



### Basic UNIX commands

|  |  |
|--|--|
| <b>Man <i>command</i></b><br>Directory-Related     | How to use the specified command   |
| <b>ls <i>option</i></b><br><b>Option -l</b>        | Lists files in the current directory<br>Shows permissions                                |
| <b>pwd</b>   | Shows the current working directory  |
| <b>cd <i>pathname</i></b>                          | Changes the current working directory to the specified pathname                          |
| <b>mkdir <i>name</i></b>                           | Makes a new directory with the specified name under the current directory                |
| <b>rmdir <i>name</i></b><br>File-Related           | Deletes the directory with the specified name  |
| <b>cat <i>filename</i></b>                         | Displays the contents of specified filename to the screen                                |
| <b>cp <i>oldfile newfile</i></b>                   | Copies specified old file to specified new file  |
| <b>mv <i>file1 file2</i></b>                       | Moves specified first file to specified second file. Can also be used for renaming files |
| <b>rm <i>filename</i></b><br>Advanced File-Related | Deletes the specified file   |
| <b>du -ak <i>file</i></b>                          | Tells how much space the specified file takes up in kilobytes                            |
| <b>file <i>filename</i></b>                        | Displays the file type of the specifies file   |
| <b>find <i>path condition</i></b>                  | Can find files in the specified path using the specified conditions                      |
| <b>grep <i>option "text" file</i></b>              | Can find the specified text in the specified file  |
| <b>head -n <i>file</i></b>                         | Displays the first specified number of lines (where n=number) from specified file        |
| <b>tail -n <i>file</i></b>                         | Displays the last specified number of lines (where n=number) from specified file         |
| <b>more <i>file</i></b>                            | Views the specified file one screen at a time  |
| <b>vi <i>file</i></b>                              | Opens the specified file in VI Editor (see separate help sheet)                          |
| <b>wc <i>file</i></b><br>Miscellaneous             | Counts the number of lines, words and characters in the specified file                   |
| <b>who</b>   | Lists names of users currently logged on   |
| <b>ps <i>option</i></b>                            | Shows processes running (can also use <i>jobs-l</i> )                                    |
| <b>kill -9 <i>proclD</i></b>                       | Terminates process using its process ID number   |
| <b>ftp <i>host</i></b>                             | Transfer files between you an the specified host   |
| <b>date</b>  | Lists the current date and time  |
| <b>mail <i>user</i></b>                            | Sends mail to the specified user <Ctrl-D> to end   |
| <b>logout</b>                                      | Logs you off   |

### Changing File Permissions

**chmod [*permissions*] *file (or directory)***      The permissions are broken down into 3 digits as follows: **4**-read, **2**-write, **1**-execute. Each digit is determined by adding the values for each permission you want to give.

Example: **chmod [owner][group][others] *file***

Give read-write-execute permissions to owner, read-execute permissions to group and read only to other:

**chmod 754 *file***

### Useful Keystrokes

|               |   |
|---------------|---|
| <b>Ctrl h</b> | Deletes last character (backspace)            |
| <b>Ctrl c</b> | Stops current process                         |
| <b>Ctrl \</b> | Stops current process and creates a core dump |
| <b>Ctrl d</b> | EOF – End Of File                             |
| <b>Ctrl u</b> | Deletes current line back to prompt           |
| <b>Ctrl w</b> | Deletes previous word                         |



### Changing Your Password

**passwd** Prompts user for old password and then their new password

#### When choosing a password, please:

Do pick a password:

- Between 6 to 8 characters
- Using both upper and lower cases
- Using digits and special characters
- That is easy to remember
- You can type quickly

Do Not pick a password:

- That is the same as your login name
- That is your first or last name in any form
- That uses your spouse's or child's name
- From other info easily obtained (street address, telephone #, etc.)
- Using all digits or all the same letter
- That is a word contained in any dictionary

### Logging on to the Library

**rlogin host** Lets you connect to a remote system

You can connect to any system in your **.rhosts** file without typing a password.

If you want to connect to the library catalogue, the *host* is: **laurel.iso.missouri.edu** Login: **library**

If you want to connect to the library periodicals database, the *host* is: **merlin.missouri.edu** Login: **library**

### Printing from UNIX

**lpr -Ptxroom filename** Prints the specified filename to the printer in the specified room in text format

**lpr -Ppsroom filename** Prints the specified filename to the printer in the specified room in postscript format

Note: *room* designates where you want your document printed to. See list of rooms below:

**lpr -Ptsss103 file.ex** Prints to the main lab in SSB 103

**lpr -Ptxbh232 file.ex** Prints to the main lab in Benton Hall 232

**lpr -Ptxtj316 file.ex** Prints to the main lab in the Thomas Jefferson Library Research Commons

**lpr -Ptxcc107 file.ex** Prints to the classroom in CCB 107

### Special Characters

|              |   |
|--------------|---|
|              | Pipe – takes the output of the command on the left and forces it into the command on the right. |
| >            | Captures output into a file that follows  |
| <            | Redirects input from a file   |
| >>           | Adds output to an existing file   |
| &            | Ending a command line with <b>&amp;</b> will run it in the background                           |
| *            | Wildcard – matches zero or more characters  |
| ?            | Wildcard – matches one character  |
| !!           | Recalls last command typed  |
| ! <i>x</i>   | Recalls last command starting with <i>x</i>   |
| !:- <i>n</i> | Recalls 0 to <i>n</i> parts from last command (counting from 0 to 9)                            |
| !\$          | Recalls last part of previous command   |