

## Upgrading to a New Version

- Preparing to Upgrade
  - Is upgrade necessary and/or desirable
    - Performance increase
    - New software requires updated OS
    - When to upgrade
      - New version of OS often not as reliable
      - Beta version of software should not be used on Beta OS
  - Necessary hardware and software to perform upgrade
    - Memory requirements
    - CPU speed
    - Disk space
    - Are other devices compatible
      - NIC
      - Scanners
      - Printers
      - Sound cards
      - Display devuces
    - Drivers compatible
  - Gather system information required
  - Backup current system and data
    - Essential
    - Upgrade can change configuration files
    - Make sure you have software to restore backups
      - Test to make sure
      - Make sure appropriate files are on the backup
    - Backup location
      - Tape
      - 2<sup>nd</sup> hard drive on same machine
      - network drive
  - Maybe perform test upgrade
- Test Upgrade
  - Beneficial
    - If upgrading more than one machine
      - Authors suggested 5 or more
  - Choose
    - Machine close to machines being upgraded
    - Lowest common denominator
      - CPU
      - Hard disk size
      - Memory
      - Devices connected
    - Connect to network if in network environment
  - use as production machine after upgrade

- take exact notes on each step in upgrade
- let someone else or uses a similar configured computer use the system
- can require a week or longer
- specific OS Upgrades
  - DOS
    - Fairly simple
    - Backup key files
    - Need formatted disks
      - For uninstall disks
      - Created by upgrade
    - Some versions of BACKUP and RESTORE incompatible between OS version changes
      - Add DEVICE=SETVER.EXE to config.sys
      - DOS prompt
        - SETVER RESTOE.EXE x.x where x.x OS version
  - Windows 95
    - Backup/restore program of Windows 95 not compatible with DOS and Windows 3.1
    - Verify CD-ROM Driver works
    - Pressing F8 key during booting OS get boot selection menu
      - Can choose DOS
    - Never replace DLL with older version from upgrade
      - Especially true of MFC\*.dll files
        - Microsoft Foundation Class
        -
    - Some application do not port from Windows 3.1 and DOS to Windows 95
  - Windows 98
    - Upgrading from Windows 95 to 98, not of the same degree of difficulty as upgrading to Windows 3.1 or DOS to Windows 95
    - Backup Registry
      - System.dat
      - User.dat
    - Be careful about replacing DLLs
      - Never overwrite MFC\*.dll
    - Takes time to find all devices and load correct drivers
      - Never interrupt
    - Internet to get latest changes to OS
  - Windows NT
    - Only from server 35.1 to 4.0 and workstation 3.51 to 4.0
    - Backup critical
    - 4.0 restore cannot read 3.51
      - buy 3<sup>rd</sup> party package that works in both
        - Cheyenne ARCServe
    - Need new drivers, incompatible between versions
    - Change from FAT to NTFS during upgrade

- UNIX System V
  - Backup utility
    - Dump
      - Backup to local device or across network
    - Configuration files in /etc
      - rc startup scripts
      - inittab file
      - hosts file
      - disktab or vfstab files
    - files in /usr/local/etc
    - can restart an upgrade if update fails