

# SPEED UP XP

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*XP\_SpeedUp.lwp*

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1. **VIRUS & SPYWARE:** Run all available Anti-virus and Anti-malware programs: For details, see my ANTI-MALWARE TOOLS & TIPS sheet. (In additions to a good Anti-Virus scan, be sure to include: a Windows Defender scan, a MSRT scan, and a Onecare Live Protection Scan [Online scan] as described in my article called: "Free Anti-Malware Tools From Microsoft").
2. **REMOVE BROWSER ADD-ONS & 3rd PARTY TOOLBARS:** Remove all un-needed toolbars, add-ons and plug-ins from Firefox and IE. (*Some are removed in the browser and others are removed from Add/Remove Programs.*)
3. **MOVE LARGE FILES OFF OF THE DESKTOP:**
  - a. Large files actually located on the desktop can slow down the boot time as well as regular operations. Large files should never be located on the desktop. This includes program files and data files. Moving files off of the Desktop can make a big difference because some users are in the habit of storing everything on the Desktop
  - b. Basically, the Desktop should have nothing on it but Shortcuts and Folders with Shortcuts in them.
  - c. Move any files to either the "My Documents" folder or to a folder on the C Drive root: (IE: C:\data). Then you can put shortcuts on the Dekstop to those files or programs.
  - d. To see the size of the Desktop folder, go to (C:\Documents and Settings\*UserName*). Right-click the "Desktop" folder then Properties. It should be under about 2 MB. Yes, 2 MB.
  - e. Along with this, you should never download files to the Desktop. It is too easy to forget and leave them there.
4. **REMOVE ALL DESKTOP SEARCH TOOLBARS:** Including Google Desktop, MSN Desktop, Copernic Desktop, etc. (*Control Panel > Add/Remove Programs*).
5. **REMOVE ALL UNNECESSARY SOFTWARE:** (*Control Panel > Add/Remove Programs*).
6. **DISABLE UNNECESSARY "BACKGROUND" PROGRAMS, PROCESSES, & SERVICES:**
  - a. For details on how to disable Start-up programs and proceses, see my XP TIPS sheet in a section called STARTUP PROGRAMS & SERVICES MANAGEMENT.
  - b. UNNECESSARY STARTUPS: Eliminate un-needed programs that start-up during boot. I recommend using a utility called "Codestuff Starter" or other startup manager utilities. ): <http://www.snapfiles.com/get/starter.html> . (*I do NOT recommend using "MSCONFIG"*). Warning: On the "Startups" Tab, there is a startup listed that has no name and no description. Do not disable this entry or Windows will not boot. Unless you are experienced, stay away from the "Processes" & "Services" tabs.
  - c. UNNECESSARY SERVICES: If you dare, you can try disabling un-needed Services. See this link for info on disabling non-critical Windows Services: [www.blackviper.com](http://www.blackviper.com) .
7. **RAM:** Make sure you have at least 1 GB of RAM installed. Even more, if you use memory intensive programs like Photoshop. (*Right-click My Computer > Properties > General Tab*).
8. **HARD-DRIVE SPACE:** Make sure Hard-drive "C:" has plenty of "Free-space". When Drive "C:" gets too full, XP will run slow, boot slow, and crash a lot. XP needs lots of room for Temporary files. Microsoft says at least 15% of drive C should be free and available for XP and program needs. One emergency way to get some quick space is to disable "Hibernate".
9. **VIRTUAL MEMORY:** (*Control Panel > System > Advanced Tab, "Performance", click <Settings> button > "Performance Options" window > Advanced Tab*). Under "Virtual Memory", click <Change>. If

you have added RAM to the system since XP was installed, the virtual settings are probably wrong. XP only detects the RAM amount during the XP install.

- a. Verify that either Item 1 or Item 2 is set up properly:
  - 1) Select " Custom size": with the Initial size set to a value of 1½ times the physical RAM size (in MB's) and the Maximum size set to 3 times the physical RAM size (in MB's) (*IE: with 512 RAM: Initial size = 768 & Maximum size = 1536*) Warning: You MUST click the <Set> button for the change to take.
  - 2) Select " System managed size".
- b. If you have a second physical hard-drive, you can speed up XP by using it for the Virtual memory paging file. On the Virtual Memory Window, select it for the paging file location.

#### 10. SYSTEM RESTORE AND OTHER RESTORE PROGRAMS:

- a. A PC should only be running one Restore program. Running "XP System Restore" along with other restore programs like Norton "GoBack" will slow down the PC dramatically. Plus, it is a big waste of hard-drive space since both programs reserve and use a lot of drive space. Make sure only one "Restore" Program is running. If you are using Norton GoBack, you should disable Windows "System Restore".
- b. In general, System Restore only needs to be monitoring Drive "C:" unless there are system files on other drives. This is unlikely. XP's default settings is to monitor all available drives including external drives. You can turn off the monitoring of all drives except Drive C in the System Restore settings: (*Start > All Programs > Accessories > System Tools > System Restore > System Restore Settings*).
- c. If there is a second physical hard-drive in the PC, you can put all User data on that second drive. Then turn off System Restore on the second drive to speed up processing. The "My Documents" folder can even be relocated to a drive other than "C:".

11. **SPEED vs VISUAL EFFECTS:** (*Control Panel > System > Advanced Tab, "Performance", click <Settings> button*). The fewer visual effects, the faster XP will run. On the "Performance Options" window > Visual Effects Tab, uncheck all boxes except: " Use Common Tasks in Folders", " Use Drop Shadows for Icon labels". Optionally check " Use visual styles on windows and buttons" to allow the blue "FisherPrice" taskbar and window dressings. (*Note: It is normal for the radio button to end up on " Custom" after you check the boxes. **WARNING: Any changes here will reset all your Visual Properties back to default.** (Right-click on Desktop > Properties > Appearance Tab > click the Advanced button to re-customize).*)

#### 12. HARD DRIVE OPTIMIZATIONS:

- a. **INDEXING:** For best speed, turn off indexing for all Hard-Drives. (*X represents your hard-drive letter*).
  - 1) (*My Computer > right-click Drive X: > Properties > General Tab*). Un-check the box: " Allow indexing Service." Choose: " Disable on all folders and subfolders", " Apply changes to X: Subfolders & files". (Respond "Ignore All" to any "Access denied" messages)
  - 2) Indexing Service: (*Control Panel > Administrative Tools > Services*). Double-click Indexing Service and change the Startup type to "Disabled".
- b. **ERROR-CHECK:** Run on all your hard-drives: (*My Computer > right-click Icon for Drive X: > Properties > Tools Tab*). Then, under Error-checking, click <Check Now>. Choose  Automatically fix errors &  Scan for and attempt recovery of bad sectors. On Drive C, you will have to restart the PC and the scan will run during the boot.
- c. **CCLEANER:** Run the CCLEANER Utility to remove un-needed Files & Registry entries.
- d. **DEFRAG:** Defragment all hard drives once or twice a year.

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- 1) Before doing a defrag, do the following tasks: a) Empty the Recycle Bin; b) Compact all Mail Folders; c) Set the Power Options > Power scheme to "Always On"; d) Disable "Hibernate". e) Make sure you have run CCleaner; f) Do a System Restart; g) Continue with the next step.
- 2) Do the Defrag: (*My Computer > Right-click Drive X: > Properties > Tools Tab > Defragment Now button > Defragment button.*) (Actually, I prefer the "JKDefrag" Utility)
- 3) If there are a lot of scattered unmovable files, run the Microsoft "Page Defrag" Utility.
- 4) "Glary Utilities": Run the Registry Clean module and then the Registry Defrag module.
- e. **SPINRITE**: If available, run the SpinRite program on each hard-drive. NOTE: Hardware errors can slow down a system and no error indications. (\$90.00) <http://www.grc.com/cs/repurch.htm>
13. **MALWARE MONITORING PROGRAMS**: Most Anti-malware programs constantly monitor for changes on all the hard drives. Some programs like Windows Defender allow you to specify that certain drives NOT be monitored. If you have data-only drives, you can choose to not have them monitored, thus speeding up the system overall.
14. **EVENT VIEWER**: If XP successfully recovers from errors they are never reported to you, XP just runs slower. Look in the Event Viewer to see if any errors are occurring and fix the cause.: (*Right-click My Computer > Manage > Event Viewer > System, then Application*).
15. **CPU TEMPERATURE HOT**: Many CPU's will throttle down when overheating, and this slows down the PC's performance. Verify temperatures either with a utility program like "SpeedFan" or look in the BIOS. Clean dust from all fans, heatsinks, grills, & the power supply.
16. **SPEED UP THE "LOG-OFF"/"SHUTDOWN" TIME**: Install a Windows service called "User Profile Hive Cleanup Service" from:  
<http://www.microsoft.com/downloads/details.aspx?FamilyId=1B286E6D-8912-4E18-B570-42470E2F3582&displaylang=en>
17. **LAPTOP CPU PERFORMANCE**: Laptops frequently have a setting to slow CPU speed to save battery power. If you are plugged in, it should run at full speed. You can override the settings for battery power and make it run full speed all the time, but it will drain the battery faster. (*Try going to Control Panel > Power Options > Advanced settings*). Every laptop is different, so I cannot guide you further.
18. **SPEED UP YOUR MAIL**: The larger your mail system, the slower your mail runs. This will not speed up XP but will speed up your mail:
  - a. **Compact Mail Folders**:
    - **THUNDERBIRD**: File > Compact Folders
    - **OUTLOOK**: Right-click Personal Folders > Properties > Advanced > Compact Now
    - **OUTLOOK EXPRESS**: File > Folder > Compact All Folders
  - b. **Archive Old Mail**:
    - **THUNDERBIRD**: See the "THUNDERBIRD TIPS" on my site at [www.jimopi.net](http://www.jimopi.net)
    - **OUTLOOK**: [http://email.about.com/od/outlooktips/qt/et\\_archive\\_mail.htm](http://email.about.com/od/outlooktips/qt/et_archive_mail.htm)
    - **OUTLOOK EXPRESS**: The only free option seems to be this Utility. (I have not tried it):  
<http://www.expressarchiver.com/download/ExpressArchiverLite.exe>
19. **LAST RESORT**: Reinstall Windows from scratch.

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