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File/directory commands:

sample usage

cd	<i>change directory</i>	cd bin	cd ~/2350/hw	cd
chgrp	<i>change group ownership</i>	chgrp appm2350 index.html		
chmod	<i>change permissions</i>	chmod 664 myfile.html		
cp	<i>copy file(s)</i>	cp thisfile newfile	cp file* subdir/	
ls	<i>list files</i>	ls -l	ls -alrt *.html	
mkdir	<i>make new directory</i>	mkdir 2005fall		
mv	<i>move/rename file(s)</i>	mv a.out ProgramE	mv file* subdir/	
pwd	<i>present working directory</i>	pwd		
rm	<i>remove/delete file(s)</i>	rm -i *.aux	rm -rf subdir/	
rmdir	<i>delete empty directory</i>	rmdir 1999fall		

Editing, Email, Documentation:

sample usage

emacs	<i>text editor</i>	emacs mythesis.tex		
vi	<i>text editor</i>	vi mythesis.tex		
nedit	<i>text editor</i>	nedit mythesis.tex		
pico	<i>text editor</i>	pico mythesis.tex		
pine	<i>email</i>	pine		
mailx	<i>email</i>	mailx	mailx smith@hotmail.com	
latex	<i>compiles DVI document</i>	latex mythesis.tex		
pdflatex	<i>compiles PDF document</i>	pdflatex mythesis.tex		

Remote login and file copying:

sample usage

scp	<i>copy between computers</i>	scp myfile amath.colorado.edu:subdir/file8		
sftp	<i>copy between computers</i>	sftp		
ssh	<i>log onto remote computer</i>	ssh amath.colorado.edu -l username		

Text filters:

sample usage

cat	<i>display text contents</i>	cat file1.txt file2.txt file3.txt		
grep	<i>find word/string</i>	grep keyword file1 file2 file3		
head	<i>display first few lines</i>	head -5 file.txt		
more	<i>display 20 lines at a time</i>	more file.txt		
sort	<i>re-order text lines</i>	sort -r -n file.txt		
spell	<i>find misspelled words</i>	spell file.txt		
tail	<i>display last few lines</i>	tail -5 file.txt		
wc	<i>word count</i>	wc file.txt	cat *.tex wc	

Other Utilities:

sample usage

man	<i>manual page</i>	man ls	man -k editor	
cal	<i>calendar</i>	cal	cal 12 2005	
date	<i>current date/time</i>	date		
du	<i>total size of directory</i>	du -k sort -n		
echo	<i>print to screen</i>	echo "This is great stuff."		
look	<i>suggest words</i>	look stri		

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Process control:

sample usage

file	<i>type of file</i>	file *
jobs	<i>in current shell</i>	jobs
kill	<i>stop process</i>	kill 23098 kill -9 23098
nice	<i>process priority</i>	nice ./a.out
ps	<i>list processes</i>	ps -ef sort more
which	<i>command filename</i>	which netscape

Customizing:

sample usage

alias	<i>command shortcut</i>	alias dir '/bin/ls -al \!* more'
finger	<i>user identity</i>	finger smith finger @newton
passwd	<i>change password</i>	passwd
set	<i>variables</i>	set path=(\$path /usr/local/tex/bin)
setenv	<i>variables</i>	setenv TEXHOME /usr/local/tex
w who whoami	<i>user identities</i>	w who whoami

Compilers and file utilities:

sample usage

cc c++ gcc g++	<i>C and C++ compilers</i>	cc -o myprogram progA.c
f77 f90 f95	<i>Fortran compilers</i>	f90 -o myprogram progA.f90
diff	<i>line-by-line difference</i>	diff file1.txt file2.txt
strings	<i>text embedded in binary</i>	strings a.out
tar	<i>archiving files</i>	tar cf myarchive.tar file1 file2 dir3 dir4
gzip	<i>compress file</i>	gzip myarchive.tar
gunzip	<i>uncompress file</i>	gunzip myarchive.tar.gz

SYNTAX:

sample usage

&	<i>run in background</i>	nice ./a.out &
>	<i>redirect to file</i>	nice ./a.out > results.out &
>>	<i>append to file</i>	nice ./a.out >> more.out &
<	<i>input from file</i>	nice ./a.out < input.dat > results.out &
 	<i>pipe to another program</i>	cat *.dat more
;	<i>separates commands</i>	./a.out < input1.dat ; ./a.out < input2.dat ; ls
\$VARIABLE	<i>variables</i>	set ; echo \$PATH
* and ?	<i>wildcard characters</i>	ls *.tex ; ls a* ; ls *.??? ; ls file?.txt
!! \$!	<i>last command, last word</i>	echo "!!"

FILES:

what the file is for

~/.cshrc	<i>initialization file</i>	define shell variables and aliases
~/.login	<i>initialization file</i>	set 1-time login information
~/.ssh/known_hosts	<i>ssh keys file</i>	keys accepted from other hosts; sometimes needs editing