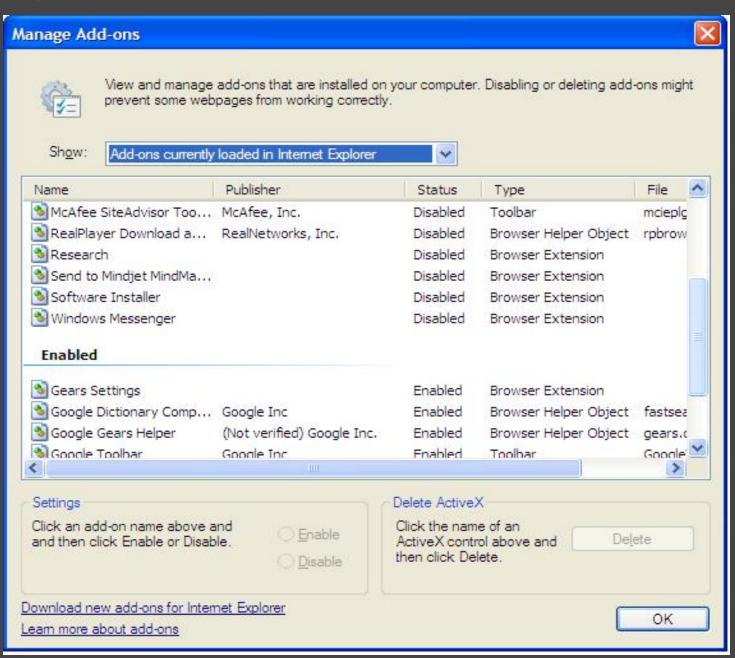


Remove Browser "Barnicles"

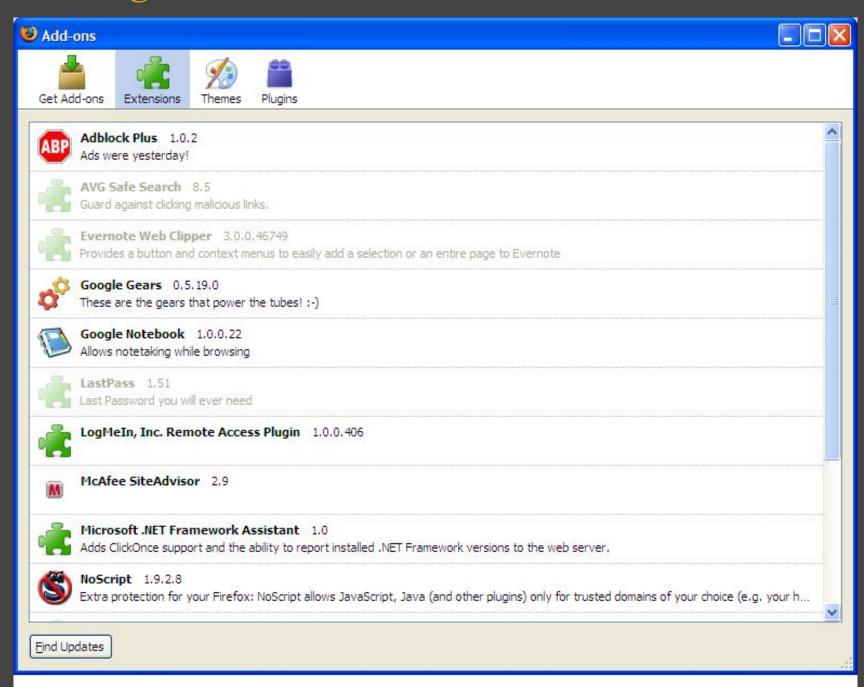
Barnicles (my term) for extra programs that get added to browers to make them "better" such as Tool bars.

- Internet Explorer calls them: Add-Ons
 - Go to Tools -> Manage Add-ons
 - This opens a window where you can
 - Enable, Disable, or Delete
- Firefox calls them: Add-ons, Extensions, Plug-ins
 - Go to Tools -> Add-ons
 - This opens a window where you can select a tab for
 - Get Add-ons, Extensions, Themes or Plugins ->
 - Enable, Disable, or Delete

Manage Internet Explorer Addons



Manage Firefox Add-ons



Manage Startup Items (there are lost of them)

Upon installation, many applications configure themselves to start automatically when you log on. Applications do this so that they can:

- automatically check for updates
- use system tray icons to interact with users
- add functionality to Windows components such as Windows Explorer.

However, most such applications don't ask permission before inserting themselves in your logon process and almost never provide an interface to let you disable their autostart functionality

Startup Control Panel (free) allows you to disable and re-enable these startup items

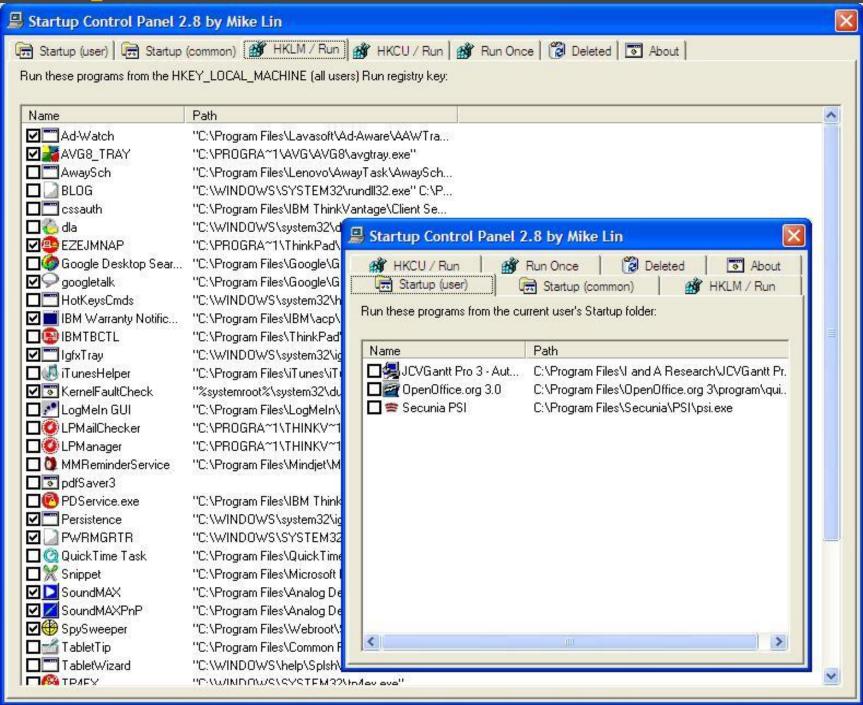
Some Choices to Manage Startup Items

Very full featured. Not for the feint hearted

** = Recommended

```
**Startup Control Panel (free)
    Very popular and has been in use for many years
**WinPatrol (free and paid-for versions)
    Has many other tools in addition to Startup control
Windows Defender (free download from MS)
    This program is recommended by Microsoft
CCleaner (free)
    This popular cleaning tool is not recommended for managing startup
    items (search the web for the complicated reasons)
Autoruns (free)
```

Startup Control Panel

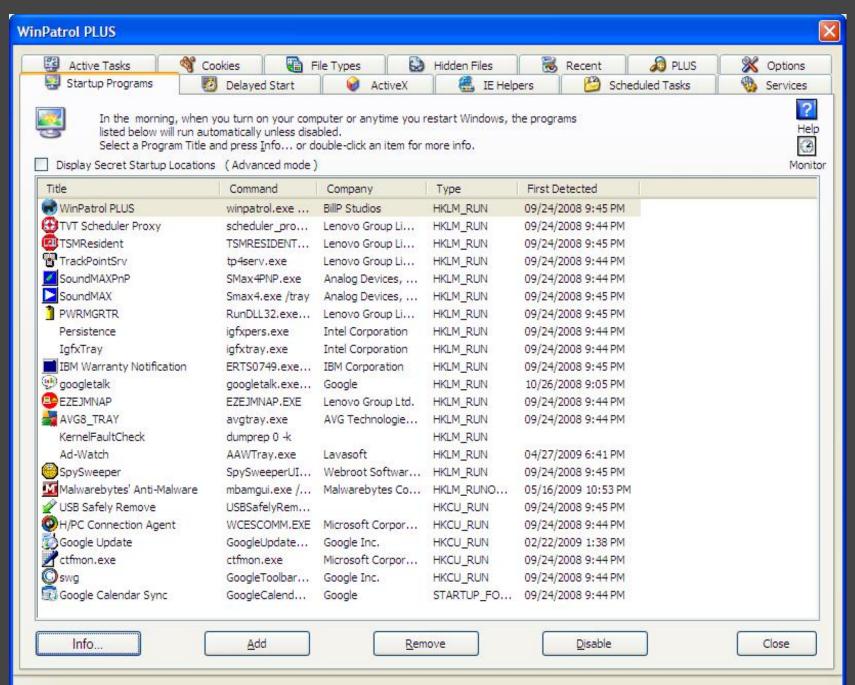


WinPatrol (Free version available)

A more comprehensive and user-friendly tool than Startup Control Panel is **WinPatrol**

- Winpatrol (free) gets very good reviews and provides several tools including the tool to manage startup programs
- WinPatrol PLUS (\$29.99) also includes access to an online database that answers many of the questions like:
- "What does the file IGFXSRVC.DLL do? and do I need it?"
- To compare free and PLUS see:
- http://www.winpatrol.com/compare.html?download

$\mathbf{WinPatrol}^{\dagger}$



Sources of Information on file purpose

Google.com

ProcessLibrary.com dllinformation.com

LiUtilities.com

Greatis.com
BleepingComputer.com

Note of Caution

- If you disable a startup item using the previous tools, some programs will attempt to re-insert themselves into the startup list whenever you next decide to run the program by clicking its icon. (eg. AOL)
- There is a danger of "complications" if you uninstall a program that has had it entry in a startup location disabled or deleted.
 - This opinion is Web "gossip" ie not exactly an authoritative source.
- If you find files with random /unverifiable file names, it's an indication that your machine is infected with malware

Clean and Defragment the Hard Disk Drive

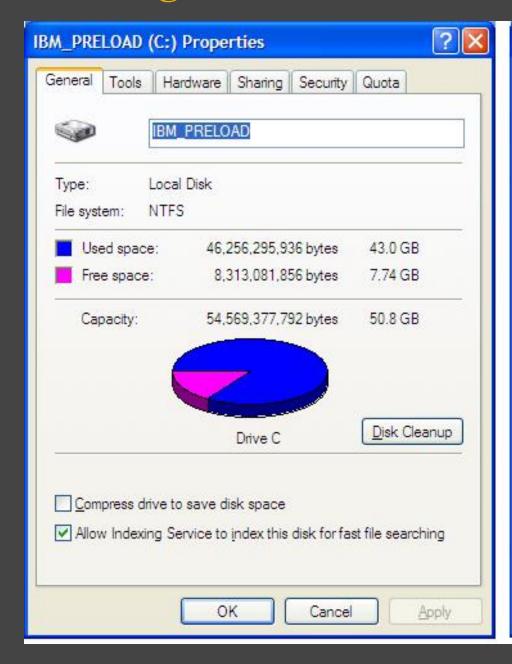
There is an on-going debate over the efficacy of "defragging" the hard drive. If you want to do this:

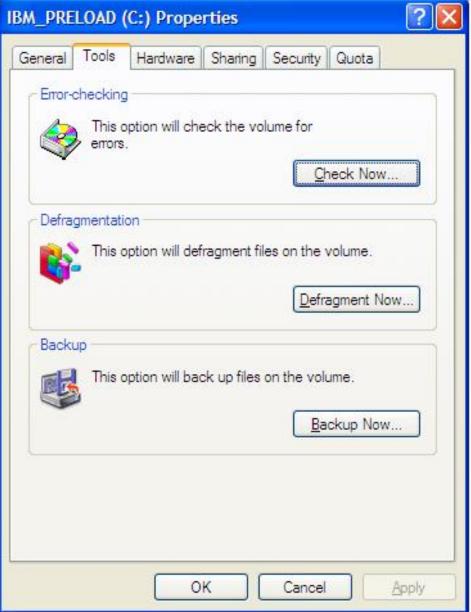
Open My Computer -> Right-click C: drive -> select Properties

In the window that appears,

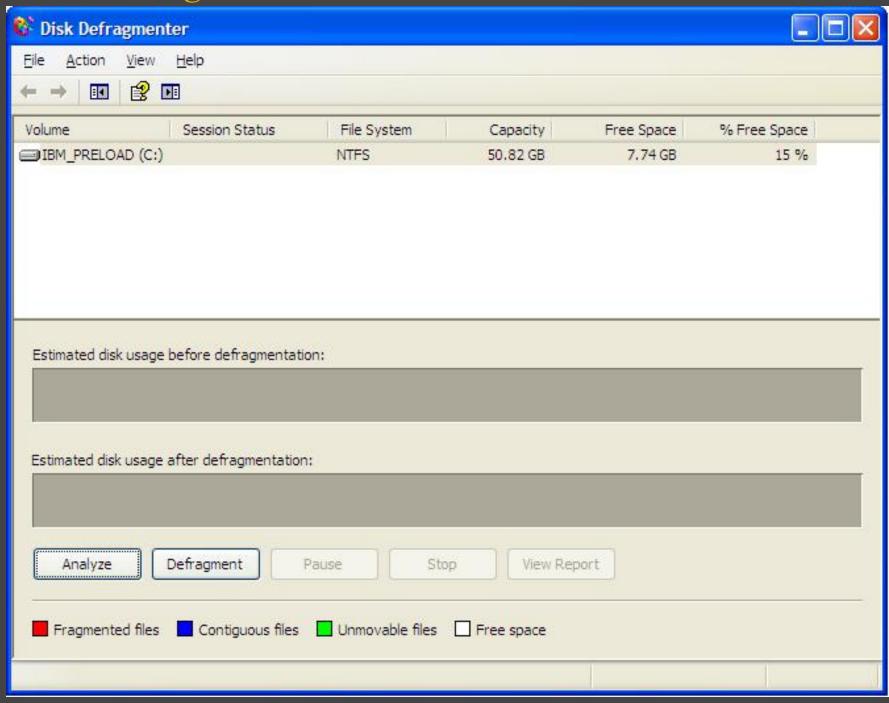
- select the Tools tab
- select Defragment now
- In the window that appears select the c: drive
- click Defragment
- retire for the evening
- in the morning, see if you notice any difference;-)

Defragment the C: drive

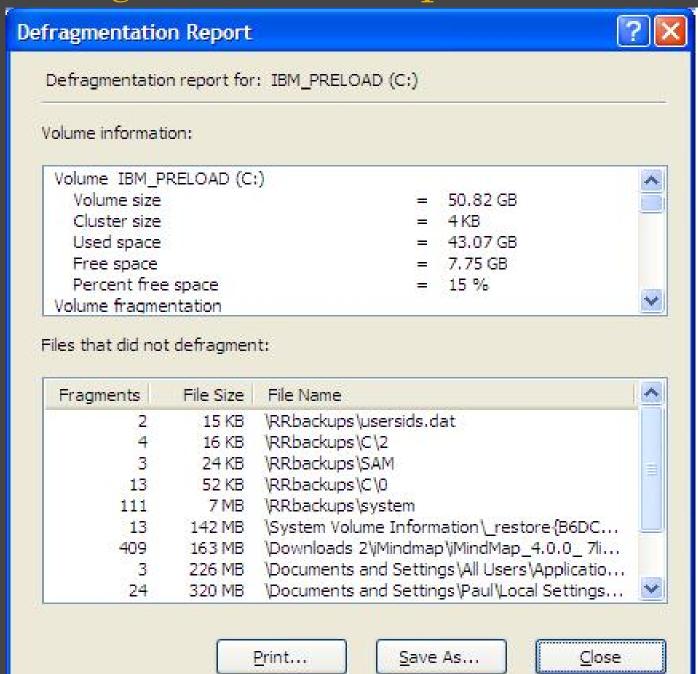




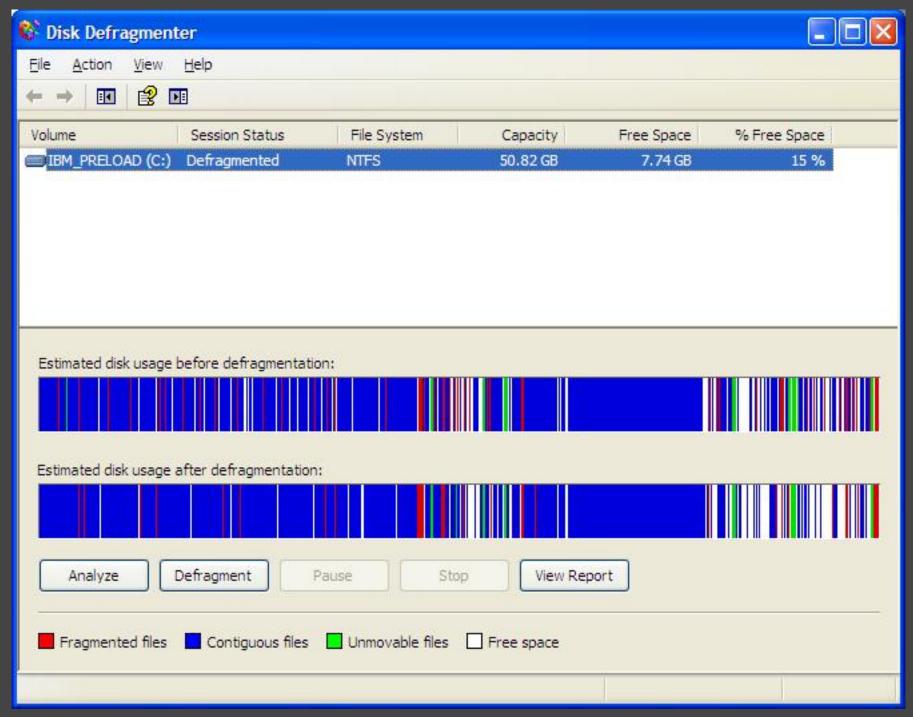
Disk Defragmenter



Defragmentation Report



Disk Defragmenter - after defrag operation

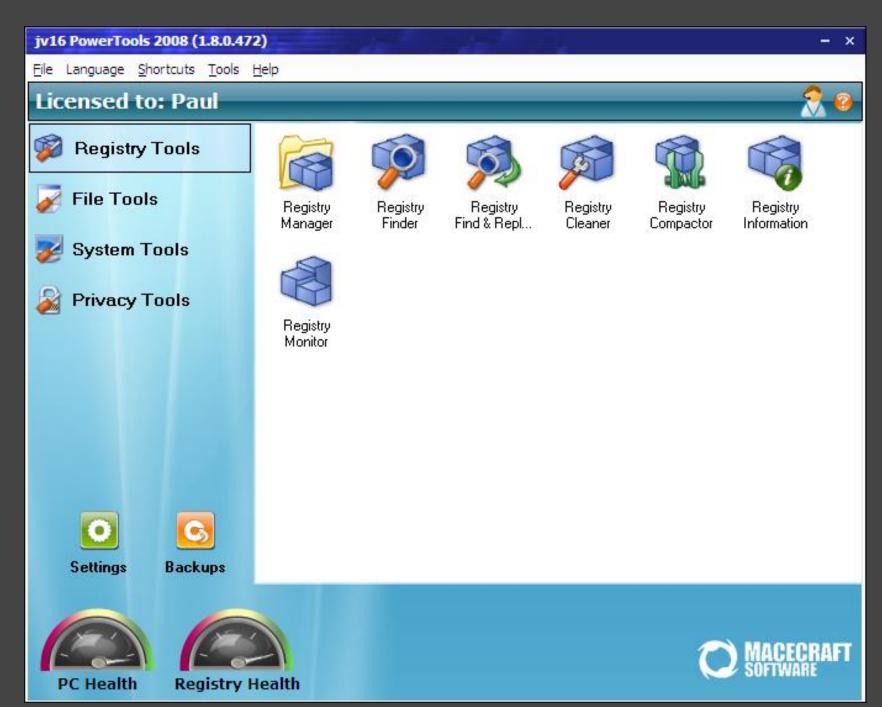


Meddling with the Registry

The usual advice is "Meddle with the registry at you own risk" If you want to do this:

- Use the registry section of CCleaner and be sure to use the backup facility built into CCleaner
- Numerous programs are available to clean and optimise the registry. Seek advice elswhere ;-)
- Try jv16 Power Tools. This is a full-featured application.

j16 Power Tools by Macecraft



References

Microsoft References

For more information about how to modify the startup programs for Windows XP Professional, click the following article number to view the article in the Microsoft Knowledge Base:

314488 (http://support.microsoft.com/kb/314488/) How to modify the Group Policy for programs that run at user logon on a computer that is running Windows XP

For more information about other startup issues with Windows XP, click the following article numbers to view the articles in the Microsoft Knowledge Base: 147381 (http://support.microsoft.com/kb/147381/) How to use system policies on a stand-alone computer

<u>179365</u> (http://support.microsoft.com/kb/179365/) Run, RunOnce, RunServices, RunServicesOnce and Startup