Command	Description
apropos whatis	Show commands pertinent to string. See also threadsafe
man -t ascii ps2pdf - > ascii.pdf	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
ir navigation	
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
le searching	The state of the s
alias I='Is -Icolor=auto'	quick dir listing. See also I
ls -Irt	List files by date. See also newest and find_mm_yyyy
Is /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	F
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/parents	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
sync (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
l · ·	Synomonize current directory with remote one
sh (Secure SHell)	Down a suppose of the ALICOT as ALICOT As ALICOT A
ssh \$USER@\$HOST command	Run command on \$HOST as \$USER (default command=sh
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 \$HOS
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:8
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
get (multi purpose download tool)	mistali public key for \$602 ft@\$ff601 for password less log
	Ctore lead brougable version of a page to the gurrent dir
(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 directory
wget ftp://remote/file[1-9].iso/	FTP supports globbing directly
wget -q -O- http://www.pixelbeat.org/timeline.html grep 'a href' head	Process output directly
echo 'wget url' at 01:00	Download url at 1AM to current dir
wgetlimit-rate=20k url	Do a low priority download (limit to 20KB/s in this case)
wget -nvspiderforce-html -i bookmarks.html	Check links in a file
wgetmirror http://www.example.com/	Efficiently update a local copy of a site (handy from cron)
wyciiiiiioi iiiip.//www.cxaiipic.com/	
etworking (Note ifconfig, route, mii-tool, nslookup commands are obsole	Characteristics of othernot interfere other
etworking (Note ifconfig, route, mii-tool, nslookup commands are obsole ethtool eth0	Show status of ethernet interface eth0
etworking (Note ifconfig, route, mii-tool, nslookup commands are obsole ethtool eth0 ethtoolchange eth0 autoneg off speed 100 duplex full	Manually set ethernet interface speed
etworking (Note ifconfig, route, mii-tool, nslookup commands are obsole ethtool eth0 ethtoolchange eth0 autoneg off speed 100 duplex full iw dev wlan0 link	Manually set ethernet interface speed Show link status of wireless interface wlan0
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indows networking (Note samba is the package that provides all this w	Lookup whois info for hostname or ip address
	Find windows machines. See also findsmb
smbtree	
nmblookup -A 1.2.3.4	Find the windows (netbios) name associated with ip addres
smbclient -L windows_box	List shares on windows machine or samba server
mount -t smbfs -o fmask=666,guest //windows_box/share /mnt/share	Mount a windows share
echo 'message' smbclient -M windows_box	Send popup to windows machine (off by default in XP sp2)
kt manipulation (Note sed uses stdin and stdout. Newer versions supp	, the state of the
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 sed "s/^/ /; s/ *\(.\{7,\}\)\\1/"	Right align numbers
seq 10 sed p paste	Duplicate a column
ed -n '1000{p;q}'	Print 1000th line
** mi*	
sed -n '10,20p;20g'	Print lines 10 to 20
sed -n 's/.* <title>\(.*\)<\/title>.*\\1/ip;T;g'</td><td>Extract title from HTML web page</td></tr><tr><td>ed -i 42d ~/.ssh/known_hosts</td><td>Delete a particular line</td></tr><tr><td>ort -tk1,1n -k2,2n -k3,3n -k4,4n</td><td>Sort IPV4 ip addresses</td></tr><tr><td>cho 'Test' tr '[:lower:]' '[:upper:]'</td><td>Case conversion</td></tr><tr><td>r -dc '[:print:]' < /dev/urandom</td><td>Filter non printable characters</td></tr><tr><td>r -s '[:blank:]' '\t' </proc/diskstats cut -f4</td><td>cut fields separated by blanks</td></tr><tr><td>nistory wc -l</td><td>Count lines</td></tr><tr><td>seq 10 paste -s -d ' '</td><td>Concatenate and separate line items to a single line</td></tr><tr><td>t operations (Note you can export LANG=C for speed. Also these assu</td><td></td></tr><tr><td>ort -u file1 file2</td><td>Union of unsorted files</td></tr><tr><td>ort file1 file2 uniq -d</td><td>Intersection of unsorted files</td></tr><tr><td>cort file1 file2 uniq -u</td><td>Difference of unsorted files</td></tr><tr><td>ort file1 file2 uniq -u</td><td>Symmetric Difference of unsorted files</td></tr><tr><td>·</td><td>Union of sorted files</td></tr><tr><td>oin <u>-t'\0'</u> -a1 -a2 file1 file2</td><td></td></tr><tr><td>oin -t'\0' file1 file2</td><td>Intersection of sorted files</td></tr><tr><td>pin -t'\0' -v2 file1 file2</td><td>Difference of sorted files</td></tr><tr><td>oin -t'\0' -v1 -v2 file1 file2</td><td>Symmetric Difference of sorted files</td></tr><tr><td>ath</td><td></td></tr><tr><td>echo '(1 + sqrt(5))/2' bc -l</td><td>Quick math (Calculate φ). See also bc</td></tr><tr><td>seq -f '4/%g' 1 2 99999 paste -sd-+ bc -l</td><td>Calculate <math>\pi</math> the unix way</td></tr><tr><td>echo 'pad=20; min=64; (100*10^6)/((pad+min)*8)' bc</td><td>Maria annualas (int) and Thin about many Footf montret water</td></tr><tr><td></td><td>More complex (int) e.g. This shows max FastE packet rate</td></tr><tr><td>echo 'pad=20; min=64; print (100E6)/((pad+min)*8)' python</td><td>Python handles scientific notation</td></tr><tr><td>echo 'pad=20; plot [64:1518] (100*10**6)/((pad+x)*8)' gnuplot -persist</td><td>Plot FastE packet rate vs packet size</td></tr><tr><td>echo 'obase=16; ibase=10; 64206' bc</td><td>Base conversion (decimal to hexadecimal)</td></tr><tr><td>echo \$((0x2dec))</td><td>Base conversion (hex to dec) ((shell arithmetic expansion))</td></tr><tr><td>units -t '100m/9,58s' 'miles/hour'</td><td>Unit conversion (metric to imperial)</td></tr><tr><td>units -t '500GB' 'GiB'</td><td>Unit conversion (SI to IEC prefixes). See also numfmt</td></tr><tr><td>units -t '1 googol'</td><td>Definition lookup</td></tr><tr><td>seq 100 paste -s -d+ bc</td><td>Add a column of numbers. See also add and funcpy</td></tr><tr><td></td><td>Add a column of numbers. See also add and funcpy</td></tr><tr><td>lendar</td><td>In the second se</td></tr><tr><td>al -3</td><td>Display a calendar</td></tr><tr><td>al 9 1752</td><td>Display a calendar for a particular month year</td></tr><tr><td>late -d fri</td><td>What date is it this friday. See also day</td></tr><tr><td>\$(date -d '12:00 today +1 day' +%d) = '01'] exit</td><td>exit a script unless it's the last day of the month</td></tr><tr><td>latedate='25 Dec' +%A</td><td>What day does xmas fall on, this year</td></tr><tr><td>latedate='@2147483647'</td><td>Convert seconds since the epoch (1970-01-01 UTC) to dat</td></tr><tr><td>Z='America/Los_Angeles' date</td><td>What time is it on west coast of US (use tzselect to find TZ</td></tr><tr><td>atedate='TZ="America/Los_Angeles" 09:00 next Fri'</td><td>What's the local time for 9AM next Friday on west coast US</td></tr><tr><td>ales</td><td></td></tr><tr><td>printf "%'d\n" 1234</td><td>Print number with thousands grouping appropriate to locale</td></tr><tr><td>BLOCK SIZE=\'1 Is -I</td><td>Use locale thousands grouping in Is. See also I</td></tr><tr><td>cho "I live in `locale territory`"</td><td>Extract info from locale database</td></tr><tr><td>ANG=en_IE.utf8 locale int_prefix</td><td>Lookup locale info for specific country. See also ccodes</td></tr><tr><td>ANG=en_re_unio locale int_prefix pcale -kc \$(locale sed -n 's/\((LC\\(4,\\\))=.*/\1/p') less</td><td>List fields available in locale database</td></tr><tr><td></td><td>LIST HEIUS AVAIIADIE III IUUAIE UATADASE</td></tr><tr><td>code (Obsoletes iconv, dos2unix, unix2dos)</td><td>Characteristics (alices are as letter)</td></tr><tr><td>ecode -l less</td><td>Show available conversions (aliases on each line)</td></tr><tr><td>ecode windows-1252 file_to_change.txt</td><td>Windows "ansi" to local charset (auto does CRLF conversion</td></tr><tr><td>ecode utf-8/CRLF file_to_change.txt</td><td>Windows utf8 to local charset</td></tr><tr><td>ecode iso-8859-15utf8 file_to_change.txt</td><td>Latin9 (western europe) to utf8</td></tr><tr><td>ecode/b64 < file.txt > file.b64</td><td>Base64 encode</td></tr><tr><td>ecode /qp < file.qp > file.txt</td><td>Quoted printable decode</td></tr><tr><td>ecodeHTML < file.txt > file.html</td><td>Text to HTML</td></tr><tr><td>ecode -lf windows-1252 grep euro</td><td>Lookup table of characters</td></tr><tr><td>echo -n 0x80 recode latin-9/x1dump</td><td>Show what a code represents in latin-9 charmap</td></tr><tr><td>echo -n 0x20AC recode ucs-2/x2latin-9/x</td><td>Show latin-9 encoding</td></tr><tr><td></td><td>-</td></tr><tr><td>echo -n 0x20AC recode ucs-2/x2utf-8/x</td><td>Show utf-8 encoding</td></tr><tr><td><u>)s</u></td><td></td></tr><tr><td></td><td>Save copy of data cdrom</td></tr><tr><td></td><td>· ·</td></tr><tr><td>gzip < /dev/cdrom > cdrom.iso.gz
nkisofs -V LABEL -r dir gzip > cdrom.iso.gz
nount -o loop cdrom.iso /mnt/dir</td><td>Create cdrom image from contents of dir Mount the cdrom image at /mnt/dir (read only)</td></tr></tbody></table></title>	

wodim dev=/dev/cdrom blank=fast	Clear a CDRW
gzip -dc cdrom.iso.gz wodim -tao dev=/dev/cdrom -v -data -	Burn cdrom image (useprcap to confirm dev)
cdparanoia -B	Rip audio tracks from CD to wav files in current dir
wodim -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)	wake ogg me nom wav me
• Is -ISr	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 -k1,1h	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 -l	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	transacto data of mo of oroate arrompty mo
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
• Itrace -f -e getenv ls >/dev/null	List library calls made by command
• Isof -p \$\$	List paths that process id has open
• Isof ~	List processes that 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
watch -n.1 pstree -Uacp \$\$	Display a changing process subtree
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 required	
• 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
• Ispci -tv	Show PCI info
• Isusb -tv	Show USB info
mount column -t	List mounted filesystems on the system (and align output)
• grep -F capacity: /proc/acpi/battery/BAT0/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
interactive (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
• xdq-open .	open a file or url with the registered desktop application

Web browser open a file or url with the registered desktop application