HOW-TO-DO ESSENTIALS (all you need to start in one page)

q = quit mail

Unix: You need to know about a dozen commands to function in any operating system. Unix commands are short and mnemonic and very natural. Most of them take various -flags to modify their action. In general, command -h shows the usage (syntax) and man command will tell you more than you want to know! Here is a list of the essential commands: ls = listcp = copymv = move, rename cd = change dirrm = remove (delete)lpr = print filevi = visual editor (the standard Unix editor, see below) more = display a file page-by-page mkdir = make dirrmdir = remove dirman = manual (help) on a command chmod = change mode of file (set permissions) logout = log off the machine ssh = log on to another machine (secure shell)scp = (secure cp) copy files between machines refers to home dir, . to current dir, . . to parent dir. There are hundreds of other commands, type: xman to see! vi Editor: There are many commands and customizations for vi editor. These are the most essential. vi filename starts vi on the file, you'll be in command mode ZZ write (save) and exit :q! quit (exit) without saving h, i, k, 1 move cursor left, down, up, right H to top of page L to bottom of page ^F page forward ^B page backward 1G to top of file G to bottom of file i insert ...ESC a append (after cursor) ...ESC o open new line ...ESC O open new line above cursor...ESC x delete character dw delete word dd delete line Zip/Unzip: Best compress/archive utility. (zip file.zip file1 file2 file3, unzip file.zip). Useful flags: zip -oyz file.zip file1 file2 file3 preserves date, skips links, asks for comment zip -oyz9mr dirname.zip dir also -m: deletes zipped files -r: recurses into subdir's unzip -1 file.zip lists the zipped files Run a Fortran / C code: The standard input/output device is the screen, unless redirected. gfortran code.f90 compile Fortran code.f90 and produce executable a.out (gcc code.c to compile code.c) a.out will read and write to the screen, but a.out < dat will read from "dat" and write to screen a.out < dat > out will read from "dat" and write to "out". Plotting: Simplest, nicest (and free) plotting tool ever is: gnuplot Start gnuplot with: gnuplot, then do: help plot, help set Everything is on line, nothing to remember !!! Try this: gnuplot> plot [-4:4] sin(pi*x), cos(pi*x/2) with points You can get a Windows version for your PC from http://ftp.gnuplot.info/pub/gnuplot/ X Windows: Each window is an "xterm", emulating a terminal. A window manager (such as gnome) manages all the windows and the mouse. Can be customized. The greatest thing about X is that you can run on a remote machine and display its output on your screen! We'll learn how... Email: (too primitive by today's standards, but simple and always availabe) mail <Enter> invokes local mail. Commands within "mail" (at \$ prompt): h = headers (current msg is indicated by > in 1st column) p = print current msg on the screen r = reply to the current msgd = delete current msgs = save current msg to a filer = read a file into msg (when composing a msg) v = vi the current msg