Introduction to Linux	
9-6-2002	
Opening Discussion	
■ What did we talk about last class?	
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Command Line	
The Unix family of operating systems is based on the concept of a command line	
interface. While graphical interfaces have been put on top of this, most people who	
work with them use the command line. With the command line you type in the	
names of programs you want to execute along with a list of arguments to them.	
The program executes in your "current directory".	

Directory Commands

- Is Lists the contents of the current directory. Can be followed by a path or many different display options.
- cd Change the current directory to the path specified.
- pwd Stands for present working directory.
- mkdir makes a directory
- rmdir removes and empty directory

Some File Commands

- rm Remove the specified file. Can include "wild cards".
- mv Move the file in the first arg to the location of the second.
- cp Copy the file in the first arg to the location of the second.
- more, less print the contents of a file.
- vi An editor for text files, including programs.

Other Helpful Commands

- top Shows the most active processes sorted in order of CPU usage and other info.
- ps Lists processes. The -ef option shows info on everything.
- kill Kills a process. You provide the PID. Use the -9 option for a "bigger hammer".
- grep Searches in files for a string of text.

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I/O Redirection and Piping

- One of the powerful tools that you can use in Linux is the ability to redirect input and output.
- The "<" and ">" symbols can be used to cause input to come from a file or output to go to a file.
- The "|" pipes the output of one program to be the input of another program.

Manual Pages

- One of the most useful commands in Linux is man. You can type man followed by any Linux command to see a description of what it does and the options it can take.
- It also have a -k option that allows you to search for keywords in the short descriptions of all commands.
- C library routines are in man as well.

Rebooting Machines

- Because Linux boxes are truly multi-user platforms, people can be using them without physically sitting in front of them. You should check for this before you reboot.
- who, w, users These all provide listing of who is logged onto the machine.
- top, uptime Show usage. If there are things running taking a lot of CPU time odds are good someone wants them running.

Minute Essay

- Write the commands you would use to make a directory called "Backup", copy the file prog.c into it, then go into that directory and display the contents of the file
- Keep in mind that you can give me any feedback you want in these essays.
- Before next class I will post the first assignment and notify you.