

Unix Reference Card

A helpful reference to Unix commands on the CECS Unix computers.



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Program descriptions followed by **[packageName]** indicate which package the program is located in.

Packages

Packages configure the user's environment based on what software he/she wants to use.

There are several convenient user commands used to maintain the software package configuration. Once configured, the system will transparently update your environment based on selected packages every time you log in.

Make sure you log out and back in for any changes you make to your packages environment to take effect.

Commands:

<code>addpkg</code>	Adds program package to users environment
<code>delpkg</code>	Deletes program package from users environment
<code>listpkg</code>	Lists program packages currently in users environment

Special Command Line Characters

<code>></code>	Redirect standard output to the file; erase the file first
<code>>></code>	Redirect standard output to the file; append to the file
<code><</code>	Redirect standard input from the file
<code> </code>	Pipe the standard output from one command to the next
<code>?</code>	Single character wildcard
<code>*</code>	Multiple character wildcard
<code>[...]</code>	One of ... wild card
<code>;</code>	Command separator
<code>.</code>	Current directory
<code>..</code>	Parent directory
<code>/</code>	Directory level separator
<code>&</code>	Run command in the background
<code>\$</code>	Begin shell variable name
<code>=</code>	Shell variable assignment

Filename Expansion Characters

<code>*</code>	Matches any characters (0 or more)
<code>?</code>	Matches any single character
<code>[...]</code>	matches any character in the enclosed list or range

Control Sequences

<code>ctrl-c</code>	Cancel the process that is currently running.
<code>ctrl-d</code>	Exit the UNIX session
<code>ctrl-l</code>	Re-draws the screen
<code>ctrl-q</code>	Resume display scrolling
<code>ctrl-s</code>	Pause display scrolling
<code>ctrl-u</code>	Delete the current line
<code>ctrl-z</code>	Suspend a foreground process

Web Tools

<code>htpasswd</code>	Password protect web pages
<code>bluefish</code>	Graphical html Editor [gnu]

Mail Tools

<code>elm</code>	Sends and displays mail messages
<code>mailx</code>	Sends and displays mail messages
<code>mutt</code>	Sends and displays mail messages
<code>pine</code>	Sends and displays mail messages
<code>xbiff</code>	Displays a mailbox and flag image on an X window when mail has arrived

Text Editors

<code>emacs</code>	Text Editor
<code>gvim</code>	Graphical version of vim
<code>pico</code>	Text Editor
<code>vi</code>	Text Editor
<code>vim</code>	vi improved - Text Editor
<code>xedit</code>	Simple Graphical Text Editor
<code>xemacs</code>	Graphical version of emacs [gnu]

Text Processing Tools

<code>cat</code>	Concatenate (list) a file
<code>cut</code>	Displays specified parts from each line of a file
<code>dos2unix</code>	Convert text file from DOS format to UNIX format
<code>head</code>	List the beginning of a file
<code>ispell</code>	Spelling checker
<code>less</code>	Similar to more, but allows backward movement
<code>more</code>	List a file page by page
<code>nroff</code>	Formats text
<code>paste</code>	Joins corresponding lines of several files or subsequent lines in one file
<code>tail</code>	List the end of a file
<code>unix2dos</code>	Convert text file from UNIX format to DOS format

Postscript and Acrobat

File Utilities

<code>acroread</code>	Acrobat Reader (.pdf)
<code>ghostview</code>	Ghostscript interpretive previewer
<code>gs</code>	Ghostscript interpretive previewer
<code>ps2pdf</code>	Convert postscript file to a pdf file [gnu]

General Commands

at	Runs a command at a particular time
cd	Change working directory
checkpasswd	Change your UNIX password
chmod	Change file permissions
convert	Converts an input file using one image format to an output file with a differing image format
cp	Copy a file
date	Display today's date
diff	Find file differences
display	Displays many graphic formats on X windows
du	Summarize disk usage
echo	Evaluate and print command line
exit	Leave the UNIX session
export	Make shell environment variable available
fg	Move a background job to the foreground
file	Classify the file contents
find	Find files meeting specified conditions
finger	Display information about local and remote users
ftp	Transfer files from one host to another
gnuplot	GNU interactive plotting program [gnu]
grep	Search a file for a pattern
head	Display first few lines of files
kill	Terminate a process
ln	Link to a file
logout	C shell logoff
ls	List directory contents
make	Used to build programs and maintain up-to-date versions of target files
man	View documentation of a command
mkdir	Create a directory
msgs	View departmental and system messages
mv	Move or rename a file
myquota -v	View your disk quota usage
new-env	Restore the default shell and window environment to your account
nice	Invoke a command with an altered scheduling priority

passwd	Change your UNIX password
ps	Display process status
pwd	Print working directory
renice	Alter priority of running processes
rm	Remove files
rmdir	Remove a directory
rxvt	X window terminal emulator
set	Read and write variables
show	Show (list) messages
sort	Sort files
ssh	Connect to a remote host
strings	Finds strings in an ASCII or binary file
tail	Display last few lines of files
talk	Interactive talking to another user
tin	Network news reader
top	Display and update information about the cpu processes
touch	Update the date of a file
tr	Translate characters
uniq	Removes or lists repeated lines in a file
uptime	Shows how long a system has been up
w	List current system activity
wc	Word count
who	List who is on the system
xcalc	Scientific calculator for X windows
xclock	X window clock
xterm	X window terminal emulator



Image Viewing And Manipulation

gimp	Versatile windowing image program (Similar to Adobe Photoshop) [image-toolz]
xpaint	Gui window paint program [image-toolz]
xv	Interactive image display for X windows

Printing

lpq -P printerName	Check the print queue
lpr -P printerName fileName	Print a file
lprm -P printerName jobNumber	Remove a job from the print queue
enscript -P printerName fileName	Convert a text file to postscript

Compressing And Uncompressing Files

bunzip2	Uncompress files (.bz2)
bzip2	Compress files (.bz2)
compress	Compress files (.Z)
gunzip	Uncompress (expand) files (.gz)
gzcat	GNU compression/decompression program (.gz)
gzip	Compress files (.gz)
tar	Saves and restores multiple files to a single file (.tar)
uncompress	Uncompress (expand) files (.Z)

Languages/Compilers/ Interpreters/Scripts

as	SPARC assembler
awk	Finds lines in files and makes specified changes to them
g++	GNU C ++ compiler
gawk	GNU's AWK programming language
gcc	GNU C compiler
lclint	Check C code for errors
perl	Practical Extraction and Report Language interpreted language optimized for scanning arbitrary text files



Debuggers

ddd	Graphical front-end for GDB and other command-line debuggers [gnu]
gdb	Source-level debugger for C, C++ and Fortran.
xxgdb	Gui front-end to gdb