**UNIX Commands**

**Ten ESSENTIAL UNIX Commands**

These are ten commands that you really need to know in order to get started with UNIX. They are probably similar to commands you already know for another operating system.

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| **Command** | **Example** | **Description** |
| 1.     **ls** | ls ls -alF | Lists files in current directory List in long format |
| 2.     **cd** | cd tempdir  cd ..  cd ~dhyatt/web-docs | Change directory to tempdir  Move back one directory  Move into dhyatt's web-docs directory |
| 3.     **mkdir** | mkdir graphics | Make a directory called graphics |
| 4.     **rmdir** | rmdir emptydir | Remove directory (must be empty) |
| 5.     **cp** | cp file1 web-docs  cp file1 file1.bak | Copy file into directory Make backup of file1 |
| 6.     **rm** | rm file1.bak  rm \*.tmp | Remove or delete file Remove all file |
| 7.     **mv** | mv old.html new.html | Move or rename files |
| 8.     **more** | more index.html | Look at file, one page at a time |
| 9.     **lpr** | lpr index.html | Send file to printer |
| 10.   **man** | man ls | Online manual (help) about command |

**Ten VALUABLE UNIX Commands**

Once you have mastered the basic UNIX commands, these will be quite valuable in managing your own account.

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| **Command** | **Example** | **Description** |
| 1.     **grep <str><files>** | grep "bad word" \* | Find which files contain a certain word |
| 2.     **chmod <opt> <file>** | chmod 644 \*.html  chmod 755 file.exe | Change file permissions read only Change file permissions to executable |
| 3.     **passwd** | passwd | Change passwd |
| 4.     **ps <opt>** | ps aux  ps aux   **|**   grep dhyatt | List all running processes by #ID List process #ID's running by dhyatt |
| 5.     **kill <opt> <ID>** | kill -9 8453 | Kill process with ID #8453 |
| 6.     **gcc (g++) <source>** | gcc file.c -o file  g++ fil2.cpp -o fil2 | Compile a program written in C Compile a program written in C++ |
| 7.     **gzip <file>** | gzip bigfile  gunzip bigfile.gz | Compress file  Uncompress file |
| 8.     **mail         (pine)** | mail me@tjhsst.edu **<** file1  pine | Send file1 by email to someone  Read mail using pine |
| 9.     **telnet <host>          ssh <host>** | telnet vortex.tjhsst.edu  ssh -l dhyatt jazz.tjhsst.edu | Open a connection to vortex Open a secure connection to jazz as user dhyatt |
| 10.   **ftp <host>  ncftp <host/directory>** | ftp station1.tjhsst.edu  ncftp metalab.unc.edu | Upload or Download files to station1  Connect to archives at UNC |

**Ten FUN UNIX Commands**

These are ten commands that you might find interesting or amusing. They are actually quite helpful at times, and should not be considered idle entertainment.

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| **Command** | **Example** | **Description** |
| 1.     **who** | who | Lists who is logged on your machine |
| 2.     **finger** | finger | Lists who is on computers in the lab |
| 3.     **ytalk <user@place>** | ytalk dhyatt@threat | Talk online with dhyatt who is on threat |
| 4.     **history** | history | Lists commands you've done recently |
| 5.     **fortune** | fortune | Print random humerous message |
| 6.     **date** | date | Print out current date |
| 7.     **cal <mo> <yr>** | cal 9 2000 | Print calendar for September 2000 |
| 8.     **xeyes** | xeyes & | Keep track of cursor (in "background") |
| 9.     **xcalc** | xcalc & | Calculator ("background" process) |
| 10.   **mpage <opt> <file>** | mpage -8 file1   **|**  lpr | Print 8 pages on a single sheet and send to printer (the font will be small!) |

**Ten HELPFUL UNIX Commands**

These ten commands are very helpful, especially with graphics and word processing type applications.

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| **Command** | **Example** | **Description** |
| 1.     **netscape** | netscape & | Run Netscape browser |
| 2.     **xv** | xv & | Run graphics file converter |
| 3.     **xfig / xpaint** | xfig & (xpaint &) | Run drawing program |
| 4.     **gimp** | gimp & | Run photoshop type program |
| 5.     **ispell <fname>** | ispell file1 | Spell check file1 |
| 6.     **latex <fname>** | latex file.tex | Run LaTeX, a scientific document tool |
| 7.     **xemacs / pico** | xemacs (or pico) | Different editors |
| 8.     **soffice** | soffice & | Run StarOffice, a full word processor |
| 9.     **m-tools (mdir, mcopy,          mdel, mformat, etc. )** | mdir a: mcopy file1   a: | DOS commands from UNIX (dir A:) Copy file1 to A: |
| 10.   **gnuplot** | gnuplot | Plot data graphically |

**Ten USEFUL UNIX Commands:**

These ten commands are useful for monitoring system access, or simplifying your own environment.

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| **Command** | **Example** | **Description** |
| 1.     **df** | df | See how much free disk space |
| 2.     **du** | du -b subdir | Estimate disk usage of directory in Bytes |
| 3.     **alias** | alias lls="ls -alF" | Create new command "lls" for long format of ls |
| 4.     **xhost** | xhost + threat.tjhsst.edu xhost - | Permit window to display from x-window program from threat Allow no x-window access from other systems |
| 5.     **fold** | fold -s file1   **|**   lpr | Fold or break long lines at 60 characters and send to printer |
| 6.     **tar** | tar -cf subdir.tar subdir tar -xvf subdir.tar | Create an archive called subdir.tar of a directory Extract files from an archive file |
| 7.     **ghostview (gv)** | gv filename.ps | View a Postscript file |
| 8.     **ping    (traceroute)** | ping threat.tjhsst.edu traceroute www.yahoo.com | See if machine is alive Print data path to a machine |
| 9.     **top** | top | Print system usage and top resource hogs |
| 10.   **logout (exit)** | logout or exit | How to quit a UNIX shell. |