Command	Description
• apropos whatis	Show commands pertinent to string.
man -t ascii   ps2pdf - > ascii.pdf	See also threadsafe make a pdf of a manual page
which command	Show full path name of command
time command	See how long a command takes
time cat	Start stopwatch. Ctrl- d to stop. See also sw
lir navigation	a to brop. bee also bu
cd -	Go to previous directory
cd	Go to \$HOME directory
(cd dir && command)	Go to dir, execute command and return to current dir
pushd .	Put current dir on stack so you can popd back to it
File searching	+
alias l='ls -1color=auto'	quick dir listing
ls -lrt	List files by date. See also newest and find mm yyyy
ls /usr/bin   pr -T9 -W\$COLUMNS	Print in 9 columns to width of terminal
find -name '*.[ch]'   xargs grep -E 'expr'	Search 'expr' in this dir and below. See also findrepo
find -type f -print0   xargs -r0 grep -F 'example'	Search all regular files for 'example' in this dir and below
find -maxdepth 1 -type f   xargs grep -F 'example'	Search all regular files for 'example' in this dir
find -maxdepth 1 -type d   while read dir; do echo \$dir; echo cmd2; done	Process each item with multiple commands (in while loop)
find -type f ! -perm -444	Find files not readable by all (useful for web site)
find -type d ! -perm -111	Find dirs not accessible by all (useful for web site)
locate -r 'file[^/]*\.txt'	Search cached index for names. This re is like glob *file*.txt
look reference	Quickly search (sorted) dictionary for prefix
grepcolor reference /usr/share/dict/words	Highlight occurances of regular expression in dictionary
rchives and compression	
gpg -c file	Encrypt file
gpg file.gpg	Decrypt file
tar -c dir/   bzip2 > dir.tar.bz2	Make compressed archive of dir/
bzip2 -dc dir.tar.bz2   tar -x	Extract archive (use gzip instead of bzip2 for tar.gz files)

tar -c dir/   gzip   gpg -c   ssh user@remote 'dd of=dir.tar.gz.gpg'	Make encrypted archive of dir/ on remote machine
find dir/ -name '*.txt'   tar -cfiles-from=-   bzip2 > dir_txt.tar.bz2	Make archive of subset of dir/ and below
find dir/ -name '*.txt'   xargs cp -atarget-directory=dir_txt/paren	Make copy of subset of dir/ and below
( tar -c /dir/to/copy )   ( cd /where/to/ && tar -x -p )	Copy (with permissions) copy/ dir to /where/to/ dir
( cd /dir/to/copy && tar -c . )   ( cd /where/to/ && tar -x -p )	Copy (with permissions) contents of copy/ dir to /where/to/
( tar -c /dir/to/copy )   ssh -C user@remote 'cd /where/to/ && tar -x -p'	Copy (with permissions) copy/ dir to remote:/where/to/dir
dd bs=1M if=/dev/sda   gzip   ssh user@remote 'dd of=sda.gz'	Backup harddisk to remote machine
rsync (Network efficient file copier: Use thedry-run option for testing	
rsync -P rsync://rsync.server.com/path/to/file file	Only get diffs. Do multiple times for troublesome downloads
rsyncbwlimit=1000 fromfile tofile	Locally copy with rate limit. It's like nice for I/O
rsync -az -e sshdelete ~/public_html/ remote.com:'~/public_html'	Mirror web site (using compression and encryption)
rsync -auz -e ssh remote:/dir/ . && rsync -auz -e ssh . remote:/dir/	Synchronize current directory with remote one
ssh (Secure SHell)	
ssh \$USER@\$HOST command	Run command on \$HOST as \$USER (default command=shell)
• ssh -f -Y \$USER@\$HOSTNAME xeyes	Run GUI command on \$HOSTNAME as \$USER
scp -p -r \$USER@\$HOST: file dir/	Copy with permissions to \$USER's home directory on \$HOST
scp -c arcfour \$USER@\$LANHOST: bigfile	Use faster crypto for local LAN. This might saturate GigE
ssh -g -L 8080:localhost:80 root@\$HOST	Forward connections to \$HOSTNAME:8080 out to \$HOST:80
ssh -R 1434:imap:143 root@\$HOST	Forward connections from \$HOST:1434 in to imap:143
ssh-copy-id \$USER@\$HOST	Install public key for \$USER@\$HOST for password-less log in
wget (multi purpose download tool)	
• (cd dir/ && wget -nd -pHEKk http://www.pixelbeat.org/cmdline.html)	Store local browsable version of a page to the current dir
wget -c http://www.example.com/large.file	Continue downloading a partially downloaded file
wget -r -nd -np -l1 -A '*.jpg' http://www.example.com/dir/	Download a set of files to the current
iges I no up II i iggs noup.,, www.enamples.com, cll.,	directory FTP supports globbing

wgetlimit-rate=20k url	dir priority (limit to n this case) nks in a file tly update a py of a site rom cron)  tus of interface
wgetlimit-rate=20k url 20KB/s  wget -nvspiderforce-html -i bookmarks.html 1	n (limit to n this case) nks in a file tly update a py of a site rom cron) tus of interface set ethernet e speed k status of
wget -nv -spider -force-html -i bookmarks.html  Wget -mirror http://www.example.com/  networking (Note ifconfig, route, mii-tool, nslookup commands are obsolete)  ethtool eth0	nks in a file tly update a py of a site rom cron)  tus of interface set ethernet e speed k status of
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ethtool—change etho autoneg off speed 100 duplex full  interfa Show li wireles wlan0  iw dev wlan0 set bitrates legacy—2.4 1  iw dev wlan0 scan  ip link show  ip link set dev eth0 name wan  ip link set dev eth0 up  ip addr show  ip addr add 1.2.3.4/24 brd + dev eth0  ip route show  ip route add default via 1.2.3.254  ss -tupl  ss -tupl  host pixelbeat.org  windows networking (Note samba is the package that provides all this windows specisupport)  smbtree  interfa  Manuall interfa  Rename to wan  in rang  List wi in rang  List ad interfa  Add (or mask (2  List ad interfa  Add (or mask (2  List in on a sy  List ac  connect system  Lookup hostname —i  whois pixelbeat.org  windows networking (Note samba is the package that provides all this windows specisupport)  smbtree  Find wi	e speed k status of
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• host pixelbeat.org  for nam  Lookup  address host `h  whois pixelbeat.org  windows networking (Note samba is the package that provides all this windows specisupport)  • smbtree	ons to/from
• hostname -i address host `host `ho	NS ip address or vice versa
windows networking (Note samba is the package that provides all this windows specisupport)  support  Find wi	ocal ip (equivalent to stname`)
windows networking (Note samba is the package that provides all this windows speci support)  Find wi	hois info for
•   cmhtraa	
See als	or ip address
nmblookup -A 1 2 3 4 (netbio	or ip address
	or ip address fic networking dows machines. findsmb windows ) name ed with ip
mount -t smbfs -o fmask=666, guest //windows_box/share /mnt/share Mount a	or ip address fic networking dows machines. findsmb windows name ed with ip
echo 'message'   smbclient -M windows_box   machine	or ip address fic networking dows machines. findsmb windows ) name ed with ip res on windows or samba windows share
text manipulation (Note sed uses stdin and stdout. Newer versions support inplace	or ip address fic networking dows machines. findsmb windows name ed with ip res on windows or samba windows share up to windows

sed 's/string1/string2/g'	Replace string1 with string2
sed 's/\(.*\)1/\12/g'	Modify anystring1 to anystring2
sed '/^ *#/d; /^ *\$/d'	Remove comments and blank lines
sed ':a; /\\\$/N; s/\\n//; ta'	Concatenate lines with trailing \
sed 's/[ \t]*\$//'	Remove trailing spaces from lines
sed 's/\([`"\$\]\)/\\1/g'	Escape shell metacharacters active within double quotes
$seq 10 \mid sed "s/' /; s/*\(.\{7, \}\)/\1/"$	Right align numbers
seq 10   sed p   paste	Duplicate a column
sed -n '1000{p;g}'	Print 1000th line
sed -n '10,20p; <u>20q</u> '	Print lines 10 to 20 Extract title from
sed -n 's/.* $\langle title \rangle (.* \rangle (/title \rangle .* / 1/ip; T; q$ '	HTML web page
sed -i 42d ~/.ssh/known_hosts	Delete a particular line
sort -tk1, 1n -k2, 2n -k3, 3n -k4, 4n	Sort IPV4 ip addresses
echo 'Test'   tr '[:lower:]' '[:upper:]'	Case conversion
tr -dc '[:print:]' < /dev/urandom	Filter non printable characters
tr -s '[:blank:]' '\t' <td>cut fields separated by blanks</td>	cut fields separated by blanks
history   wc -1	Count lines Concatenate and
seq 10   paste -s -d ' '	separate line items to a single line
et operations (Note you can export LANG= $\mathbb C$ for speed. Also these assume n file)	
sort file1 file2   uniq	<u>Union</u> of unsorted files
sort file1 file2   uniq -d	Intersection of unsorted files
sort file1 file2   uniq -u	<u>Difference</u> of unsorted files
sort file1 file2   uniq -u	Symmetric Difference of unsorted files
join <u>-t'\0'</u> -a1 -a2 file1 file2	Union of sorted files
join -t'\0' file1 file2	Intersection of sorted files
join -t'\0' -v2 file1 file2	Difference of sorted files
join -t'\0' -v1 -v2 file1 file2	Symmetric Difference of sorted files
ath	0.1
echo '(1 + sqrt(5))/2'   bc -1	Quick math (Calculate φ). See also bc
seq -f '4/%g' 1 2 99999   paste -sd-+   bc -1	Calculate $\pi$ the unix way
echo 'pad=20; min=64; (100*10^6)/((pad+min)*8)'   bc	More complex (int) e.g. This shows max FastE packet rate
echo 'pad=20; min=64; print (100E6)/((pad+min)*8)'   python	Python handles scientific notation
echo 'pad=20; plot [64:1518] (100*10**6)/((pad+x)*8)'   gnuplot -persist	Plot FastE packet rate vs packet size
echo 'obase=16; ibase=10; 64206'   bc	Base conversion (decimal to
echo \$((0x2dec))	hexadecimal)  Base conversion (hex to dec) ((shell arithmetic expansion))

units -t '100m/9.58s' 'miles/hour'	Unit conversion (metric to imperial)
• units -t '500GB' 'GiB'	Unit conversion ( <u>SI</u> IEC prefixes)
units -t '1 googol'	Definition lookup
seq 100   paste -s -d+   bc	Add a column of numbers. See also ad and funcpy
calendar • cal -3	Display a calendar
• cal 9 1752	Display a calendar f a particular month year
• date -d fri	What date is it this friday. See also day
• [ \$(date -d '12:00 +1 day' +%d) = '01' ]    exit	exit a script unless it's the last day of the month
• datedate='25 Dec' +%A	What day does xmas fall on, this year
• datedate='@2147483647'	Convert seconds sinc the epoch (1970-01-0 UTC) to date
• TZ='America/Los_Angeles' date	What time is it on west coast of US (us tzselect to find TZ)
• datedate='TZ="America/Los_Angeles" 09:00 next Fri'	What's the local tim for 9AM next Friday west coast US
locales	D. 1
• printf "%' d\n" 1234	Print number with thousands grouping appropriate to local
• BLOCK_SIZE=\'1 1s -1	Use locale thousands grouping in ls. See also l
echo "I live in `locale territory`"	Extract info from locale database
• LANG=en_IE.utf8 locale int_prefix	Lookup locale info f specific country. Se also ccodes
• locale -kc \$(locale   sed -n 's/\(LC\{4,\}\)=.*/\1/p')   less	List fields availabl in locale database
recode (Obsoletes iconv, dos2unix, unix2dos)	Show available
• recode -1   less	conversions (aliases on each line)
recode windows-1252 file_to_change.txt	Windows "ansi" to local charset (auto does CRLF conversion
recode utf-8/CRLF file_to_change.txt	Windows utf8 to loca charset
recode iso-8859-15utf8 file_to_change.txt	Latin9 (western europe) to utf8
recode/b64 < file.txt > file.b64	Base64 encode
recode /qp < file.qp > file.txt	Quoted printable decode
recodeHTML < file.txt > file.html	Text to HTML
• recode -lf windows-1252   grep euro	Lookup table of characters
echo -n 0x80   recode latin-9/x1dump	Show what a code represents in latin-charmap
echo -n 0x20AC   recode ucs-2/x2latin-9/x	Show latin-9 encoding
echo -n 0x20AC   recode ucs-2/x2utf-8/x	Show utf-8 encoding

gzip < /dev/cdrom > cdrom.iso.gz	Save copy of data cdrom
mkisofs -V LABEL -r dir   gzip > cdrom.iso.gz	Create cdrom image from contents of dir
mount -o loop cdrom.iso /mnt/dir	Mount the cdrom image at /mnt/dir (read only)
cdrecord -v dev=/dev/cdrom blank=fast	Clear a CDRW
gzip -dc cdrom.iso.gz   cdrecord -v dev=/dev/cdrom -	Burn cdrom image (use dev=ATAPI -scanbus to confirm dev)
cdparanoia -B	Rip audio tracks from CD to wav files in current dir
cdrecord -v dev=/dev/cdrom -audio -pad *.wav	Make audio CD from all wavs in current dir (see also cdrdao)
oggenctracknum=\$track track.cdda.wav -o track.ogg	Make ogg file from wav file
disk space (See also FSlint)	2220
• ls -1Sr	Show files by size, biggest last
• du -s *   sort -k1,1rn   head	Show top disk users in current dir. See also dutop
• du -hs /home/*   sort -k1, 1 <u>h</u>	Sort paths by easy to interpret disk usage
• df -h	Show free space on mounted filesystems
• df -i	Show free inodes on mounted filesystems
• fdisk -1	Show disks partitions sizes and types (run as root)
• rpm -q -aqf '%10{SIZE}\t%{NAME}\n'   sort -k1,1n	List all packages by installed size (Bytes) on rpm distros
• dpkg-query -W -f='\${Installed-Size;10}\t\${Package}\n'   sort -k1,1n	List all packages by installed size (KBytes) on deb distros
• dd bs=1 seek=2TB if=/dev/null of=ext3.test	Create a large test file (taking no space). See also truncate
• > file	truncate data of file or create an empty file
monitoring/debugging	
• tail -f /var/log/messages	Monitor messages in a log file
• strace -c ls >/dev/null	Summarise/profile system calls made by command
• strace -f -e open ls >/dev/null	List system calls made by command
• strace -f -e trace=write -e write=1,2 ls >/dev/null	Monitor what's written to stdout and stderr
• ltrace -f -e getenv ls >/dev/null	List library calls made by command
• <u>lsof</u> -p <u>\$\$</u>	List paths that
	process id has open List processes that
• lsof ~	have specified path open
• tcpdump not port 22	Show network traffic except ssh. See also

	tcpdump_not_me
ps -e -o pid, argsforest	List processes in a hierarchy
ps -e -o pcpu, cpu, nice, state, cputime, argssort pcpu   sed '/^ 0.0 /d'	List processes by % cpu usage
ps -e -orss=, args=   sort -b -k1, 1n   pr -TW\$COLUMNS	List processes by mem (KB) usage. See also ps_mem.py
ps -C firefox-bin -L -o pid, tid, pcpu, state	List all threads for a particular process
ps -p 1, \$\$ -o etime=	List elapsed wall time for particular process IDs
last reboot	Show system reboot history
free -m	Show amount of (remaining) RAM (-m displays in MB)
watch -n.1 'cat /proc/interrupts'	Watch changeable data continuously
udevadm monitor	Monitor udev events to help configure rules
system information (see also sysinfo) ('#' means root access is requir	ed)
uname -a	Show kernel version and system architecture
head -n1 /etc/issue	Show name and version of distribution
cat /proc/partitions	Show all partitions registered on the system
grep MemTotal /proc/meminfo	Show RAM total seen by the system
grep "model name" /proc/cpuinfo	Show CPU(s) info
<u>lspci</u> -tv	Show PCI info
lsusb -tv   mount   column -t	Show USB info List mounted filesystems on the system (and align output)
grep -F capacity: /proc/acpi/battery/BATO/info	Show state of cells in laptop battery
dmidecode -q   less	Display SMBIOS/DMI information
smartctl -A /dev/sda   grep Power_On_Hours	How long has this disk (system) been powered on in total
hdparm -i /dev/sda	Show info about disk sda
hdparm -tT /dev/sda	Do a read speed test on disk sda
badblocks -s /dev/sda	Test for unreadable blocks on disk sda
nteractive (see also linux keyboard shortcuts)	
readline	Line editor used by bash, python, bc, gnuplot,
screen	Virtual terminals with detach capability,
mc	Powerful file manager that can browse rpm, tar, ftp, ssh,
gnuplot	Interactive/scriptable graphing
links	Web browser open a file or url

• xdg-open .

with the registered desktop application

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