

Rosetta Stone for Unix

This custom drawing feature now works in [MacOs/Preview](#), in [Opera 7.6 or better](#), and in [IE 5.5 or better](#). Use click, shift-click, control-click, and the "set" and "clear" buttons to select the desired subset of OSs. Then select "Draw table" to redraw the window with your custom table.

A Sysadmin's Universal Translator (ROSETTA STONE) dit: What do they call that in this world?																				
Contributions and corrections gratefully accepted . Please help to fill in the blanks. New "tasks" are welcome, too!																				
PDF version (the best results print US legal size, landscape orientation. If your browser plug-in has trouble with the PDF, then download it and load it in stand-alone gcpdf).																				
Visual version																				
OS versions in parentheses; e.g. 10+ means version 10 and greater; 9- means version 9 and previous. 5-extra cost. (ohs) = obsolete																				
If not specified, commands are in one of the following directories: /usr/bin , /usr/sbin , bin , sbin																				
Files referenced may be either commands, configuration files, or directly-referenced text files. Use the man command to read the man pages for details such as command options.																				
Categories:																				
hardware, firmware, devices				disks				kernel, boot, swap				files, volumes								
networking				security, backup				software, patching, tracing, logging				references								
TASK \ OS	AIX	AUX	DG/UX	FreeBSD	HP-UX	IRIX	Linux	Mac OS X	NCR Unix	NetBSD	OpenBSD	Reliant	SCO OpenServer	Solaris	SunOS 4	Tru64	Ultrix	UNICOS	OS / TASK	
OS notes	By IBM, with input from System V, BSD, etc. Runs mainly on IBM RS-6000 and related hardware.	Apple 1988-1995. Based on A/T+ SysV 2.2 with extensions from V.3, V.4, and BSD 4.2 and 4.3	Data General was acquired by EMC in 1999.	Derived from 4.4BSD-Lite and 386BSD. This table does not include external packages from /usr/ports.	Hewlett-Packard.	SGI SVR4-based	(ohs) = Red Hat, Mandrake, SUSE... (def) = Debian, Ubuntu... (gpc) = Gentoo (gpc) = Mandrake/Manadiva (def) = MUSE	Darwin is the Open Source foundation for Mac OS X, descended from NeXTStep	aka MP-RAS	Derived from 4.4BSD-Lite and 386BSD. This table does not include external packages from /usr/pkg.	Forked from NetBSD in 1995. Security emphasis. This table does not include external packages from /usr/ports.	Fujitsu Siemens. Originally called SINIX. Based on DC/OSX from Pyramid. SINIX from Siemens, and SVR4. To be replaced with Solaris by 2008.	SCO UnixWare 7.0.1.6. SCO UnixWare 7.1.1 became Caldera Open Unix and later became SCO again. SVR4-based.	Solaris 2.0-2.6, 7, 8, 9, 10 OpenSolaris (SunOS 5.*) SVR4-based	Solaris 1.* BSD-based	(Digital Units, OS/1) (4+ 400/G (5+ 5.6)	An early DEC Unix. (now Tru64).	Cray Inc., formed from the March 2000 merger of Tera Computer Company and Cray Research	OS notes	
administrative GUI	smitt sanitty wsm	Finder	sysadm	/stand/syinstall pw adduser rmmser vipw chpass	sam		/usr/FC2+ / RHEL4+ system-config* (rh) redhat-config* (suse) suseconfig (rhel) redhat-config* (SUSE) yast2 (def) dpkg-reconfigure (nsl) diskpart	Aqua: System Preferences, NetInfo Manager	sysadm	sushi (ohs)	?	sysadm WebSysAdmin	scodmin	solstice adminroot (nsl 01.01+)	?	checklist (5) sysman	?	checklist etc/install/installxmem	administrative GUI	
managing users	useradd (5+) userdel (5+) luser mkuser chuser rmuser umrck	Finder etc:/adduser edit etc:/passwd	useradd userdel	adduser rmuser pw vipw		useradd userdel usermod	useradd addUserAccount passwdmgmt /usr/Cadmin/bin/people	Aqua: System Preferences / Accounts nutil	useradd userdel usermod sysadm	useradd userdel userinfo usermod user vipw	?	useradd userdel adduser (interactive) usermod user	scodmin userdel userdel	useradd userdel login (usr/sbin/bin/sumner (9+)) groupadd		edit etc:/passwd and create home directory	adduser removuser	admin addgen addrestrict nu scripts	managing users	
TASK \ OS	AIX	AUX	DG/UX	FreeBSD	HP-UX	IRIX	Linux	Mac OS X	NCR Unix	NetBSD	OpenBSD	Reliant	SCO OpenServer	Solaris	SunOS 4	Tru64	Ultrix	UNICOS	OS / TASK	
list hardware configuration	prtconf lscfg lsattr lsdev	?	dg_sysreport -g hardware	sysctl -a dmesg cat /var/run/dmesg.boot prtconf -l reeprom (SPARC only)	ioscan dmesg (if you're lucky) ads model snm (from the SupportPlus CDROM) bdf (file most vendors' d) gresconf machinfo (11.23+) print_manifest	hinv sysinfo -vv	dmesg (if you're lucky) cat /var/log/dmesg prnc* lsdev dmidecode lspci lscap lscsi lsusb lsmod (SUSE) hwinfo sys-devices*	hostinfo ioreg -l system_profiler	prtconf devstat machtype more etc:/com	dmesg more var/run/dmesg.boot cat kern.log/hwlog	sysctl hw dmesg cat /var/run/dmesg.boot pcidump acpidump	autoconf -l showconf uname -p uname -M report -l	hwconfig hw scodmin/DCU (usr/lib/X11/hosts/col/255Sysinfo	prtconf -v (usr/platform)/uname -r / sbin/prtdiag -v (nvidia and amd only) arch -k pointio -v isaioio -v dmesg journal-Eta prtfu cfigstat -l etc:/path_to_inst	dmesg (if you're lucky)	diis -R full ymstat -P hwmgmt-get category (5) hwmgmt-show devices prinfo getinfo sys_check (usr/bin/X11/dxsysinfo	dmesg (if you're lucky)	machid getconf uname -a	list hardware configuration	
unique id useful for licensing	uname -u uname -m lsattr -El xyo@a -systemid	?	?	?	uname -i	?	?	system_profiler SPHardwareDataType grep "Serial Number:" awk '{print \$3}'	?	?	?	?	?	hostid	hostid	?	?	?	unique id useful for licensing	
show/let EEPROM/NVRAM values	bootlist -o -m normal	via	dg_sysctl grep BOOTPATH	?	setboot sim	nvram primenv/ntenv (at command monitor)	dev:/nvram (if you have it) hwclock nvramenv	nvram	?	eepram	eepram	in bdm (at boot stop or ctrl-a)	?	eepram	eepram	(4.0D+) convvar	?	?	show/let EEPROM/NVRAM values	
add device without reboot	cfigmgr -v	?	N/A	cancontrol atacontrol kldload	inf -e ioscan -tC devtype; insf -C devtype	scsiha -pr icconfig -f hw scsiadminswap -b bus -p	udev (2.6+) modprobe kernel insmod hotplug cat/call	(automatic --- autodisksnumber)	devmgmt mktable	acscctl atactl	(auto-detected)	reinsdev changedev	mkdev	devfsadm, pre-Solaris 7 HW 11/99, use: devfsconfig; devlinks; [links, tapes, ports] use /lib/system/bin/hot_add (RDAC) (etc/system/params (RDAC)	dev/MKDEV	(3.2.+) scan scan edf (4.0) scan scan edf; disklabel -rw r2XX label (for disks) (5.x) dformat -k; disklabel -rw disk scan hwmgmt-scan scsi	dev/MAKEDEV	?	add device without reboot	
remove device	rmdev	?	?	?	rmrf	?	?	?	?	?	?	?	?	devfsadm	?	?	?	?	remove device	
tape device	dev/vmt0	dev/tbdk/crk750	dev/vmt0	dev/vta0	dev/vrmt0m	dev/vtpe dev/vntape	dev/vta0	?	dev/vrmtc*	dev/vta0	dev/[e]l[e]r[ai]0-09*	autoconf -l grep TAPE	dev/vt0	dev/vrmt0	dev/vta0	(5.x) dev/vntape dev/vtpe	tpmnt	tape device		
stdin/ stdout/ stderr	?	?	?	dev/fd/012	?	dev/fd/012	dev/fd/012	dev/fd/012	?	dev/fd/012	dev/vtstd dev/vtstd dev/fd/012	?	?	dev/fd/012	?	?	?	?	stdin/ stdout/ stderr	
X kvm config	?	?	?	Xorg -configure xlibconfig	itemap	/usr/bin/X11/xsetmon /usr/gfx/setmon	xorgcfg Xorg -configure system-config-display xlibconfig XF86config -configure redhat-config-xvnc6 etc/X11/3dm	?	xlibconfig XF86cfg XF86config -configure	X -configure	?	hwconfig	ldmconfig (x86) hwconfig; mdkconfig; (etc.)	?	?	?	?	?	X kvm config	
TASK \ OS	AIX	AUX	DG/UX	FreeBSD	HP-UX	IRIX	Linux	Mac OS X	NCR Unix	NetBSD	OpenBSD	Reliant	SCO OpenServer	Solaris	SunOS 4	Tru64	Ultrix	UNICOS	OS / TASK	
read a disk label	lspv -l	?	admddisk -o list admddisk -o list	disklabel -r	diskinfo pdisplay	prtvtoc	fdisk -l	pdisk rawDev -dump Disk Utility	prtvtoc	disklabel -e disk mklabel fdisk	disklabel -e diskName	dkpart -l	fsname	prtvtoc	dkinfo	disklabel -r	chpt -q	?	read a disk label	
whole disk in partition	N/A	?	?	c	?	10	(dev/bda (e.g. if dev/bda1 is a partition)	(non-root partitions are mounted under /Volumes)	s0	c or d sysctl kern.rampartition	c	(dev/isa0/rdisk775? (777-000-999)	dev/1a0 (#=0-1,...)	2	c	c	c	s7	whole disk in partition	
label a disk	mkvg	?	admddisk	fdisk disklabel -wr sysinstall	pvcreate	dvfstool fx -x	cfdisk fdisk c2label	(labels unused)	sysadm fdisk edvtoc prtvtoc mkpart updatecsd labelit	disklabel -wr mklabel	disklabel -E diskName	dksetup	divvy	format prtvtoc (x86) fdisk	format	disklabel -rw	chpt -a	etc:/labelit	label a disk	
partition a disk	mkiv	dp Finder: Apple HD SC Setup	admddisk	fdisk sysinstall	lvcreate sam	fx	parted (if you have it) cfdisk fdisk pdisk (on a MAC) (def) mac-fdisk (on a MAC) (nsl) diskutil	pdisk	fdisk	disklabel -i	fdisk -e diskName	dkpart -e	divvy	format fmulhard	format	disklabel -e	chpt -p	etc:/install/install	partition a disk	
TASK \ OS	AIX	AUX	DG/UX	FreeBSD	HP-UX	IRIX	Linux	Mac OS X	NCR Unix	NetBSD	OpenBSD	Reliant	SCO OpenServer	Solaris	SunOS 4	Tru64	Ultrix	UNICOS	OS / TASK	
kernel	/unix	/unix	/dguv	kernel boot/kernel/kernel	hpux (9) /stand/vmunix (10+)	/unix	boot/vmlinux* boot/bootix (see etc:/lilo.conf or boot/grub/menu.lst)	/mach_kernel	/unix stand/unix	/netbsd	/bsd	/unix stand/unix	/unix	kernel/gemunix platform"/uname -m / kernel/unix platform"/uname -m / kernel/gpuv/unix (7+)	/vmunix	/vmunix	/vmunix	/unicos	kernel	
show/set kernel parameters	vmo ioo schedo	etc:/kconfig Finder	vi /var/build/ system.hostname; reboot	/boot/kernel.conf /boot/loader.conf sysctl etc:/sysctl.conf	sam sysdef kmtune (11+) kctune (11.23+) getconf	sys tune	proc* proc/sys* sysctl etc:/sysctl.conf	/usr/bin/sysctl launchctl limit etc:/launchd.conf	sysdef getconf etc:/conf/cf.d/ quicktune.cfg	sysctl etc:/sysctl.conf	sysctl etc:/sysctl.conf	ldtune cat etc:/sys/cf.d/tune cat etc:/sys/cf.d/tune sysdef -i	etc:/conf/cf.d/configure -x sysdef	sysdef getconf cat etc:/system add add -k	adb	/usr/kvm/vsys/ arch -k /conf	dkern/hwmer sysconfig	adb kalls	?	show/set kernel parameters
limit physical memory	rmss	?	?	?	?	?	mem= (in lilo.conf or boot/grub/grub.conf)	nvram bootargs="maxmem=MB"	?	?	machine memory (at the "boot" prompt)	?	?	?	?	?	?	?	limit physical memory	
loaded kernel modules	genkex	?	?	kldstat	kmadmin -s	?	hmmod	kextstat	?	modstat	modstat	?	modadmin	modinfo	?	?	?	?	loaded kernel modules	
load module	?	?	?	kldload	kmadmin -L	?	modprobe insmod	kextload	?	modload	modload	?	modadmin	modload	?	?	?	?	load module	
unload module	?	?	?	kldunload	kmadmin -U	?	rmmod modprobe -e	kextunload	?	modunload	modunload	?	modadmin	modunload	?	?	?	?	unload module	
make disk bootable	bootboot -a	?	dg_sysctl	bootcfg disklabel	mkboot	dvfstool	(rh) mkbootdisk (def) fdisk -A (and lilo to manipulate mbr)	bless	dklayout	fdisk -i installboot	/usr/mde/installboot/ /usr/mde/bootboot	dksetup	?	installboot /usr/platform/ uname -i lib/fv/fvds.bootdisk.raw_device_file	/usr/kvm/mde/ installboot [kalls] protobootk bootdevice	(4.x+) disklabel -rw 4 [efi/udbf]	?	?	make disk bootable	

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startup scripts	/etc/rc*	?	/etc/rc*	/etc/rc* (4.+) /etc/rc.d* (5+) /usr/local/etc/rc.d*	/etc/rc* (9) /etc/rc.config.d (preferred) /sbin/rc* (10+) /sbin/init.d	/etc/rc* /etc/init.d	/etc/rc* (but may vary) /etc/init.d	/System/Library/StartupItems* /Library/StartupItems*, /etc/rc*	/etc/rc* /etc/init.d	/etc/rc /etc/rc.* /etc/rc.d*	/etc/rc* /etc/rcstart	/etc/rc*	/etc/rc*	/etc/rc* /etc/init.d /sbin/rc* /etc/rc.d (10+) /etc/rc	/etc/rc*	/sbin/init.d; links in /sbin/rc?d	/etc/rc*	?	?	startup scripts
shutdown (& power off if possible)	shutdown -Ph	/etc/shutdown -h Finder	?	shutdown -p now	shutdown -yh 0	/etc/shutdown -y :g0 :d0 -p	shutdown -Ph now shutdown -y :g0 :d0 -p poweroff	halt	?	shutdown -p now	shutdown -hp now	?	shutdown -d0	shutdown -y :g0 :d5	?	?	?	?	?	shutdown (& power off if possible)
run levels ! *normal states for more detail see www.php.de.net/unixrcs.html	2: multiuser 6: reboot	?	?	0: halt and power off 1: single-user mode 6: reboot c: block further logins q: rescue (sys3) file kernel security levels: -1*: permanently insecure 0: insecure 1: secure 2: highly secure 3: network secure	0: shut down s.S: single-user 1: sys admin 2: multiuser 3*: share NFS 4*: share GUI 5: user-defined 6: reboot	0: power-down s.S: single-user 1: sys admin 2: multiuser (no NFS) 3*: multiuser 3*: multiuser 4: user-defined 5: firmware monitor	(set in /etc/initial) 0: halt s.S: 1: vendor-dependent 1: single-user 2: multiuser 3: share NFS 4: user-defined 5: firmware 6: reboot	?	(set in /etc/initial) 0: shutdown s.S: single-user 1: sys admin 2*: multi user 3: share NFS 4: user-defined 5: firmware update 6: reboot	-1: permanently insecure 0*: insecure 1*: secure 2: highly secure	-1: permanently insecure 0*: insecure 1*: secure 2: highly secure	0: power-down s.S: single-user 1: sys admin 2*: multiuser 3-4*: user-defined 5: firmware update 6: reboot	0: firmware monitor s.S: single-user 1: sys admin 2: multiuser 3*: share NFS 4*: user-defined 5: firmware update 6: reboot	?	?	0: shut down 1: single user 2: multi user, no NFS 3: multi user 6: reboot	0: shut down 1: single user 2: multi user, no NFS 3: multi user 6: reboot	?	run levels ! *normal states for more detail see www.php.de.net/unixrcs.html	
show runlevel 1	who -r		who -r	who -r sysctl kern.securelevel	who -r	who -r sysctl kern.securelevel	/sbin/runlevel	(runlevels unused)	who -r	sysctl kern.securelevel	sysctl kern.securelevel	who -r	who -r	who -r	?	who -r	?	who -r	show runlevel 1	
time zone info	/etc/environment (STZ)	/etc/TIMEZONE	/etc/TIMEZONE	/etc/ localtime /usr/share/zoneinfo	/usr/lib/ localtime /etc/TIMEZONE	/etc/ localtime /usr/share/zoneinfo/ /etc/TIMEZONE	/etc/ localtime /usr/share/zoneinfo/	/usr/lib/ localtime /usr/share/zoneinfo/	/etc/ localtime /usr/share/zoneinfo/	/etc/ localtime /usr/share/zoneinfo/	/etc/ localtime /usr/share/zoneinfo/	?	?	/usr/share/ lib/zoneinfo/	?	/etc/zoneinfo	?	?	time zone info	
check swap space	lps -a	/etc/swap -l	admwop -o list -bvt dg.sysreport -p freeswap systat -swap	swapiinfo point -s	swapiinfo	swap -s swap -l	cat /proc/meminfo cat /proc/swaps -free	ls -l /var/vm vm_stat	swap -s swap -l sar -r	swapon -s swap -l	swapon -s swap -l	swap -l	swap -s swap -l	point -s	swapon -s	?	etc/wrapper	check swap space		
bind process to CPU	bindprocesses	?	?	?	?	runon	taskset (sched-utils)	?	?	?	?	?	?	pbind	?	net_create pset_info param	?	?	bind process to CPU	
TASK \ OS	AIX	AUX	DGUX	FreeBSD	HP-UX	IRIX	Linux	Mac OS X	NCR Unix	NetBSD	OpenBSD	Reliant	SCO OpenServer	Solaris	SunOS 4	Tru64	Ultrix	UNICOS	OS / TASK	
"normal" filesystem	jfs	ufs	dg/ux	ufs/tb/ufs2 (5+) ext2	jfs vdfs (11.0+)	efs, xfs	ext2 ext3 ReiserFS	ufs hfs+	vdfs	ffs (was ufs)	ffs (was ufs)	vdfs vdfs (root)	hufs (OpenServer 5) vdfs	ufs vdfs (OpenSolaris)	4.2	(4) ufs (5) AdvFS	ufs	NCIFS CIFS	"normal" filesystem	
volume-based filesystem	jfs	?	admindisk	ec2 vsmum geom (5+) vsmum	jfs (vdfs) LVM VxVM VxVM (S)	xlv, xvm, xfs	LVM, LVM2 EVMS VxVM (S)	?	vdisk VxVM	ec2, raidframe	ec2 raid softraid	vdisk	vdisk	dfs (10+) Solstice DiskSuite VxVM (S)	?	AdvFS LSM	N/A	?	volume-based filesystem	
file system description	/etc/filesystems	/etc/ftab	/etc/ftab	/etc/ftab	/etc/checklist (9) /etc/ftab (10+)	/etc/ftab	/etc/ftab	NetInfo	/etc/vstab	/etc/ftab	/etc/ftab	/etc/ftab	/etc/vstab	/etc/vstab (local) /etc/vstab (remote)	/etc/vstab (local)	/etc/ftab	/etc/ftab	/etc/ftab	file system description	
volume manipulation	smitty vg smitty lvm smitty jfs mkvg; chvg; mvvg mkfs; chfs; mvfs mkfs; crfs; rmfs	?	sysadm	vmum ec2geom geom (5.3+) gpartee (5.3+) gpartee (5.3+) gpartd (5.3+)	vg*, lv*, pv* extendl fsadm	xlv_mgr xvm	c2readm bcreate bvermove bverextend	Disk Utility / fdisk / diskutil	vxva dkconfig	ec2config raidctl	ec2config raidctl boccl	dkconfig dkmirror dkmap	?	zpool (10+) meta* (Solstice DiskSuite; Solstice Volume Mgr (9+)) ?, found in /etc/opt/SCSWmd/ /sbin/	?	AdvFS: mkfdm, mkfst, addvol, showfdm LSM: volassist or volmake, volume, volplex and vold, volpstat	?	etc/install/install	volume manipulation	
create filesystem	crfs	/etc/newfs etc/mkfs	admfileystem	newfs	mkfs newfs	mkfs	mkfs2fs mkreiserfs mkfs.xfs mkfs.*	newfs newfs_jfs newfs_nfs	mkfs	newfs mkefs	newfs	newfs	mkfs newfs	divvy (OpenServer 5) mkfs	newfs mkfs	newfs mkfs	AdvFS: mkfdm AdvFS: newfs MFS: mfs	fs mkfs labelit	create filesystem	
file system debugging and recovery	dfck fsck fsdb	fsck	fsck fsdb	fsck fsdb cfs	fsck fsdb fsdb	fsck cfs xfs_repair	fsck debugfs e2undel	fsck fsdb cfs	?	fsck fsdb cfs	?	fsck fsdb cfs scan_fs	?	fsck fsdb cfs	?	?	?	?	file system debugging and recovery	
create non-0-length empty file	linktemp	?	?	truncate -s size(KMG) filename dd if=/dev/zero of=filename bs=size(KMG) \ count=desired	prealloc	mkfile	dd if=/dev/zero of=filename bs=1024 count=desired	mkfile dd if=/dev/zero of=filename bs=1024 count=desired	dd if=/dev/zero of=filename bs=1m count=desired	dd if=/dev/zero of=filename bs=1m count=desired	dd if=/dev/zero of=filename bs=1024 count=desired	dd if=/dev/zero of=filename bs=1 count=1 seek=desired-1 (sparse file)	mkfile dd if=/dev/zero of=filename bs=1k	dd if=/dev/zero of=filename bs=1024 count=desired	mkfile	dd if=/dev/zero of=filename bs=1024 count=desired	?	?	create non-0-length empty file	
mount CDROM	mount -v cdrfs -o ro -fdevcd /cdrom smitty cdrom	Finder	mount -t cdrom dev:psk.disk/cdrom	mount /cdrom mount -o cd960 mount -o (dev/cdrom /mnt/cdrom requires "Rock Ridge extension" patches, 11+)	psfs, mountd pfcd psfs, mount mount dev:disk/cdrom3 SD_CDROM mount -o (dev/cdrom /mnt/cdrom requires "Rock Ridge extension" patches, 11+)	(see man mountd) mounts automatically when CD inserted)	mount /mnt/cdrom dev:b) mount /cdrom diskutil mount (dev:disk) d	(automatic -- automounter) diskutil mount (dev:disk) d	mount -F cdrs dev:cdrom/cdromX cdrom	mount -t cd960 -o ro dev:cdlra path	mount -t dev:cdlra path	mount -F fs ... sysadm	mount dev:cdlra path	/etc/init.d/vold start; volcheck or mount -F hfs -o ro dev:disk/cdrom2 /cdrom	mount -t hfs -e dev:cdlra /cdrom	?	?	?	mount CDROM	
eject CDROM	?	(manually)	?	cancontrol eject dev/d	?	eject	eject	diskutil eject dev:disk/d0 /Volumes/theCDmountpoint	?	eject cdrom eject cd0 eject -a	cdio eject eject cd0 eject dev:cdlra	?	?	eject cdrom	?	?	?	?	eject CDROM	
create/mount ISO image	mkcd	?	?	mkisofs mkisofsg: mount	nohup psfs, mountd; nohup pfcd; psfs, mount -t iso9660 -x unix path:/cdrom/mountPoint	mkisofs (freeware)	mount -o loop path:/cdrom/mountPoint	kdutil	?	mkisofs -t cd960 image, file directory; vncconfig -c vnd0 image, file; mount -t cd960 dev:vnd0a mountPoint	mkhybrid -o image:iso dir vncconfig vnd0 image:iso && mount -t cd960 dev:vnd0a mountPoint	?	?	mkisofs, DEVICE=lofdm -a labelcd, pathname/image:iso - mount -F hfs -o ro SDEVICE	?	?	?	?	create/mount ISO image	
ACL management	aclget aclput aclstat ls -le	?	?	getfacl setfacl [get, set] f [p] mac	bacl chacl grac setacl	(see man acl)	bacl	?	n/a	?	?	?	?	getfacl setfacl	?	?	?	?	ACL management	
Fibre Channel / SAN	fctstat fcgfi -v fca0	?	?	?	fcmount fcstat fcid fcid fcid fcid	cngpr cfs-config cxfmg cfs_info	?	?	?	(treat as SCSI device)	?	?	?	cfdm fcxadm madsboot mpadsadm	?	?	?	?	Fibre Channel / SAN	
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NFS share definitions	/etc/exports etc/vtab	/etc/exports	/etc/exports	/etc/exports	/etc/exports	/etc/exports	/etc/exports	NetInfo: exports NetInfo: /config/SharePoints	/etc/dfs/dhstab dhshares	/etc/exports	/etc/exports	/etc/dfs/dhstab etc/dfs/sharesab	/etc/exports	/etc/dfs/dhstab etc/dfs/sharesab	/etc/exports	/etc/exports	?	/etc/exports	NFS share definitions	
NFS share command	exports -a	/usr/etc/exports -a	exports -a	kill -s HUP cat /var/run/mount.pid	exports -a	exports -a	/etc/init.d/info-server reload dh) exports -a	kill -s HUP cat /var/run/mount.pid	share shareall	kill -s HUP cat /var/run/mount.pid /etc/rc.d/mount reload	kill -HUP cat /var/run/mount.pid	share shareall	exports -a etc/dfs start	exports -a	exports -a	/sbin/init.d/info start; /sbin/init.d/submount start	?	exports -a	NFS share command	
NFS information	nfostat nfso -as	/usr/etc/nfstat	nfstat	nfostat	nfostat	mount grep nfs	cat /proc/mounts	nfostat	?	nfostat	?	?	showmount nfostat	showmount nfostat	?	?	?	?	NFS information	
name resolution order	/etc/netvc.conf	?	/etc/netvc.conf	/etc/host.conf (4+) /etc/nsswitch.conf (5+)	/etc/nsswitch.conf	6+ : /etc/nsswitch.conf 5.3: /etc/resolv.conf	/etc/nsswitch.conf etc/resolv.conf	NetInfo	ncpconfig etc/netconfig	/etc/nsswitch.conf etc/nsswitch.conf (obsolete)	/etc/resolv.conf	/etc/netconfig	/etc/resolv.conf	/etc/nsswitch.conf getent	(hard-coded into libc)	/etc/nsswitch.conf etc/nsswitch.conf (obsolete)	?	etc/hosts, uncsuend	name resolution order	
show network interface info	ifconfig -a ip -a netstat -i netstat -v baur -E -i canX	netstat -i etc/ifconfig -a	netstat -i ifconfig	ifconfig -a	lanadm lanadm lanadm netstat -an ifconfig lan	/usr/etc/ifconfig -a netstat -an	ifconfig etool	ifconfig -a netstat -a	ifconfig -a ifconfig netstat -an	ifconfig -a netstat -an	ifconfig -A	ifconfig -a netstat -an etool etool	ifconfig -a netstat -an Network Config. Mgr. (GUI)	ifconfig -a	ifconfig -a	ifconfig	ifconfig -a netstat -an	show network interface info		
change IP	smitty chinet chdev -a netaddr= newIP -i can mknetip	ifconfig edit etc/NETADDS	sysadm	edit /etc/vc.conf (option ifconfig, interface name)	sbbs/et_parm initial ifconfig	edit /etc/hosts, sys, id, resolv.conf, TIMEZONE], etc/etool (static route options, ifconfig -l options); reboot	ifconfig (rh) redhat-config-network (fedora) system-config-network (rh) edit: etc/hosts, etc/etool (rh) ifconfig (static route options, ifconfig -l options); reboot	System Preferences: Network NetInfo	ifconfig xcpconfig	edit /etc/vc.conf (ifconfig?) edit etc/ifconfig interface	ifconfig	sysadm (ifconfig temp.) etc/default/net	ifconfig netconfig	edit /etc/hosts, etc/hostsname*, networks, nodename, dashpath.conf, net/modes, net/*hosts) sys-unconfig; reboot (this is overkill for a single IP or hostname change)	edit /etc/hosts etc/hostsname.*	(4.3) netsetup (5.3) sysman net_wizard or netconfig	?	netconfig ifconfig init	change IP	

start DHCP client	dhcpcd	/etc	dhcpcd	dhclient	?	preclaim	dhcpcd dhclient	?	?	dhclient	dhclient interface (runtime)	?	?	dhcpcd interface dhcp	?	dhcpcd interface start	?	?	start DHCP client
ping one packet	ping -c 1 hostname	/usr/etc/ping hostname packetize 1	ping -c 1 hostname	ping -c 1 hostname	ping hostname 10 1 (9) ping hostname -n 1 (10+)	/usr/etc/ping -c 1	ping -c 1 hostname	ping -c 1 hostname	ping -c 1 hostname	ping -c 1 hostname	ping -c 1 hostname	ping -c 1 hostname	ping -c 1 hostname	ping hostname packetize 1	ping hostname packetize 1	ping -c 1	ping hostname	ping one packet	
sniff network	tcpdump [prepost]	?	tcpdump	tcpdump	netll netfrit	snop tcpdump	etherfind tcpdump wireshark (former's) ethereal etherspe	tcpdump	tcpdump	tcpdump	tcpdump	tcpdump	tcpdump	tcpdump	tcpdump	tcpdump	tcpdump	sniff network	
route definitions	netstat -r smitty route	netstat -r	sysadm	add /etc/rc.conf (option defaultrouter) netstat -r route	/etc/rc.config.d/netconf netstat -r	/etc/config/ static-route.options	route (rh) /etc/sysconfig/network (rh) /etc/sysconfig/static- route (deb) /etc/init.d/network (deb) /etc/network	netstat -r	tcpconfig (etc/inet/defaultrouter (etc/inetgate* netstat -r	netstat -r route show (etc/rc.conf (etc/inetgate	netstat -r	netstat -r	netstat -r	netstat -r	netstat -r	netstat -r	route definitions		
telnetd, ftpd banner	/etc/security/login.cfg	/etc/issue	?	/etc/ftpwelcome	/etc/inetd.conf (telnet)	/etc/issue	/etc/issue.net (telnet) [ftp varies: can use top wrappers]	/etc/ftpwelcome	/etc/issue -ftp/etc/issue -ftp/etc/motd/welcome	/etc/mod etc/ftpwelcome (etc/issue (if enabled via if- in etc/gettytab	etc/issue.net etc/ftpwelcome	etc/issue	?	etc/default/telnetd etc/default/ftpd	n/a	etc/issue	?	etc/issue etc/mod	telnetd, ftpd banner
set date/time (from net; apt or other)	ntpdate	date	?	date adjtimex ntp (obj) timed	ntpdate	timeslave	ntpdate date ntpd ntpd	System Preferences/ Date & Time	?	date ntpdate ntpd ntpd (csh)	date ntpdate ntpd ntpd	?	?	ntpdate date	?	ntpdate	date	set date/time (from net; apt or other)	
TASK / OS	AIX	AUX	DG/UX	FreeBSD	HP-UX	IRIX	Linux	Mac OS X	NCR Unix	NetBSD	OpenBSD	Reliant	SCO OpenServer	Solaris	SunOS 4	Tru64	Ultrix	UNICOS	OS / TASK
auditing	audit auditpe auditselect auditrc	?	?	auditd	auditd audevent audmon audsys	aud saconfig sa_reduce sa_integret	(2.6+) auditd [var/log/audit]	?	?	?	smcc (etc/security from nightly)	?	?	audit auditd auditreduce praudit	?	?	?	?	auditing
encrypted passwords in	/etc/security/passwd	/etc/shadow	/etc/shadow	/etc/master.passwd	(etc/passwd (not Trusted) /secure/etc/passwd (Trusted 9) /chfiles/auth/ (10+) /etc/shadow (11.22+)	/etc/shadow	/etc/shadow (may vary)	NetInfo	/etc/shadow	/etc/master.passwd (etc/spwd.db)	/etc/master.passwd (etc/pwd.db)	/etc/shadow	/etc/shadow	/etc/shadow	/etc/passwd	/ch/files/auth (only with Enhanced Security)	/etc/shadow	/etc/utb	encrypted passwords in
min password length admin/legacy root login	/etc/security/user	?	?	/etc/default/login	/etc/login.access; etc/tty	/etc/security	/etc/default/login	etc/tty (doesn't affect ssh)	/etc/default/login	etc/tty	etc/tty	etc/default/login	dev/default/login	/etc/default/passwd	/etc/default/login	dev/ttytab	/etc/securety	/etc/securety	min password length admin/legacy root login
firewall config	grafilo smitty ipsec4 swm network	?	?	ipfw ipf ipf pfctl	/etc/ipf/ipf.conf	/etc/ipf.conf	ipables ipchains ipfwadm (rh) redhat-config- securitylevel	Aqua / System Prof / Sharing / Firewall ipfw	?	ipf etc/ipf.conf etc/ipf.conf pfctl (3.0+) etc/ipf.conf (3.0+)	pfctl etc/ipf.conf	?	?	(9+) /usr/ae/	?	?	?	?	firewall config
TASK / OS	AIX	AUX	DG/UX	FreeBSD	HP-UX	IRIX	Linux	Mac OS X	NCR Unix	NetBSD	OpenBSD	Reliant	SCO OpenServer	Solaris	SunOS 4	Tru64	Ultrix	UNICOS	OS / TASK
show installed software	lsp -L lscv	?	pkginfo	pkg_info ls /var/db/pkg	rmfif, what (HP-UX 9) swlist (HP-UX 10+)	versions showfiles showprods	(rh) rpm -a -i (rh) rpm -qa (rh) yum list installed (deb) dpkg-query -f (deb) dpkg -f (rpm) ls /var/db/pkg* (rpm) etc. 1	ls /Applications Apple System Profiler system_profiler ls /Network/Applications NetworkClient* Applications /Users/*/Applications	displaypkg pkginfo	pkg_info	pkg_info	pkginfo -l syadm	swconfig (OpenServer 5) displaypkg pkginfo	pkginfo prodmg admininst /var/adm/install/contents	?	scrl -i	?	?	show installed software
file is in which package	lsp -w file rpm -qf file	?	?	pkg_add -W file	swlist -f file grep file	versions long grep file	(deb) dpkg --search file (deb) apt file update && apt- file search file (rh) rpm -qf file (rpm) query % file (rpm) qfile file	?	?	pkg_chk pkg_info -f file	pkg_info -f file	?	?	pkgchk -i -p binaryToCheck	?	?	?	?	file is in which package
add software	smitty install rpm -sh usually: scp/yd /sourcecd/ [fileset/ALL]	no (no package system)	sysadm	/stand/sysinstall [usr/ports make pkg_add postinstall (from /usr/ports)]	swinstall	inst swmgr	(rh) rpm -hav (rh) yum install pkg (deb) dpkg (deb) apt-get install pkg (deb) dpkg -i	installpkg drag-and-drop Applications/ Utilities/ installer	pkgadd pkgplus	pkg_add /usr/pkgsrc && make	pkgadd syadm	pkgadd syadm	custom installpkg SCOadmin (GUI)	pkgadd	scrl -l	?	?	?	add software
precompiled binaries of GPLware and freeware	www.linux.com/services/ for/developers/linux/ developed.html http://xipeditb.scs.ucla.edu/ ~xipeditb.html elfreeware.com	see FAQ	http://www.sgi.com/develop/ SGIX-ix86	http://www.freebsd.org http://www.freebsd.org	http://www.sgi.com/develop/ SGIX-ix86 http://www.freebsd.org	http://www.sgi.com/develop/ SGIX-ix86 http://www.freebsd.org	www.linux.com/services/ for/developers/linux/ developed.html http://xipeditb.scs.ucla.edu/ ~xipeditb.html elfreeware.com	www.linux.com/services/ for/developers/linux/ developed.html http://xipeditb.scs.ucla.edu/ ~xipeditb.html elfreeware.com	www.linux.com/services/ for/developers/linux/ developed.html http://xipeditb.scs.ucla.edu/ ~xipeditb.html elfreeware.com	www.linux.com/services/ for/developers/linux/ developed.html http://xipeditb.scs.ucla.edu/ ~xipeditb.html elfreeware.com	www.linux.com/services/ for/developers/linux/ developed.html 								

Rosetta Stone for Unix

X pop-up	usr/dbin/errord.als	?	?	usr/local/bin/xmessage	usr/dbin/errord.als	usr/bin/X11/confirm	usr/X11R6/bin/xmessage	osascript -e 'tell application "Finder" to display dialog "bug"'	?	xmessage	usr/X11R6/bin/xmessage	?	?	SCO UnixWare	usr/dbin/errord.als	?	?	?	?	X pop-up
Wikipedia	AIX	AUX	DGUX	FreeBSD	HP-UX	IRIX	Linux	Mac OS X	NCR Unix	NetBSD	OpenBSD	Reliant	SCO UnixWare	Solaris	SunOS 4	Tru64	Ulrix	UNICOS	Wikipedia	
FAQs (see also faq.org)	www.faq.org/faq/aix-faq.html/assemble.html	chicken.dynlab.org/8000/discuss/faq.html	www.csc.de.com/csc/aix-faq.html	www.freebsd.org/docs/en_US.ISO8859-1/books/faq	www.faq.org/faq/hp-faq/faq/assemble.html	technet.sai.com/library/ultrix-640/browsers.cgi?coll=0650&db=FAQ	www.linuxdoc.org/FAQ/Linux.FAQ www.debian.org/doc/FAQ	www.dareinfo.org/faq.shtml www.macoshints.com		www.netbsd.org/docs	www.openbsd.org/faq	?	scmix.com/SCOFaq	http://openeditrix.org/us/about/faq www.faq.org/faq/Solaris2/FAQ2 www.faq.org/faq/Solaris2/v36/FAQ2 www.stickstix.com/usa/usaadm/resources/faq_sun.html sunbelv.org	www.faq.org/faq/sun-sys-usr-faq	www.2.tru64.org/faq/tru64_faq.php	www.suseco.fr/docs/faq/faq-ulrix.html	www.spikystorm.net	FAQs (see also faq.org)	
mailing list	AIX-L@pmc.com aix-l@listserv.1st.net	n/a	?	lists.freebsd.org/mailman/listinfo	lists.admin@chicken.dynlab.org (major-domo)	?	www.linuxusers.org www.linux.org/faq/faq.html	lists.apple.com		www.netbsd.org/MailingLists	www.openbsd.org/mail.html	?		sun-managers@sunmanagers.org (major-domo)	sun-managers@sunmanagers.org (major-domo)	tru64-unix-managers@eml.gov (major-domo) http://www.gov.fsa/archives/mailling-lists/	devotion.managers@eml.gov (major-domo)	?	mailing list	
mailing list archives	www.mail.chicken.dynlab.org/8000/ADM/ADM.L maur.dreamgroup.com/7-aix-18r1-&w=2	n/a	?	lists.freebsd.org/mailman/listinfo	www.dishworks.sai.com/browsers.cgi?coll=6&db=unix	?	www.linuxmanagers.org/external/linuxmanagers/faq.debian.org	lists.apple.com	?	www.netbsd.org/MailingLists	www.openbsd.org/mail.html	?	?	www.sunmanagers.org/archives www.litech.edu/vanman.html	www.litech.edu/vanman.html	www.archive.org/gov-8000	www.archive.org/gov-8000	?	mailing list archives	
man pages	publib.boulder.ibm.com/infocenter/pseries/VS2/index.jsp?topic.com.ibm.aix.doc/infocenter/base/alphabeticallistofcommands.htm	n/a	?	www.freebsd.org/cgi/man.cgi	docs.hp.com/en/homeuser-man-pages.html hpuserman_pages.html	technet.sai.com/library/ultrix-640/browsers.cgi?coll=6&db=man	www.linuxmanpages.com/ Fedora Core 4: linux/commndr.cgi/superman_pages.php www.fdp.org/docs.html#man	developer.apple.com/documentation/Darwin/Reference/ManPages		man.netbsd.org	www.openbsd.org/cgi-bin/man.cgi	?	sw71.doc.sco.com/en/Navpages	docs.sun.com/app/docs/coll-40-10	?	?	?	?	man pages	
www.freebsd.org/cplman.cgi															?	?			www.freebsd.org/cplman.cgi	
newsgroup(s) and forums groups.google	comp.unix.aix www.fhp.uni-duisburg.de/unix/compunix.html	comp.unix.aix	comp.os.aix	comp.unix.bsd.freebsd.aix	comp.sys.hp.hpux	comp.sys.sgi.admin	comp.os.linux.* (esp answers)	comp.sys.mac.*	comp.sys.ncr	comp.unix.bsd.netbsd.misc	comp.unix.bsd.openbsd.misc	de.comp.os.unix.unix	comp.unix.sco.misc	comp.sys.sun.admin - comp.unix.solaris	comp.sys.sun.admin	comp.sys.dev - comp.unix.tru64	comp.unix.ulrix	comp.unix.cray	newsgroup(s) and forums groups.google	
user groups	www.userblue.org	n/a	?	www.freebsd.org/support.html#user	www.linux.org	?	www.debianhelp.org	www.apple.com/usa/usaunix www.openeditrix.com/developer-mailinglists www.dreamstitch.com/faq/faq.html	www.netbsd.org/gallery/groups.html	indocally.org	?	?	openeditrix.org/us/community/advice/usa/groups/uc-leaders/	?	Fincompex.DUCUS	?	www.care.org/www.excray.com	user groups		
magazines	n/a	n/a	?	www.daemonnews.org	www.technet.sai.com/browsers.cgi?coll=6&db=unix www.linux.org/faq/faq.html	www.sai.com/support/pipeline.html	www.linuxjournal.com www.linux-mag.com www.debianplanet.org	www.macosworld.com/www.darwin.com	?	www.daemonnews.com	indocally.org	?	?	www.suseworld.com sun.com/sun-on-net/finworld	?	www.tru64.org	?	?	magazines	
vendor home page	www.developer.ibm.com/tech/magazines.html www.sai.ibm.com/collaborate/wiki/display/Wiki/PyreHome	n/a	www.csc.de.com/csc/default.asp	www.freebsd.org	unix.hp.com	www.sai.com/software/software.html#UNIX	www.linux.org www.debian.org/genito.org www.netbut.com (32 bit) www.suseworld.com/linux	www.apple.com	net.com/teradata.com	www.netbsd.org	www.openbsd.org	www.fujitsu-siemens.com	www.caldera.com/products/openunix	sun.com/solaris sun.com/bsaadmin sun.com/developes/support/solaris_sun.com solaris1_sun.com openeditrix.org	?	www.tru64-unix.com/sun.com	www.suseco.fr/docs/faq/faq-ulrix.html	www.cray.com	vendor home page	
vendor docs and patches (see also man pages)	www.redbooks.ibm.com www.ibm.com/developerproducts/techsupport/services.ibm.com/server/support/view-aSeries	?	www.csc.de.com/csc/cmboscan/comboscan2.asp?category=09bdocs.asp	www.freebsd.org/handbook www.freebsd.org/relnotes	docs.hp.com/unix.htm	technet.sai.com/www.sai.com/support/patch_intro.html support.sai.com/relnotes relnotes	fdp.org www.linuxdoc.org/annofnd.net/linux.RPM	developer.apple.com/darwin www.fdp.apple.com/support/downloads.html www.apple.com/support/security-security.html	www.info.net.com/c/CRM_GSNW_BrowseByResults.cfm?c=PTD_Article&relates=4&id=Software%20%20MP-RAS&shw=3	www.netbsd.org/Security	www.openbsd.org/docs.html www.openbsd.org/extra.html www.openbsd.org/security.html	service.fujitsu-siemens.com its.siemens.com/faq/faq-us-ccs-en/unix-en.html	www.caldera.com/support	docs.sun.com/suntools/sun.com	?	www.tru64-unix.com/sun.com/docs	N/A (EOL)	www.cray.com/ctvdocs	vendor docs and patches (see also man pages)	
vendor phone (US)	800-426-7378 (800-IBM-SERV)	<i>EOL; unsupported</i>	?	925-674-0783 (FreeBSD Mail)	800-633-3600	800-800-45GI	?	1-800-MY-APPLE	?	?	?	(Germany) +49-5251-80	?	800-USA-4SUN	?	800-344-4825	800-344-4825	?	vendor phone (US)	
wikis	www.ibm.com/developerworks/wiki/display/Wiki/PyreHome	?	?	?	?	?	indocally.org/wiki/Main_Page_(fdp) susewiki.org (SUSE)	wiki.cossproject.org	?	?	www.openbsd-wiki.org	?	?	wiki.sun.com	?	?	?	?	wikis	
TASK / OS	AIX	AUX	DGUX	FreeBSD	HP-UX	IRIX	Linux	Mac OS X	NCR Unix	NetBSD	OpenBSD	Reliant	SCO OpenServer	Solaris	SunOS 4	Tru64 (Digital Unix, OSF/1) (4) 4.0B/G (5) 5.0A	Ulrix	UNICOS	OS \ TASK	

Footnotes

- In System V-based Unices, *run level* relates to booting, shutdown, and single-user mode. In BSD, it has to do with security.
- Freeware or separately downloadable, not part of the base OS. See the [precompiled binaries task](#) or web search.
- Gentoo does not have precompiled packages. It compiles them on your computer. It also has some "overlays" for packages that are not (yet) in the main portage tree. See [http://overlays.gentoo.org/](#)
- `ioscan -fuzm` disk may be helpful here to determine device path.
- Architecture-specific. See [http://www.openbsd.org/cgi-bin/cvsweb/src/distrib/*/*install.md](#) for details.

Universal Command Guide is a large book which covers several of the OSs in this table. See [www.alkcommands.com](#)

UnixGuide.net has a similar table covering fewer Unix versions and a somewhat different set of tasks. See [unixguide.net/cgi-bin/unixguide.cgi](#)

Colin Burschel's **Unix Toolbox** [chxvixmistoibox.shtml](#) is a wonderfully detailed handbook sorted by task area and giving both commands and config file excerpts for Linux and BSD.

codecommands is a search engine giving one-line command examples: [www.codecommands.com/index.php?section=com_crd.html#d-28](#)

Solaris / HP-UX / FreeBSD / Linux / AIX: [www.unixonline.com/quickindex.html](#)

Solaris / HP-UX: [solaris.sun.com/migration/hpux/misessues/](#). If that page no longer exists, get an archived version from the Internet Archive Wayback Machine at [www.archive.org/web/web.php](#)

AIX 4.3.3 / Solaris 8: [www.redbooks.ibm.com/redpapers/pdf/redp0104.pdf](#)

AIX 5.1.0 / Solaris 8: [www.ibm.com/services/aix/relnotes/aixos-relnotes/aixosmpg.htm](#)

Unix / DOS: [volinux.com/TUTORIALS/unix_for_dos_users.html](#)

Unix / TSO mainframe: [volinux.com/TUTORIALS/LinuxTutorialLinuxForMainframes.html](#)

Unix history time line: [www.levenet.com/unix/](#)

Heiner Steven's **AWK dialects page:** [www.shell-lizardo.com/articles/awkcompat.html](#)

Ben Zorn's **Debugging Tools for Dynamic Storage Allocation and Memory Management:** [www.cs.colorado.edu/homecs/zorn/public_html/MallocDebug.html](#)

Most modern Unices conform to the POSIX standards: [en.wikipedia.org/wiki/POSIX](#)

[en.wikipedia.org/wiki/Comparison_of_operating_systems](#)

[en.wikipedia.org/wiki/Comparison_of_Linux_distributions](#)

USENIX: [www.usenix.org/](#)

USENIX System Administrator's Guild: [sage.org/](#)

League of Professional System Administrators: [lopa.org/](#)

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