## https://www.pixelbeat.org/cmdline.html

This is a linux command line reference for common operations. Examples marked with • are valid/safe to paste without modification into a terminal, so you may want to keep a terminal window open while reading this so you can cut & paste. All these commands have been tested both on Fedora and Ubuntu. See also more linux commands.

C	ommand	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
d	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 <b>popd</b> back to it
fi	le searching	
•	alias I='ls -lcolor=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
		Search all regular files for 'example' in this dir and below
	find -maxdepth 1 -type f   xargs grep -F 'example'	
	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
а	rchives and compression	
	gpg -c file	Encrypt file
	gpg file.gpg	Decrypt file
		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
rs	sync (Network efficient file copier: Use thedry-ru	
	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/	Mirror web site (using compression and encryption)		
		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		
5	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		
,	w	get (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 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			
	1	waetmirror http://www.evample.com/			
		wgetmirror http://www.example.com/	Efficiently update a local copy of a site (handy from cron)		
ı	ne	etworking (Note ifconfig, route, mii-tool, nslookup	commands are obsolete)		
	ne	etworking (Note ifconfig, route, mii-tool, nslookup ethtool eth0	commands are obsolete) Show status of ethernet interface eth0		
	ne	etworking (Note ifconfig, route, mii-tool, nslookup ethtool eth0	commands are obsolete)		
	ne	etworking (Note ifconfig, route, mii-tool, nslookup ethtool eth0 ethtoolchange eth0 autoneg off speed 100 duplex full iw dev wlan0 link	Show status of ethernet interface eth0  Manually set ethernet interface speed  Show link status of wireless interface wlan0		
	ne	etworking (Note ifconfig, route, mii-tool, nslookup ethtool eth0 ethtoolchange eth0 autoneg off speed 100 duplex full iw dev wlan0 link iw dev wlan0 set bitrates legacy-2.4 1	Show status of ethernet interface eth0  Manually set ethernet interface speed  Show link status of wireless interface wlan0  Manually set wireless interface speed		
	ne •	etworking (Note ifconfig, route, mii-tool, nslookup ethtool eth0 ethtoolchange eth0 autoneg off speed 100 duplex full iw dev wlan0 link iw dev wlan0 set bitrates legacy-2.4 1 iw dev wlan0 scan	Show status of ethernet interface eth0  Manually set ethernet interface speed  Show link status of wireless interface wlan0  Manually set wireless interface speed  List wireless networks in range		
	ne •	etworking (Note ifconfig, route, mii-tool, nslookup ethtool eth0 ethtoolchange eth0 autoneg off speed 100 duplex full iw dev wlan0 link iw dev wlan0 set bitrates legacy-2.4 1 iw dev wlan0 scan ip link show	Show status of ethernet interface eth0  Manually set ethernet interface speed  Show link status of wireless interface wlan0  Manually set wireless interface speed  List wireless networks in range  List network interfaces		
	ne •	etworking (Note ifconfig, route, mii-tool, nslookup ethtool eth0 ethtoolchange eth0 autoneg off speed 100 duplex full iw dev wlan0 link iw dev wlan0 set bitrates legacy-2.4 1 iw dev wlan0 scan ip link show ip link set dev eth0 name wan	Show status of ethernet interface eth0  Manually set ethernet interface speed  Show link status of wireless interface wlan0  Manually set wireless interface speed  List wireless networks in range  List network interfaces  Rename interface eth0 to wan		
•	• • • • • • • • • • • • • • • • • • •	etworking (Note ifconfig, route, mii-tool, nslookup ethtool eth0 ethtoolchange eth0 autoneg off speed 100 duplex full iw dev wlan0 link 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	Show status of ethernet interface eth0  Manually set ethernet interface speed  Show link status of wireless interface wlan0  Manually set wireless interface speed  List wireless networks in range  List network interfaces		
•	·	etworking (Note ifconfig, route, mii-tool, nslookup ethtool eth0 ethtoolchange eth0 autoneg off speed 100 duplex full iw dev wlan0 link 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	Show status of ethernet interface eth0  Manually set ethernet interface speed  Show link status of wireless interface wlan0  Manually set wireless interface speed  List wireless networks in range  List network interfaces  Rename interface eth0 to wan  Bring interface eth0 up (or down)		
	·	etworking (Note ifconfig, route, mii-tool, nslookup ethtool eth0 ethtoolchange eth0 autoneg off speed 100 duplex full iw dev wlan0 link 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	Show status of ethernet interface eth0  Manually set ethernet interface speed  Show link status of wireless interface wlan0  Manually set wireless interface speed  List wireless networks in range  List network interfaces  Rename interface eth0 to wan  Bring interface eth0 up (or down)  List addresses for interfaces		
	·	etworking (Note ifconfig, route, mii-tool, nslookup ethtool eth0 ethtoolchange eth0 autoneg off speed 100 duplex full iw dev wlan0 link 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	Show status of ethernet interface eth0  Manually set ethernet interface speed  Show link status of wireless interface wlan0  Manually set wireless interface speed  List wireless networks in range  List network interfaces  Rename interface eth0 to wan  Bring interface eth0 up (or down)  List addresses for interfaces  Add (or del) ip and mask (255.255.255.0)		
	·	etworking (Note ifconfig, route, mii-tool, nslookup ethtool eth0 ethtoolchange eth0 autoneg off speed 100 duplex full iw dev wlan0 link 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	Show status of ethernet interface eth0  Manually set ethernet interface speed  Show link status of wireless interface wlan0  Manually set wireless interface speed  List wireless networks in range  List network interfaces  Rename interface eth0 to wan  Bring interface eth0 up (or down)  List addresses for interfaces  Add (or del) ip and mask (255.255.255.0)  List routing table		
	·	etworking (Note ifconfig, route, mii-tool, nslookup ethtool eth0 ethtoolchange eth0 autoneg off speed 100 duplex full iw dev wlan0 link 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 -tup	Show status of ethernet interface eth0  Manually set ethernet interface speed  Show link status of wireless interface wlan0  Manually set wireless interface speed  List wireless networks in range  List network interfaces  Rename interface eth0 to wan  Bring interface eth0 up (or down)  List addresses for interfaces  Add (or del) ip and mask (255.255.255.0)  List routing table  Set default gateway to 1.2.3.254  List internet services on a system  List active connections to/from system		
	·	etworking (Note ifconfig, route, mii-tool, nslookup ethtool eth0 ethtoolchange eth0 autoneg off speed 100 duplex full iw dev wlan0 link 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 -tup host pixelbeat.org	Show status of ethernet interface eth0  Manually set ethernet interface speed  Show link status of wireless interface wlan0  Manually set wireless interface speed  List wireless networks in range  List network interfaces  Rename interface eth0 to wan  Bring interface eth0 up (or down)  List addresses for interfaces  Add (or del) ip and mask (255.255.255.0)  List routing table  Set default gateway to 1.2.3.254  List internet services on a system  List active connections to/from system  Lookup DNS ip address for name or vice versa		
		etworking (Note ifconfig, route, mii-tool, nslookup ethtool eth0 ethtoolchange eth0 autoneg off speed 100 duplex full iw dev wlan0 link 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 -tup host pixelbeat.org hostname -i	Show status of ethernet interface eth0  Manually set ethernet interface speed  Show link status of wireless interface wlan0  Manually set wireless interface speed  List wireless networks in range  List network interfaces  Rename interface eth0 to wan  Bring interface eth0 up (or down)  List addresses for interfaces  Add (or del) ip and mask (255.255.255.0)  List routing table  Set default gateway to 1.2.3.254  List internet services on a system  List active connections to/from system  Lookup DNS ip address for name or vice versa  Lookup local ip address (equivalent to host `hostname`)		
		etworking (Note ifconfig, route, mii-tool, nslookup ethtool eth0 ethtoolchange eth0 autoneg off speed 100 duplex full iw dev wlan0 link 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 host pixelbeat.org hostname -i whois pixelbeat.org	Show status of ethernet interface eth0  Manually set ethernet interface speed  Show link status of wireless interface wlan0  Manually set wireless interface speed  List wireless networks in range  List network interfaces  Rename interface eth0 to wan  Bring interface eth0 up (or down)  List addresses for interfaces  Add (or del) ip and mask (255.255.255.0)  List routing table  Set default gateway to 1.2.3.254  List internet services on a system  List active connections to/from system  Lookup DNS ip address for name or vice versa  Lookup local ip address (equivalent to host `hostname`)  Lookup whois info for hostname or ip address		
	o i	etworking (Note ifconfig, route, mii-tool, nslookup ethtool eth0 ethtoolchange eth0 autoneg off speed 100 duplex full iw dev wlan0 link 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 -tup host pixelbeat.org hostname -i whois pixelbeat.org indows networking (Note samba is the package	Show status of ethernet interface eth0  Manually set ethernet interface speed  Show link status of wireless interface wlan0  Manually set wireless interface speed  List wireless networks in range  List network interfaces  Rename interface eth0 to wan  Bring interface eth0 up (or down)  List addresses for interfaces  Add (or del) ip and mask (255.255.255.0)  List routing table  Set default gateway to 1.2.3.254  List internet services on a system  List active connections to/from system  Lookup DNS ip address for name or vice versa  Lookup local ip address (equivalent to host `hostname`)  Lookup whois info for hostname or ip address that provides all this windows specific networking support)		
	o i	etworking (Note ifconfig, route, mii-tool, nslookup ethtool eth0 ethtoolchange eth0 autoneg off speed 100 duplex full iw dev wlan0 link 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 host pixelbeat.org hostname -i whois pixelbeat.org	Show status of ethernet interface eth0  Manually set ethernet interface speed  Show link status of wireless interface wlan0  Manually set wireless interface speed  List wireless networks in range  List network interfaces  Rename interface eth0 to wan  Bring interface eth0 up (or down)  List addresses for interfaces  Add (or del) ip and mask (255.255.255.0)  List routing table  Set default gateway to 1.2.3.254  List internet services on a system  List active connections to/from system  Lookup DNS ip address for name or vice versa  Lookup local ip address (equivalent to host `hostname`)  Lookup whois info for hostname or ip address		
	o i	etworking (Note ifconfig, route, mii-tool, nslookup ethtool eth0 ethtoolchange eth0 autoneg off speed 100 duplex full iw dev wlan0 link 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 -tup host pixelbeat.org hostname -i whois pixelbeat.org indows networking (Note samba is the package smbtree	Show status of ethernet interface eth0  Manually set ethernet interface speed  Show link status of wireless interface wlan0  Manually set wireless interface speed  List wireless networks in range  List network interfaces  Rename interface eth0 to wan  Bring interface eth0 up (or down)  List addresses for interfaces  Add (or del) ip and mask (255.255.255.0)  List routing table  Set default gateway to 1.2.3.254  List internet services on a system  List active connections to/from system  Lookup DNS ip address for name or vice versa  Lookup local ip address (equivalent to host `hostname`)  Lookup whois info for hostname or ip address  that provides all this windows specific networking support)  Find windows machines. See also findsmb  Find the windows (netbios) name associated with ip		
	nee de la company de la compan	etworking (Note ifconfig, route, mii-tool, nslookup ethtool eth0 ethtoolchange eth0 autoneg off speed 100 duplex full iw dev wlan0 link 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 -tup host pixelbeat.org hostname -i whois pixelbeat.org indows networking (Note samba is the package smbtree nmblookup -A 1.2.3.4	Show status of ethernet interface eth0  Manually set ethernet interface speed  Show link status of wireless interface wlan0  Manually set wireless interface speed  List wireless networks in range  List network interfaces  Rename interface eth0 to wan  Bring interface eth0 up (or down)  List addresses for interfaces  Add (or del) ip and mask (255.255.255.0)  List routing table  Set default gateway to 1.2.3.254  List internet services on a system  List active connections to/from system  Lookup DNS ip address for name or vice versa  Lookup local ip address (equivalent to host `hostname`)  Lookup whois info for hostname or ip address that provides all this windows specific networking support)  Find windows machines. See also findsmb  Find the windows (netbios) name associated with ip address  List shares on windows machine or samba server		

t	ext manipulation (Note sed uses stdin and stdout	. Newer versions support inplace editing with the -i option)
	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
	sed -n '1000{p;q}'	Print 1000th line
	sed -n '10,20p;20q'	Print lines 10 to 20
	sed -n 's/.* <title>\(.*\)&lt;\/title&gt;.*/\1/ip;T;q'&lt;/th&gt;&lt;th&gt;Extract title from HTML web page&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;sed -i 42d ~/.ssh/known hosts&lt;/th&gt;&lt;th&gt;Delete a particular line&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;sort -tk1,1n -k2,2n -k3,3n -k4,4n&lt;/th&gt;&lt;th&gt;Sort IPV4 ip addresses&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;•&lt;/th&gt;&lt;th&gt;echo 'Test'   tr '[:lower:]' '[:upper:]'&lt;/th&gt;&lt;th&gt;Case conversion&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;tr -dc '[:print:]' &lt; /dev/urandom&lt;/th&gt;&lt;th&gt;Filter non printable characters&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;tr -s '[:blank:]' '\t' &lt;/proc/diskstats   cut -f4&lt;/th&gt;&lt;th&gt;cut fields separated by blanks&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;history   wc -l&lt;/th&gt;&lt;th&gt;Count lines&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;seq 10   paste -s -d ' '&lt;/th&gt;&lt;th&gt;Concatenate and separate line items to a single line&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;speed. Also these assume no duplicate lines within a file)&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;sort -u file1 file2&lt;/th&gt;&lt;th&gt;Union of unsorted files&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;sort file1 file2   uniq -d&lt;/th&gt;&lt;th&gt;Intersection of unsorted files&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;sort file1 file2   uniq -u&lt;/th&gt;&lt;th&gt;Difference of unsorted files&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;sort file1 file2   uniq -u&lt;/th&gt;&lt;th&gt;Symmetric Difference of unsorted files&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;join -t'\0' -a1 -a2 file1 file2&lt;/th&gt;&lt;th&gt;Union of sorted files&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;join -t'\0' file1 file2&lt;/th&gt;&lt;th&gt;Intersection of sorted files&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;join -t'\0' -v2 file1 file2&lt;/th&gt;&lt;th&gt;Difference of sorted files&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;join -t'\0' -v1 -v2 file1 file2&lt;/th&gt;&lt;th&gt;Symmetric Difference of sorted files&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;r&lt;/th&gt;&lt;th&gt;nath&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;•&lt;/th&gt;&lt;th&gt;echo '(1 + sqrt(5))/2'   bc -l&lt;/th&gt;&lt;th&gt;Quick math (Calculate φ). See also bc&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;seq -f '4/%g' 1 2 99999   paste -sd-+   bc -l&lt;/th&gt;&lt;th&gt;Calculate &lt;math&gt;\pi&lt;/math&gt; the unix way&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;•&lt;/th&gt;&lt;th&gt;echo 'pad=20; min=64; (100*10^6)/((pad+min)*8)'   bc&lt;/th&gt;&lt;th&gt;More complex (int) e.g. This shows max FastE packet rate&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;•&lt;/th&gt;&lt;th&gt;(10020)/ ((pad / ////// ) /   python&lt;/th&gt;&lt;th&gt;Python handles scientific notation&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;•&lt;/th&gt;&lt;th&gt;echo 'pad=20; plot [64:1518]&lt;br&gt;(100*10**6)/((pad+x)*8)'   gnuplot -persist&lt;/th&gt;&lt;th&gt;Plot FastE packet rate vs packet size&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;echo 'obase=16; ibase=10; 64206'   bc&lt;/th&gt;&lt;th&gt;Base conversion (decimal to hexadecimal)&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;echo \$((0x2dec))&lt;/th&gt;&lt;th&gt;Base conversion (hex to dec) ((shell arithmetic expansion))&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;units -t '100m/9.58s' 'miles/hour'&lt;/th&gt;&lt;th&gt;Unit conversion (metric to imperial)&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;units -t '500GB' 'GiB'&lt;/th&gt;&lt;th&gt;Unit conversion (SI to IEC prefixes). See also numfmt&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;•&lt;/th&gt;&lt;th&gt;units -t '1 googol'&lt;/th&gt;&lt;th&gt;Definition lookup&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;seq 100   paste -s -d+   bc&lt;/th&gt;&lt;th&gt;Add a column of numbers. See also add and funcpy&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;Add a column of numbers. See also add and runcpy&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;C&lt;/th&gt;&lt;th&gt;alendar&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;•&lt;/th&gt;&lt;th&gt;alendar&lt;br&gt;cal -3&lt;/th&gt;&lt;th&gt;Display a calendar&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;•&lt;/th&gt;&lt;th&gt;alendar&lt;br&gt;cal -3&lt;br&gt;cal 9 1752&lt;/th&gt;&lt;th&gt;Display a calendar Display a calendar for a particular month year&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;•&lt;/th&gt;&lt;th&gt;cal -3 cal 9 1752 date -d fri&lt;/th&gt;&lt;th&gt;Display a calendar&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;•&lt;/th&gt;&lt;th&gt;alendar  cal -3  cal 9 1752  date -d fri  [ \$(date -d '12:00 today +1 day' +%d) = '01' ]    exit&lt;/th&gt;&lt;th&gt;Display a calendar Display a calendar for a particular month year What date is it this friday. See also day exit a script unless it's the last day of the month&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;•&lt;/th&gt;&lt;th&gt;alendar  cal -3  cal 9 1752  date -d fri  [ \$(date -d '12:00 today +1 day' +%d) = '01' ]     exit  datedate='25 Dec' +%A&lt;/th&gt;&lt;th&gt;Display a calendar Display a calendar for a particular month year What date is it this friday. See also day exit a script unless it's the last day of the month What day does xmas fall on, this year&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;•&lt;/th&gt;&lt;th&gt;alendar  cal -3  cal 9 1752  date -d fri  [ \$(date -d '12:00 today +1 day' +%d) = '01' ]    exit  datedate='25 Dec' +%A  datedate='@2147483647'&lt;/th&gt;&lt;th&gt;Display a calendar Display a calendar for a particular month year What date is it this friday. See also day exit a script unless it's the last day of the month What day does xmas fall on, this year Convert seconds since the epoch (1970-01-01 UTC) to date&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;•&lt;/th&gt;&lt;th&gt;alendar  cal -3  cal 9 1752  date -d fri  [ \$(date -d '12:00 today +1 day' +%d) = '01' ]    exit  datedate='25 Dec' +%A  datedate='@2147483647'  TZ='America/Los_Angeles' date&lt;/th&gt;&lt;th&gt;Display a calendar Display a calendar for a particular month year What date is it this friday. See also day exit a script unless it's the last day of the month What day does xmas fall on, this year Convert seconds since the epoch (1970-01-01 UTC) to date What time is it on west coast of US (use tzselect to find TZ)&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;•&lt;/th&gt;&lt;th&gt;alendar  cal -3  cal 9 1752  date -d fri  [ \$(date -d '12:00 today +1 day' +%d) = '01' ]    exit  datedate='25 Dec' +%A  datedate='@2147483647'  TZ='America/Los_Angeles' date  datedate='TZ="America/Los_Angeles" 09:00  next Fri'&lt;/th&gt;&lt;th&gt;Display a calendar Display a calendar for a particular month year What date is it this friday. See also day exit a script unless it's the last day of the month What day does xmas fall on, this year Convert seconds since the epoch (1970-01-01 UTC) to date What time is it on west coast of US (use tzselect to find TZ)&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;•&lt;/th&gt;&lt;th&gt;alendar  cal -3  cal 9 1752  date -d fri  [ \$(date -d '12:00 today +1 day' +%d) = '01' ]    exit  datedate='25 Dec' +%A  datedate='@2147483647'  TZ='America/Los_Angeles' date  datedate='TZ="America/Los_Angeles" 09:00&lt;/th&gt;&lt;th&gt;Display a calendar Display a calendar for a particular month year What date is it this friday. See also day exit a script unless it's the last day of the month What day does xmas fall on, this year Convert seconds since the epoch (1970-01-01 UTC) to date What time is it on west coast of US (use tzselect to find TZ)&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;•&lt;/th&gt;&lt;td&gt;alendar  cal -3  cal 9 1752  date -d fri  [ \$(date -d '12:00 today +1 day' +%d) = '01' ]    exit  datedate='25 Dec' +%A  datedate='@2147483647'  TZ='America/Los_Angeles' date  datedate='TZ="America/Los_Angeles" 09:00  next Fri'&lt;/td&gt;&lt;td&gt;Display a calendar Display a calendar for a particular month year What date is it this friday. See also day exit a script unless it's the last day of the month What day does xmas fall on, this year Convert seconds since the epoch (1970-01-01 UTC) to date What time is it on west coast of US (use tzselect to find TZ)&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>	

BLOCK SIZE=\'1 ls -l	Use locale thousands grouping in Is. See also I
echo "I live in `locale territory`"	Extract info from locale database
<ul> <li>LANG=en_IE.utf8 locale int_prefix</li> </ul>	Lookup locale info for specific country. See also ccodes
3/ ((LC \(\frac{4}{4}, \(\frac{1}{2}\))   1633	List fields available in locale database
recode (Obsoletes iconv, dos2unix, unix2dos)	
recode -l   less	Show available 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 local 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
<ul> <li>recode -lf windows-1252   grep euro</li> </ul>	Lookup table of characters
<ul> <li>echo -n 0x80   recode latin-9/x1dump</li> </ul>	Show what a code represents in latin-9 charmap
<ul><li>echo -n 0x20AC   recode ucs-2/x2latin-9/x</li></ul>	Show latin-9 encoding
<ul><li>echo -n 0x20AC   recode ucs-2/x2utf-8/x</li></ul>	Show utf-8 encoding
CDs	
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)
wodim dev=/dev/cdrom blank=fast	Clear a CDRW
gzip -dc cdrom.iso.gz   wodim -ta 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	, and the second
track.ogg	Make ogg file from wav file
track.ogg  disk space (See also FSlint)	Make ogg file from wav file
track.ogg  disk space (See also FSlint)  Is -ISr	Make ogg file from wav file  Show files by size, biggest last
track.ogg  disk space (See also FSlint)  Is -ISr  du -s *   sort -k1,1rn   head	Make ogg file from wav file  Show files by size, biggest last Show top disk users in current dir. See also dutop
track.ogg  disk space (See also FSlint)  Is -ISr  du -s *   sort -k1,1rn   head  du -hs /home/*   sort -k1,1h	Make ogg file from wav file  Show files by size, biggest last Show top disk users in current dir. See also dutop Sort paths by easy to interpret disk usage
track.ogg  disk space (See also FSlint)  Is -ISr  du -s *   sort -k1,1rn   head  du -hs /home/*   sort -k1,1h  df -h	Make ogg file from wav file  Show files by size, biggest last Show top disk users in current dir. See also dutop Sort paths by easy to interpret disk usage Show free space on mounted filesystems
track.ogg  disk space (See also FSlint)  Is -ISr  du -s *   sort -k1,1rn   head  du -hs /home/*   sort -k1,1h  df -h  df -i	Make ogg file from wav file  Show files by size, biggest last Show top disk users in current dir. See also dutop Sort paths by easy to interpret disk usage Show free space on mounted filesystems Show free inodes on mounted filesystems
track.ogg  disk space (See also FSlint)  Is -ISr  du -s *   sort -k1,1rn   head  du -hs /home/*   sort -k1,1h  df -h  df -i  fdisk -I	Make ogg file from wav file  Show files by size, biggest last Show top disk users in current dir. See also dutop Sort paths by easy to interpret disk usage Show free space on mounted filesystems Show free inodes on mounted filesystems Show disks partitions sizes and types (run as root)
track.ogg  disk space (See also FSlint)  Is -ISr  du -s *   sort -k1,1rn   head  du -hs /home/*   sort -k1,1h  df -h  df -i  fdisk -I  rpm -q -aqf '%10{SIZE}\t%{NAME}\n'   sort k1,1n	Show files by size, biggest last Show top disk users in current dir. See also dutop Sort paths by easy to interpret disk usage Show free space on mounted filesystems Show free inodes on mounted filesystems Show disks partitions sizes and types (run as root) List all packages by installed size (Bytes) on rpm distros
track.ogg  disk space (See also FSlint)  Is -ISr  du -s *   sort -k1,1rn   head  du -hs /home/*   sort -k1,1h  df -h  df -i  fdisk -I  rpm -q -aqf '%10{SIZE}\t%{NAME}\n'   sort k1,1n  dpkg-query -W -f='\${Installed Size;10}\t\${Package}\n'   sort -k1,1n	Show files by size, biggest last Show top disk users in current dir. See also dutop Sort paths by easy to interpret disk usage Show free space on mounted filesystems Show free inodes on mounted filesystems Show disks partitions sizes and types (run as root) List all packages by installed size (Bytes) on rpm distros List all packages by installed size (KBytes) on deb distros
track.ogg  disk space (See also FSlint)  Is -ISr  du -s *   sort -k1,1rn   head  du -hs /home/*   sort -k1,1h  df -h  df -i  fdisk -I  rpm -q -aqf '%10{SIZE}\t%{NAME}\n'   sort k1,1n  dpkg-query -W -f='\${Installed Size;10}\t\${Package}\n'   sort -k1,1n  db bs=1 seek=2TB if=/dev/null of=ext3.test	Show files by size, biggest last Show top disk users in current dir. See also dutop Sort paths by easy to interpret disk usage Show free space on mounted filesystems Show free inodes on mounted filesystems Show disks partitions sizes and types (run as root) List all packages by installed size (Bytes) on rpm distros List all packages by installed size (KBytes) on deb distros Create a large test file (taking no space). See also truncate
track.ogg  disk space (See also FSlint)  Is -ISr  du -s *   sort -k1,1rn   head  du -hs /home/*   sort -k1,1h  df -h  df -i  fdisk -I  rpm -q -aqf '%10{SIZE}\t%{NAME}\n'   sort k1,1n  dpkg-query -W -f='\${Installed Size;10}\t\${Package}\n'   sort -k1,1n  db bs=1 seek=2TB if=/dev/null of=ext3.test  > file	Show files by size, biggest last Show top disk users in current dir. See also dutop Sort paths by easy to interpret disk usage Show free space on mounted filesystems Show free inodes on mounted filesystems Show disks partitions sizes and types (run as root) List all packages by installed size (Bytes) on rpm distros List all packages by installed size (KBytes) on deb distros
track.ogg  disk space (See also FSlint)  Is -ISr  du -s *   sort -k1,1rn   head  du -hs /home/*   sort -k1,1h  df -h  df -i  fdisk -I  rpm -q -aqf '%10{SIZE}\t%{NAME}\n'   sort k1,1n  dpkg-query -W -f='\${Installed Size;10}\t\${Package}\n'   sort -k1,1n  dd bs=1 seek=2TB if=/dev/null of=ext3.test  > file  monitoring/debugging	Show files by size, biggest last Show top disk users in current dir. See also dutop Sort paths by easy to interpret disk usage Show free space on mounted filesystems Show free inodes on mounted filesystems Show disks partitions sizes and types (run as root) List all packages by installed size (Bytes) on rpm distros List all packages by installed size (KBytes) on deb distros Create a large test file (taking no space). See also truncate truncate data of file or create an empty file
track.ogg  disk space (See also FSlint)  Is -ISr  du -s *   sort -k1,1rn   head  du -hs /home/*   sort -k1,1h  df -h  df -i  fdisk -I  rpm -q -aqf '%10{SIZE}\t%{NAME}\n'   sort k1,1n  dpkg-query -W -f='\${Installed Size;10}\t\${Package}\n'   sort -k1,1n  dbs=1 seek=2TB if=/dev/null of=ext3.test  right file  monitoring/debugging  tail -f /var/log/messages	Show files by size, biggest last Show top disk users in current dir. See also dutop Sort paths by easy to interpret disk usage Show free space on mounted filesystems Show free inodes on mounted filesystems Show disks partitions sizes and types (run as root) List all packages by installed size (Bytes) on rpm distros List all packages by installed size (KBytes) on deb distros Create a large test file (taking no space). See also truncate truncate data of file or create an empty file  Monitor messages in a log file
track.ogg  disk space (See also FSlint)  Is -ISr  du -s *   sort -k1,1rn   head  du -hs /home/*   sort -k1,1h  df -h  df -i  fdisk -I  rpm -q -aqf '%10{SIZE}\t%{NAME}\n'   sort k1,1n  dpkg-query -W -f='\${Installed Size;10}\t\${Package}\n'   sort -k1,1n  dbs=1 seek=2TB if=/dev/null of=ext3.test  right for the seek for the seek seek for the seek seek for the seek seek seek seek seek seek seek se	Show files by size, biggest last Show top disk users in current dir. See also dutop Sort paths by easy to interpret disk usage Show free space on mounted filesystems Show free inodes on mounted filesystems Show disks partitions sizes and types (run as root) List all packages by installed size (Bytes) on rpm distros List all packages by installed size (KBytes) on deb distros Create a large test file (taking no space). See also truncate truncate data of file or create an empty file  Monitor messages in a log file Summarise/profile system calls made by command
track.ogg  disk space (See also FSlint)  Is -ISr  du -s *   sort -k1,1rn   head  du -hs /home/*   sort -k1,1h  df -h  df -i  fdisk -I  rpm -q -aqf '%10{SIZE}\t%{NAME}\n'   sort k1,1n  dpkg-query -W -f='\${Installed Size;10}\t\${Package}\n'   sort -k1,1n  db bs=1 seek=2TB if=/dev/null of=ext3.test  rile  monitoring/debugging  tail -f /var/log/messages  strace -c ls >/dev/null  strace -f -e open ls >/dev/null	Show files by size, biggest last Show top disk users in current dir. See also dutop Sort paths by easy to interpret disk usage Show free space on mounted filesystems Show free inodes on mounted filesystems Show disks partitions sizes and types (run as root) List all packages by installed size (Bytes) on rpm distros List all packages by installed size (KBytes) on deb distros Create a large test file (taking no space). See also truncate truncate data of file or create an empty file  Monitor messages in a log file Summarise/profile system calls made by command List system calls made by command
<pre>track.ogg  disk space (See also FSlint)  • Is -ISr  • du -s *   sort -k1,1rn   head  • du -hs /home/*   sort -k1,1h  • df -h  • df -i  • fdisk -I  • rpm -q -aqf '%10{SIZE}\t%{NAME}\n'   sort k1,1n  • dpkg-query -W -f='\${Installed Size;10}\t\${Package}\n'   sort -k1,1n  • dd bs=1 seek=2TB if=/dev/null of=ext3.test  • &gt; file  monitoring/debugging  • tail -f /var/log/messages  • strace -c Is &gt;/dev/null  • strace -f -e open Is &gt;/dev/null  • strace -f -e trace=write -e write=1,2 Is &gt;/dev/null</pre>	Show files by size, biggest last Show top disk users in current dir. See also dutop Sort paths by easy to interpret disk usage Show free space on mounted filesystems Show free inodes on mounted filesystems Show disks partitions sizes and types (run as root) List all packages by installed size (Bytes) on rpm distros List all packages by installed size (KBytes) on deb distros Create a large test file (taking no space). See also truncate truncate data of file or create an empty file  Monitor messages in a log file Summarise/profile system calls made by command List system calls made by command Monitor what's written to stdout and stderr
track.ogg  disk space (See also FSlint)  Is -ISr  du -s *   sort -k1,1rn   head  du -hs /home/*   sort -k1,1h  df -h  df -i  fdisk -I  rpm -q -aqf '%10{SIZE}\t%{NAME}\n'   sort k1,1n  dpkg-query -W -f='\${Installed Size;10}\t\${Package}\n'   sort -k1,1n  dbs=1 seek=2TB if=/dev/null of=ext3.test  rile  monitoring/debugging  tail -f /var/log/messages  strace -c ls >/dev/null  strace -f -e open ls >/dev/null  trace -f -e getenv ls >/dev/null	Show files by size, biggest last Show top disk users in current dir. See also dutop Sort paths by easy to interpret disk usage Show free space on mounted filesystems Show free inodes on mounted filesystems Show disks partitions sizes and types (run as root) List all packages by installed size (Bytes) on rpm distros List all packages by installed size (KBytes) on deb distros Create a large test file (taking no space). See also truncate truncate data of file or create an empty file  Monitor messages in a log file Summarise/profile system calls made by command List system calls made by command I Monitor what's written to stdout and stderr List library calls made by command
track.ogg  disk space (See also FSlint)  Is -ISr  du -s *   sort -k1,1rn   head  du -hs /home/*   sort -k1,1h  df -h  df -i  fdisk -I  rpm -q -aqf '%10{SIZE}\t%{NAME}\n'   sort k1,1n  dpkg-query -W -f='\${Installed Size;10}\t\${Package}\n'   sort -k1,1n  dd bs=1 seek=2TB if=/dev/null of=ext3.test  > file  monitoring/debugging  tail -f /var/log/messages  strace -c ls >/dev/null  strace -f -e open ls >/dev/null  strace -f -e getenv ls >/dev/null  Itrace -f -e getenv ls >/dev/null	Show files by size, biggest last Show top disk users in current dir. See also dutop Sort paths by easy to interpret disk usage Show free space on mounted filesystems Show free inodes on mounted filesystems Show disks partitions sizes and types (run as root) List all packages by installed size (Bytes) on rpm distros List all packages by installed size (KBytes) on deb distros Create a large test file (taking no space). See also truncate truncate data of file or create an empty file  Monitor messages in a log file Summarise/profile system calls made by command List system calls made by command Monitor what's written to stdout and stderr List library calls made by command List paths that process id has open
track.ogg  disk space (See also FSlint)  Is -ISr  du -s *   sort -k1,1rn   head  du -hs /home/*   sort -k1,1h  df -h  df -i  fdisk -I  rpm -q -aqf '%10{SIZE}\t%{NAME}\n'   sort k1,1n  dpkg-query -W -f='\${Installed Size;10}\t\${Package}\n'   sort -k1,1n  dbs=1 seek=2TB if=/dev/null of=ext3.test  rile  monitoring/debugging  tail -f /var/log/messages  strace -c ls >/dev/null  strace -f -e open ls >/dev/null  trace -f -e getenv ls >/dev/null	Show files by size, biggest last Show top disk users in current dir. See also dutop Sort paths by easy to interpret disk usage Show free space on mounted filesystems Show free inodes on mounted filesystems Show disks partitions sizes and types (run as root) List all packages by installed size (Bytes) on rpm distros List all packages by installed size (KBytes) on deb distros Create a large test file (taking no space). See also truncate truncate data of file or create an empty file  Monitor messages in a log file Summarise/profile system calls made by command List system calls made by command I Monitor what's written to stdout and stderr List library calls made by command List paths that process id has open List processes that have specified path open
track.ogg  disk space (See also FSlint)  Is -ISr  du -s *   sort -k1,1rn   head  du -hs /home/*   sort -k1,1h  df -h  df -i  fdisk -I  rpm -q -aqf '%10{SIZE}\t%{NAME}\n'   sort k1,1n  dpkg-query -W -f='\${Installed Size;10}\t\${Package}\n'   sort -k1,1n  dd bs=1 seek=2TB if=/dev/null of=ext3.test  > file  monitoring/debugging  tail -f /var/log/messages  strace -c ls >/dev/null  strace -f -e open ls >/dev/null  strace -f -e getenv ls >/dev/null  Itrace -f -e getenv ls >/dev/null	Show files by size, biggest last Show top disk users in current dir. See also dutop Sort paths by easy to interpret disk usage Show free space on mounted filesystems Show free inodes on mounted filesystems Show disks partitions sizes and types (run as root) List all packages by installed size (Bytes) on rpm distros List all packages by installed size (KBytes) on deb distros Create a large test file (taking no space). See also truncate truncate data of file or create an empty file  Monitor messages in a log file Summarise/profile system calls made by command List system calls made by command I Monitor what's written to stdout and stderr List library calls made by command List paths that process id has open List processes that have specified path open Show network traffic except ssh. See
<pre>track.ogg  disk space (See also FSlint)</pre>	Show files by size, biggest last Show top disk users in current dir. See also dutop Sort paths by easy to interpret disk usage Show free space on mounted filesystems Show free inodes on mounted filesystems Show disks partitions sizes and types (run as root)  List all packages by installed size (Bytes) on rpm distros  List all packages by installed size (KBytes) on deb distros  Create a large test file (taking no space). See also truncate truncate data of file or create an empty file  Monitor messages in a log file Summarise/profile system calls made by command List system calls made by command I Monitor what's written to stdout and stderr List library calls made by command List paths that process id has open List processes that have specified path open Show network traffic except ssh. See also tcpdump_not_me
<pre>track.ogg  disk space (See also FSlint)  • Is -ISr  • du -s *   sort -k1,1rn   head  • du -hs /home/*   sort -k1,1h  • df -h  • df -i  • fdisk -I  • rpm -q -aqf '%10{SIZE}\t%{NAME}\n'   sort k1,1n  • dpkg-query -W -f='\${Installed Size;10}\t\${Package}\n'   sort -k1,1n  • dd bs=1 seek=2TB if=/dev/null of=ext3.test  • &gt; file  monitoring/debugging  • tail -f /var/log/messages  • strace -c ls &gt;/dev/null  • strace -f -e open ls &gt;/dev/null  • strace -f -e getenv ls &gt;/dev/null  • lsof -p \$\$  • Isof ~</pre>	Show files by size, biggest last Show top disk users in current dir. See also dutop Sort paths by easy to interpret disk usage Show free space on mounted filesystems Show disks partitions sizes and types (run as root)  List all packages by installed size (Bytes) on rpm distros  List all packages by installed size (KBytes) on deb distros  Create a large test file (taking no space). See also truncate truncate data of file or create an empty file  Monitor messages in a log file Summarise/profile system calls made by command List system calls made by command Monitor what's written to stdout and stderr List library calls made by command List paths that process id has open List processes that have specified path open Show network traffic except ssh. See also tcpdump_not_me List processes in a hierarchy

•	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
5	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
7	dmidecode -q   less	Display SMBIOS/DMI information
7	smartctl -A /dev/sda   grep Power_On_Hours	How long has this disk (system) been powered on in total
7	hdparm -i /dev/sda	Show info about disk sda
7	hdparm -tT /dev/sda	Do a read speed test on disk sda
7	# badblocks -s /dev/sda	Test for unreadable blocks on disk sda
i	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
•	xdg-open .	open a file or url with the registered desktop application