

Rosetta Stone for Unix

This custom drawing feature now works in Mozilla, in Opera 7.0 or better, and in IE 5.0 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) OR: What do they call that in this world?

Contributions and corrections gratefully [accepted](#). Please help us fill in the blanks. New "tasks" are welcome, too! [PDF version](#) (for 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 [viewer](#)).

[Format version](#)
OS versions in parentheses; e.g. 10+ means version 10 and greater; 9- means version 9 and previous; 3-extra cost

If not specified, commands are in one of the following directories: /usr/bin, /usr/sbin, /sbin, /bin
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

networking

disks

security, backup

kernel, boot, swap

software, patching, tracing, logging

files, volumes

references

TASK \ OS	AIX	Darwin	DG/UX	FreeBSD	HP-UX	IRIX	Linux	NCR Unix	NetBSD	OpenBSD	Reliant	SCO UnixWare	Solaris	SunOS 4	Tru64	Ultrix	UNICOS	OS / TASK
OS notes	By IBM, with input from System V, BSD, etc. etc. Runs mainly on IBM RS/6000 and related hardware.	The Open Source Foundation for Mac OS X, descended from NeXTStep	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.	SGL SVR4-based	(rh) = Red Hat, Mandrake, SuSE... (dh) = Debian, Libranet... (mand) = Mandrake (SuSE) = SuSE	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. Based on DC-OSX from Pyramid, SINIX from Siemens, and SVR4. To be replaced with Solaris by 2008.	SCO UnixWare 7.0.1& SCO UnixWare 7.1.1 became Caldera Open Unix and later became SCO again.	Solaris 2.0-2.6, 7, 8, 9 (Solaris 5.*) SVR4-based	Solaris 1.* BSD-based	(Digital Unix, OSF/1) (4+ = 4.0/FG (5) = 5.0A	An early DEC Unix, superseded by Digital Unix (now Tru64).	Cray Inc., formed from the March 2000 merger of Tera Computer Company and Cray Research	OS notes
administrative GUI	smit smitmy swm	Aqua: System Preferences, NetInfo Manager	sysadm	/stand/sysinstall	sam	/usr/sysadm/bin/sysemgr /usr/sbin/soolchast /usr/Cadmin/bin/*	(rh) rhdath-config* linuxconf (obsolete) (SuSE) yast2 (deb) dpkg-reconfigure (mand) drakconf	sysadm	sushi	?	sysadm WebSysAdmin	scoadmin	solstice adminool smc (S.O.I.U.+)	?	checklist (5) sysman	?	checklist etc/install/install umem	administrative GUI
managing users	lsuser mkuser chuser rmuser	Aqua: System Preferences / Accounts initial	useradd userdel	adduser rmuser pw vipw	useradd userdel usermod	/usr/Cadmin/bin/cpeople	useradd userdel adduser	useradd usermod sysadm	useradd userdel usermod user	useradd adduser (interactive)	sysadm useradd userdel	scoadmin useradd userdel	useradd userdel usermod /usr/sbin/suser (9+)	edit /etc/passwd and create home directory	useradd userdel renewuser	adduser renewuser	xadmin udbgen udbstruc m scripts	managing users
list hardware configuration	prtconf lsconf lsnr lsdev	ioreg -bb system_profiler	dg_sysreport -g hardware	dmesg cat /var/run/dmesg.boot pciconf -l	ioscan dmesg (if you're lucky) adb model sim (from the SupportPlus CDROM) bdf (like most vendors' df) getconf	hiav	dmesg (if you're lucky) proc* lspci (SuSE) hwinfo	prtconf devstat machinttype more /etc/osm	dmesg more /var/run/dmesg.boot cat /kern/msgbuf	dmesg cat /var/run/dmesg.boot	autocconf -l showconf uname -p uname -M mpconf -l	hwconfig hw scadmin/DCU	prconf -v /usr/platform/uname -i / sbin/printmg -v (mand and <u>only</u>) arch -k prtinfo -v sisinfo -v dmesg iosat -En prtinfo cfgadm -l etc/path_to_inst	dmesg (if you're lucky)	dia -R full vinstar -P hwmgmt -get category (5) hwmgmt -show devices prtinfo post_info pstat_check /usr/bin/X11/dxsysinfo	?	machid getconf uname -a	list hardware configuration
show/set EEPROM/NVRAM values	bootlist -o -m normal	nvram	dg_sysctl grep BOOTPATH	?	setboot sim	nvram printenv/setenv (at command monitor)	/dev/nvram (if you have it) hwlock nvstenv	eeprom	opencm (on OpenFirmware architectures)	in bdm (at boot stop or ctrl-a)	?	eprom	eprom	(4.0D+) convsar	?	?	?	show/set EEPROM/NVRAM values
add device without reboot	efmggr -v	(automatic — autodiskmonitor)	N/A	cancontrol autodiskmon kldload	ioscan -fnCdevtype; insf -Cdevtype	scsiha -pr ioconfig -f /hw scsiadminswap -b bus -p	modprobe kernelnd insmod hotplug cardctl	devmgmt mktable	scsictl aactl	?	reinitdev changepdev	mkdev	dev(sadm, pre-Solaris 7 HW 11/99, use: <u>devconfig</u> ; <u>devlinks</u> ; <u>disks</u> , <u>tapes</u> , <u>ports</u>)	MKDEV	(3.2.*) scu scan edit (4.0) scu scan edit; disklabel -rw (2.XX) label (for disks) (5.1) dsmgr -k; disklabel -rw diskn auto	?	?	add device without reboot
tape device	/dev/rmt0	?	/dev/rmt0	/dev/rmt0	/dev/rmt0m	/dev/rmt0 /dev/rmtape	/dev/rmt0*	/dev/rmt0	/dev/rmt0	/dev/rmt0	/dev/rmt0 /dev/iosfstape001 autocconf -l grep TAPE	/dev/rct0	/dev/rmt0	/dev/rmt0	(5.x) /dev/tape /dev/tape	/dev/rmt0x where n=non-rewinding, X= number, A=density	rmtmt	tape device
X kvm config	?	?	?	xfs8config	itemap	?	xfs8config XFrees86 -configure rhdath-config-xtrees6 etc/X11/dm	?	?	?	?	hwconfig	kdmconfig (x86) fbconfig; m54config; (etc.)	?	?	?	?	X kvm config
read a disk label	lspv -l	pdisk rawDev -dump Disk Utility	admppdisk -o list admvdisk -o list	disklabel -r	diskinfo pdislay	prtvtoc	fdisk -l	prtvtoc	disklabel -r disk mblabel	fdisk -r OR disklabel -rl	dkpart -l	fname	prtvtoc	dkinfo	disklabel -r	chpt -q	?	read a disk label
whole disk in partition	N/A	(non-root partitions are mounted under /Volumes)	?	c	?	10	?	s0	c or d sysctl kern.rawpartition	c	/dev/ios/rsdisk??7? (???=000-999)	/dev/1# (#=0,...)	2	c	c	c	c	whole disk in partition
label a disk	mkvg	(labels unused)	admppdisk	fdisk disklabel -wr sysinstall	pvcreate	dvhtool fx -x	efdisk fdisk e2label	sysadm fdisk edvtool edvtool mkpart updatecsd labelit	disklabel -wr mblabel	disklabel -wr	dksetup	?	format prtvtoc	format	disklabel -rw	chpt -a	/etc/labelit	label a disk
partition a disk	mkiv	pdisk	admppdisk	fdisk sysinstall	lvcreate san	fx	parted (if you have it) fdisk pdisks (on a MAC) (deb) mac-fdisk (on a MAC) (mand) diskdrake	fdisk	disklabel -l	fdisk -e OR disklabel -E	dkpart -e	?	format format	format	disklabel -e	chpt -p	/etc/install/install	partition a disk
kernel	unix	/mach_kernel	dgux	/kernel /boot/kernel/kernel	/hpux (9) /stand/vmunix (10+)	unix	/boot/vnlinux* /boot/booth (see /etc/lilo.conf or /boot/grub/menu.lst)	unix /stand/unix	/netbsd	bsd	unix /stand/unix	unix	/kernel/genunix platform/uname -m / kernel/unix platform/uname -m / kernel/spare9/unix (7+)	vmunix	vmunix	vmunix	vmunix	kernel
show/set kernel parameters	/usr/samples/kernel/vmuname (installed with the <u>base</u> <u>sub.samples files</u>) /usr/sbin/network- related)	/usr/sbin/sysctl	vi /var/Build/ system.iosname;; reboot	/boot/kernel.conf sysctl /etc/sysctl.conf	sysadm sysdef kumme (11+) getconf	systeme	proc/* proc/sys/* sysctl etc/sysctl.conf	sysdef getconf etc/conf.cf.d/ quicktime.rfg	sysctl /etc/sysctl.conf	sysctl /etc/sysctl.conf	ldtune cat /etc/opt/cf.d/stune cat /etc/opt/cf.d/mtune sysdef -r	etc/conf/cf.d/configure -x	sysdef getconf cat /etc/system ncc adb -k	adb	usr/kvm/sys/ arch-k/connf	adb kdb	?	show/set kernel parameters
make disk bootable	bosboot -a	bless	dg_sysctl	bootcfg disklabel	mkboot	dvhtool	(rh) mkbootdisk (deb) fdisk -A (and files to manipulate mbr)	fdisk -i installboot	?	dksetup	?	dksetup	installboot (usr/platform/ "uname -m" lib/fsufs/boothk raw_device_file	usr/kvm/mkdev installboot [libv] preboothk boothdevice	(4.x) disklabel -rw -i [afs/adfs]	?	?	make disk bootable
startup scripts	/etc/rc*	/System/Library/ StartupItems*, (Library/StartupItems/ etc/rc*	/etc/rc*	/etc/rc* /usr/local/etc/rc.d	/etc/rc* (9) /sbin/rc* (10+) /sbin/init.d	/etc/rc* (but may vary) etc/init.d	/etc/rc* etc/init.d	/etc/rc*	/etc/rc*	/etc/rc*	/etc/rc*	/etc/rc*	/etc/rc*	/etc/rc*	/etc/rc*	/sbin/init.d; links in /sbin/rc.d	/etc/rc*	startup scripts
run levels 1 #normal states for more detail see www.phdave.net/runlevels.html	0: shut down 1: single user 2: multiuser 3: secure 4: highly secure 5: network secure 6: reboot	?	?	-1: permanently insecure 0: insecure 1: secure 2: highly secure 3: share NFS 4*: start GUI 5: user-defined 6: user-defined	S.S: single-user 1: sys admin 2: multiuser (no NFS) 3: multiuser 4: user-defined 5: firmware monitor	(set in /etc/inittab) 0: halt S.S.1: vendor-dependent 1: single-user 2-5*: multiuser 6: reboot	0: shutdown S.S: single-user 1: sys admin 2*: multi-user 3: share NFS 4: user-defined 5: firmware 6: reboot	-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: power-down if possible 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 1 #normal states for more detail see www.phdave.net/runlevels.html
show runlevel 1	who -r	(runlevels unused)	who -r	sysctl kern.securelevel	who -r	who -r	/sbin/runlevel	who -r	sysctl kern.securelevel	sysctl kern.securelevel	who -r	who -r	who -r	?	?	?	?	show runlevel 1
time zone info	/etc/environment (STZ)	/usr/share/zoneinfo/	?	/etc/ localtime /usr/share/zoneinfo	?	/usr/lib/ tztab	/usr/share/zoneinfo/	/usr/lib/ locale/TZ	/usr/share/zoneinfo/	/usr/share/zoneinfo/ /etc/localtime	?	?	/usr/share/lib/zoneinfo/	?	?	?	?	time zone info
check swap space	lspv -a	ls -l /var/vm vm_stat	admswap -o list -buv dg_sysreport -p freeswap sysat -swap	swapinfo putut -s	swapinfo	swap -s swap -l	swapon -s cat /proc/meminfo cat /proc/swaps free	swap -s swap -l sar -r	swapctl -l	swapctl	swap -s swap -l	swap -l	swap -s swap -l	pstat -s	swapon -s	?	/etc/swapper	check swap space
TASK \ OS	AIX	Darwin	DG/UX	FreeBSD	HP-UX	IRIX	Linux	NCR Unix	NetBSD	OpenBSD	Reliant	SCO UnixWare	Solaris	SunOS 4	Tru64	Ultrix	UNICOS	OS / TASK

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"normal" filesystem	jfs ufs ufs+	ufs	dg/ux	ufs	ufs vxfs (11.0+)	efs, xfs	ext2 ext3 ReiserFS	vxfs	ifs (was ufs)	ifs (was ufs)	vxfs ufs (root)	ufs	4.2 (4) ufs (5) AdvFS	ufs	NCIFS C2FS	"normal" filesystem			
volume-based filesystem	jfs ?	?	?	ccd vinum	jfs (vxfs) LVM XVMM (S)	xlv, xvm, xfs	LVM, LVM2 EVMS XVMM (S)	vdisk VXVM	ccd, raidframe	ccd raid	vdisk	Solstice DiskSuite XvMM (S)	?	AdvFS LSM	N/A	?	volume-based filesystem		
file system description	/etc/filesystems	NetInfo	/etc/fstab	/etc/fstab	/etc/checklist (9) etc/fstab (10+)	/etc/fstab	/etc/fstab	/etc/vfstab	/etc/fstab	/etc/fstab	/etc/vfstab etc/dktab	/etc/vfstab (local) etc/mtab (remote)	/etc/fstab	/etc/fstab AdvFS: etc/fdms	/etc/fstab	/etc/fstab	file system description		
volume manipulation	smitty vg smitty lv smitty jfs mkvsc: chvg: rmvg mkfs; chfs; mls mkfs; crfs; mfs	Disk Utility / pdisk	sysadm	vinum ecdfconfig	vg*; lv*; pv* extendfs fsadm	xlv_mgr xvm	e2fsadm lvcreate lvremove lvextend	vxva	ccdfconfig raidctl	ccdfconfig raidctl	dfconfig dkmerror dkmap	meta* (Solstice DiskSuite; Solaris Volume Mgr (9+)) ?: found in /usr/opt/SUNWw/ sbin/	AdvFS: mkfdm, mkfsct, adfsol, showfdm LSM: volassist or volmake, volume, volplex and volsd, volprint	?	etc/install/install	?	volume manipulation		
create filesystem	crfs	newfs newfs_hfs newfs_mdos	admfilesystem	newfs	mkfs newfs	mkfs	mkfs2fs mkreiserfs mkdosfs	mkfs	newfs makefs	newfs	mkfs newfs	newfs mkfs	AdvFS: mkfdm UFS: newfs MFS: mfs	newfs mkfs	bb mkfs labelit	?	create filesystem		
create non-0-length empty file	mktemp	mkfile dd if=/dev/zero of=filename bs=1024 count=desired	?	truncate -s size[KMG] filename dd if=/dev/zero of=filename bs=size[kb mg g count=desired	prealloc	mkfile	dd if=/dev/zero of=filename bs=1024k 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=1024k count=desired	mkfile dd if=/dev/zero of=filename bs=1k	dd if=/dev/zero of=filename bs=1024 count=desired	mkfile	mkfile	dd if=/dev/zero of=filename bs=1024k count=desired	?	?	create non-0-length empty file	
mount CDROM	mount -t cd960 -o ro /dev/cd0 cdrom system cdrom	(automatic autodisksmounter)	mount -t cdrom /dev/pdsk/blk/cdrom	mount /cdrom mount /cd960	gfs_mount pfsd pfs_mount mount /dev/disk/cvtd/ SD_CDROM	(mounts automatically when CD inserted)	mount /mnt/cdrom (deb) mount /cdrom	mount -F cd960 /dev/cd0s	mount /dev/cd0s path	mount -t cd960 -r /dev/cd0 path	mount -F hs ... sysadm	mount /dev/cd0 path	etc/mnt.d/vold start; voldcheck -o mount -F hfs -o ro /dev/disk/c06a02/cdrom	mount -t hfs -r /dev/cdrom	mount /dev/disk/cdromXa mnt mount -t cd960 -o noeversion /dev/disk/cdrom3/cdrom	?	?	mount CDROM	
TASK / OS	AIX	Darwin	DG/UX	FreeBSD	HP-UX	IRIX	Linux	NCR Unix	NetBSD	OpenBSD	Reliant	SCO UnixWare	Solaris	SunOS 4	Tru64	Ultrix	UNICOS	OS / TASK	
NFS share definitions	/etc/exports etc/stab	NetInfo: exports NetInfo: /config/SharePoints	/etc/exports	/etc/exports	/etc/exports	/etc/exports	/etc/exports	/etc/dfs/dfstab dfshares	/etc/exports	/etc/exports	/etc/dfs/dfstab etc/dfs/sharesab	/etc/exports	/etc/dfs/dfstab dfshares	/etc/exports	/etc/exports	?	/etc/exports	?	NFS share definitions
NFS share command	exportfs -a	kill -s HUP `cat /var/run/mount.pid`	exportfs -a	exportfs -a	kill -s HUP `cat /var/run/mount.pid`	exportfs -a	etc/init.d/nfs-server etc/initial.d/nfs-server (rh) exportfs -a	share shareall	kill -s HUP `cat /var/run/mount.pid` etc/cr.d/mount_reload	kill -HUP `cat /var/run/mount.pid`	share shareall	exportfs -a etc/nfs start	exportfs -a	exportfs -a	/sbin/init.d/nfs start; /sbin/init.d/nfs mount start	?	exportfs -a	?	NFS share command
name resolution order	/etc/netsc.conf	NetInfo	/etc/netsc.conf	/etc/netswitch.conf (4+) etc/netswitch.conf (5+)	/etc/nsswitch.conf	6+; /etc/nsswitch.conf 5.3; /etc/resolv.conf	/etc/resolv.conf	teponfig etc/netconf	etc/nsswitch.conf etc/resolv.conf	/etc/resolv.conf	etc/netconf	?	etc/nsswitch.conf getent	(hardcoded into libc)	/etc/nsc.conf	?	/etc/hosts.usrnamed	?	name resolution order
show network interface info	ifconfig -a ifconfig -a ifconfig -a	ifconfig -a	netstat -i ifconfig	ifconfig -a	lanadamin landiag lanecan netstat -in ifconfig lanx	ifconfig -a ifconfig -ia	/sbin/ifconfig	ifconfig -a ifconfig netstat -in	ifconfig -a netstat -in	ifconfig -A	ifconfig -a netstat -in etherstat cxiinfo	ifconfig -a netstat -in Network Config. Mgr. (GUI)	ifconfig -a netstat -in	ifconfig -a	ifconfig -a netstat -in	ifconfig	ifconfig -a netstat -in	?	show network interface info
change IP	smitty chinat chdev -a netaddr= newIP -1 en0	System Preferences: Network NetInfo	sysadm	edit /etc/rc.conf (option defaultrouter) ifconfig /sbin/set_parms initial ifconfig	lanadamin landiag lanecan netstat -in ifconfig lanx	(rh) edit: /etc/hosts, sys_id, network.conf, TIMEZONE, etc/ncfmg/ etc/ncfmg/ (static-route, options, ifconfig-1: options); reboot	(rh) edit: /etc/hosts, sys_id, network.conf, TIMEZONE, etc/ncfmg/ etc/ncfmg/ (static-route, options, ifconfig-1: options); reboot	ifconfig teponfig	edit etc/ifconfig.interface dheicent	edit /etc/hostname.driver vi /etc/default/inet	sysadm ifconfig (temp.) vi /etc/default/inet	netconf	edit: /etc/hostname.conf, hosts, hostname *, networks, nodename, dumpname.conf, net/*hosts	edit: /etc/hosts etc/hostname,*	(4.x) netsetup (5.x) sysman_net_wizard or netconf	?	netconf ifconfig initif etc/install/install	?	change IP
ping one packet	ping -c 1 hostname	ping -c 1 hostname	ping -s -c 1 hostname	ping -c 1 hostname	ping hostname 10 1 (9) ping hostname -a 1 (10+)	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 packersize 1	ping hostname packersize 1	ping -c 1	?	ping hostname	ping one packet		
sniff network	iptrace iprepport	tcpdump	?	tcpdump	netll netfuit	snoop tcpdump	etherfind tcpdump ethercal etherape	tcpdump	tcpdump	tcpdump	tcpdump	tcpdump	snoop	etherfind	tcpdump	?	?	?	sniff network
route definitions	netstat -r smitty route	netstat -r	sysadm	edit /etc/rc.conf (option defaultrouter) netstat -r route	etc/rc.conf.d/netconf netstat -r	etc/config/ static-route.options	route (rh) etc/sysconfig/network (rh) etc/sysconfig/static- routes (deb) etc/init.d/network (deb) etc/network	teponfig etc/mnt/defaultrouter etc/inet/gate*	netstat -r route show route show	netstat -r	netstat -r	etc/defaultrouter etc/notrouter etc/gateways in:router netstat -r route add	etc/defaultrouter (kernel: rtwak or adb to disable forwarding)	etc/routes	?	netstat -r	?	route definitions	
telnet, ftpd banner	/etc/security/login.cfg	/etc/ftpwelcome	?	/etc/ftpwelcome	etc/inet.conf (telnet)	etc/issue	etc/issue.net (telnet) (ftp varies; can use tcp wrappers)	etc/issue -Rftpetc/issue -Rftpetc/mgs/welcome	etc/motd etc/ftpwelcome	etc/issue.net etc/ftpwelcome	etc/issue	etc/default/telnetd etc/default/ftpd	n/a	etc/issue	?	etc/issue etc/motd	?	telnet, ftpd banner	
TASK / OS	AIX	Darwin	DG/UX	FreeBSD	HP-UX	IRIX	Linux	NCR Unix	NetBSD	OpenBSD	Reliant	SCO UnixWare	Solaris	SunOS 4	Tru64	Ultrix	UNICOS	OS / TASK	
encrypted passwords in	/etc/security/passwd	NetInfo	/etc/shadow	etc/master.passwd /etc/files/auth/ (10+) etc/shadow (11.22+)	etc/passwd (not Trusted) /secure/etc/passwd (Trusted 9) /hcf/files/auth/ (10+) etc/shadow (11.22+)	etc/shadow (etc/shadow may vary)	etc/shadow (etc/shadow may vary)	etc/shadow	etc/master.passwd (etc/pwd.db)	etc/master.passwd (etc/pwd.db)	etc/shadow	etc/shadow	etc/shadow	etc/passwd	hcf/files/auth (only with Enhanced Security)	etc/shadow	etc/tadb	?	encrypted passwords in
allow/deny root logins	/etc/security/user	/etc/ttyd (doesn't affect ssh)	/etc/default/login	/etc/login.access; etc/ttyd	etc/security	etc/default/login	etc/security	etc/default/login	etc/ttyd	etc/ttyd	etc/default/login	/dev/default/login	etc/default/login	/dev/ttytab	etc/securitytty	etc/securitytty	adrestrict -R	?	allow/deny root logins
firewall config	?	Aqua / System Prefs / Sharing / Firewall	?	ipfw ipf pf	etc/opt/ipf.conf	etc/ipf.conf	iptables ipchains ipfwadm (rh) redhat-config- securitylevel	?	etc/ipf.conf	pfctl etc/pf.conf	?	?	(9+) /usr/asst/	?	?	?	?	?	firewall config
TASK / OS	AIX	Darwin	DG/UX	FreeBSD	HP-UX	IRIX	Linux	NCR Unix	NetBSD	OpenBSD	Reliant	SCO UnixWare	Solaris	SunOS 4	Tru64	Ultrix	UNICOS	OS / TASK	
show installed software	lspp -L	ls /Applications [Apple System Profiler system_profiler ls /Network/Applications /Network/Users*/ Applications /Users*/Applications	pkginfo	pkg_info	mfinfo, what (HP-UX 9) swlist (HP-UX 10+)	versions showfiles showprods	(rh) rpm -a -i (rh) rpm -y (rh) yum list installed (deb) dpkg-query (deb) aptitude (deb) dpkg -l	displaypkg pkginfo	pkg_info	pkg_info	pkginfo -l sysadm	swconfig displaypkg pkginfo	pkginfo prodmg adminool /var/sadm/install/contents	?	setid -i	?	?	?	show installed software
add software	smitty install_all smitty install /usr/lib/install/inst install_cmd -a -d /dev/ice -e "N" -g "X"	installpkg drag-and-drop	sysadm	/stand/systinstall /usr/ports make pkg_add	swinstall	inst swmgp	(rh) rpm -hiv (rh) yum install pkg (deb) dpkg-query (deb) apt-get install pkg (deb) dpkg -i	pkgadd pkginfo	pkg_add usr/pkgsrc && make	pkg_add usr/ports && make	pkgadd sysadm	custom installpkg SCOAdmin (GUI)	pkgadd	?	setid -l	?	?	?	add software
precompiled binaries of GPLware and freeware	www-1.ibm.com/servers/ aix/products/aixos/linux/ download.html http://pub.FreeBSD.org/ sourceforge.net http://www.debian.org/ http://www.freebsd.org	?	?	http://freebsd.org/ http://www.freebsd.org	http://www.freebsd.org/ http://www.freebsd.org	http://www.freebsd.org/ http://www.freebsd.org	www.linux.org linux.bucows.com sourceforge.net www.debian.org (deb) http://www.debian.org (deb) packages.debian.org	?	http://www.netbsd.org/pub/ NetBSD/packages	http://www.openbsd.org/ pub/OpenBSD-cvsion2/ packages	?	www.caldara.com/ skunkware	www.sourceforge.com/ www.bliswave.org	www.tru64unix.com/pau/ demo/ http://www.zak3.de/cvs/ freeware/bl_packages.html	?	?	?	?	precompiled binaries of GPLware and freeware
C compiler	/usr/bmccx/bin/cc	/usr/bin/cc (gcc)	/usr/sde/default/usr/bin/cc	/usr/bin/cc (gcc)	/opt/softbench/bin/cc (S) bin/cc (9) /usr/bin/cc (10+; not ANSI; kernel builder only)	/opt/MIPSpro/ bin/cc (S) usr/bin/cc	gcc	/usr/bin/cc (MetaWare)	/usr/bin/cc	/usr/bin/cc	/usr/bin/cc	/usr/bin/cc	/opt/SUNWspw/ bin/cc (S)	/usr/bin/cc	/usr/bin/cc	/usr/bin/cc	/opt/ct/bin/cc	?	C compiler
show patch level and/or patches	instfix -i oslevel -r	sw_vers Apple>About This Mac ls/Library/Receipts uname -a lsbom cat /System/Library/ CoreServices/ SystemVersion.plist	what dgux	uname -a	swlist -l product grep PHOHomeString	versions -b grep patch (6.4) uname -R (6.5+)	(rh) rpm -q (deb) dpkg -s	pkginfo -l	cat /kern/version uname -a	sysctl -n kern.version	uname -a pkginfo grep EKS	swconfig -P	showrev -p prodmg (2.6+) patchdd -p	showrev -p (if you're lucky)	?	?	?	?	show patch level and/or patches

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patch tool	install smitty update_all	System Preferences / Software Update softwareupdate	dg_systeop-r patches	(cvsup or cvs to update, then rebuild)	update (9) swinstall (10+)	inst wmgr	apt-get update apt-get upgrade (rh) update (rh) yum update (man) urpmi	pkgadd pkginstall	cvs	cvs-CTM	pkgadd sysadm	?	installpatch (2.5.1-) patchadd (2.6+) pkgadd /usr/sbin/smpatch (9+)	n/a	setld -i dupatch	?	?	patch tool	
configure/show runtime linking	dump -H ldd	otool -L	?	ldd ldconfg kldstat	char ldd (1+) kmadmmin	ldd rid _RLD_LIST	ldconfg ldconfg ldconfg ldconfg ldconfg	ldd ldconfg	ldd mm ldconfg	ldd ldconfg	ldd	?	crle ldd pldd modinfo LD_PRELOAD	ldd	odump -Dl ldd	?	?	configure/show runtime linking http://rtn-2006.com/ArnaudRecipes/sharedlib.html	
link library path	SLIBPATH	SDYLD_LIBRARY_PATH man dyld	SLIBPATH	SLD_LIBRARY_PATH	SLD_LIBRARY_PATH (64-bit) SSLIB_PATH (32- or 64-bit)	SLD_LIBRARY_PATH SLD*_PATH	SLD_LIBRARY_PATH SLD*_PATH	SLD_LIBRARY_PATH	SLD_LIBRARY_PATH	?	SLD_LIBRARY_PATH	?	SLD_LIBRARY_PATH	SLD_LIBRARY_PATH	SLD_LIBRARY_PATH	SLD_LIBRARY_PATH	?	SLDPATH	link library path
tracing utility	trace syscalls truss	krtrace; kdump k_usage	7-tdg_strace (~=>4.20M/DG)	krtrace truss	trace (freeware) tnc (11+, freeware)	par ptrstat	strace	truss	krtrace krtrace	krtrace ptrace	truss scotat	?	truss somass	trace	trace	truss	?	cultr jmptrace	tracing utility
define user defaults	/etc/security/mkuser.default /etc/environment	/usr/bin/defaults	admuser -o set	/etc/login.conf	/etc/default /etc/PATH /etc/MANPATH /etc/default*	/etc/default/login /etc/profile	/etc/profile /etc/security /etc/skel	/etc/default/login /etc/profile /etc/security	/etc/profile /etc/skel*/login.conf	/etc/profile /etc/skel*/login.conf	/etc/default/login /etc/profile /\$HOME/.profile	?	/etc/default/login /etc/profile /etc/security	/etc/profile	/etc/skel /etc/profile	/etc/skel /etc/profile	adlgen nu scripts	define user defaults	
esh global login	?	/etc/csh.login	?	/etc/csh.login	/etc/csh.login	/etc/cshrc	/etc/csh.rc	/etc/csh.login	/etc/csh.login	/etc/csh.login	?	/etc/csh.login	?	/etc/csh.login	?	/etc/login	?	esh global login	
default syslog and messages	/var/adm/syslog /var/adm/messages	/var/log/system.log	/var/adm/messages	/var/log/messages	/var/adm/syslog/syslog.log /var/adm/wlog /var/spool/inqueue/syslog	/var/adm/SYSLOG /var/adm/sulog	/var/log/syslog /var/log/messages /var/adm/messages /var/log/maillog	/var/adm/streams /var/adm/ucerror /etc/csm	/var/log/messages	/var/log/messages	/var/adm/log/messages	/usr/adm/syslog /var/adm/logosmlog	/var/adm/messages /var/log/syslog	/var/adm/messages /var/log/syslog (sendmail)	/var/adm/messages /var/adm/syslog.dated (kern, auth, daemon, lpr, syslog, user) /var/adm/binary.errlog	/usr/adm/messages /var/adm/syslog.dated (kern, auth, daemon, lpr, syslog, user) /var/adm/binary.errlog	usr/adm/messages	default syslog and messages	
system error reporting tool	errpt	Console /var/log/crash.log, dmesg	admyslog -o report	dmesg send-pr	dmesg sysdiag (9 and early10) stm/csm/nstst/xsm (10.20+) EMS (from support CD)	dmesg	sysmon amtsylog availmention indmonitor syserrpanel	dmesg	odm errpt	dmesg cat /kern/msgbuf	dmesg	sysadm log3 WebSysAdmin	dmesg	prtdiag	dmesg	(4.x) uerf; dia (DECvent) (5.x) System errors) EVM (evmgct; evmshow) (Hardware errors) dia; ca (Compaq analyze)	uerf	errpt	system error reporting tool
performance monitoring	http://hp.software.ibm.com/aix/tools/perfbooks/perfmtr	vm_stat; nfstst; k_usage; ss_usage; top	?	fsstat; nfstst; systat; vfstat; ustat; top; iostat	top; sar; vmstat; iostat; nfstst; netstat; vmstat; lscpu (5)	pop; dktst; peakstat; sar; osview; rview; ecstat; linkstat; netstat; nfstst; nfviv; netdevic; routeriv; nstst; top	vmstat procinfo -D	sar; pinfo -v; iostat; netstat; nfstst; pppstat; nfstst; sampstat; ustat; top	iostat; netstat; systat; vmstat	iostat; netstat; systat; vmstat	vmstat; mpmstat; dktst; sar; netstat; scstat	?	sar; iostat; kstat; mpmstat; netstat; nfstst; prstat; trapstat; vmstat; ptree	iostat; netstat; vmstat	iostat; nfstst; vmstat /usr/opt/vs/db/bin/sar	iostat; nfstst; vmstat /usr/opt/vs/db/bin/sar	je; mppview; xmpview; sam; csam	performance monitoring	
match process to file or port	?	lsdf	?	lsdf sockstat	?	fuser	lsdf netstat -atup	fuser	lsdf	?	fuser	?	fuser	lsdf ² pfiles	?	?	?	match process to file or port	
TASK / OS	AIX	Darwin	DG/UX	FreeBSD	HP-UX	IRIX	Linux	NCR Unix	NetBSD	OpenBSD	Reliant	SCO UnixWare	Solaris	SunOS 4	Tru64	Ultrix	UNICOS	OS / TASK	
FAQs (see also faq.org)	www.faq.org/faq/	www.darwininfo.org/	www-csc.dg.com/csc/dgswfaq1.asp	www.freebsd.org/doc/en_US.ISO8859-1/books/faq	www.faq.org/faq/	techpubs.sgi.com/library/pl/cgi; bin/binware.cgi?coll=0650 &db=FAQ	www.linuxdoc.org/FAQ/FAQ.html	?	www.netbsd.org/Documentation	www.openbsd.org/faq	sco.com/SCOFAQ/	?	www.faq.org/faq/solaris2/	www.faq.org/faq/	www2.tru64.com/faq/tru64_faq.php	www.supelec.fr/decs/faq/faq-ultrix.html	www.spkynorman.net	FAQs (see also faq.org)	
mailing list	AIX-L@nccc.jnl.ibm.com (LISTSERV)	lists.apple.com	?	www.freebsd.org/handbook/resources.html#EFRESOURCES-MAIL	hpux-admin@hpl.hp.com (majordomo)	?	www.linux.org/help/lists.html	?	www.netbsd.org/MailingLists	www.openbsd.org/mail.html	?	sun.com/sun/managers/eng/majordomo	sun-managers@sunmanagers.access.ac.edu (majordomo)	tru64-unix-managers@ornl.gov (majordomo)	deccatun-managers@ornl.gov (majordomo)	?	?	mailing list	
mailing list archives	www.marist.edu/lnba/w/index.php/ADSM-L	lists.apple.com	?	www.freebsd.org/search.html#mailinglists	www.dutchworks.nl/hbna/hpssvadmin	?	www.linuxmanagers.org/eipermail/linuxmanagers/lists.debian.org	?	www.netbsd.org/MailingLists	www.openbsd.org/mail.html	?	www.sun.com/sun/managers/eng/archives.html	www.latech.edu/sunnan.html	www.archive.org.gov/8000	www.archive.org.gov/8000	?	?	mailing list archives	
newgroup(s) groups.google	comp.unix.aix	comp.sys.mac.*	?	comp.unix.freebsd.org	comp.sys.hp.hpux	comp.sys.sgi.admin	comp.os.linux.* (esp answers)	comp.sys.ncr	comp.unix.netbsd.org	comp.unix.openbsd.org	ds.comp.os.unix.solaris	comp.unix.sco.misc	comp.sys.sun.admin-comp.unix.solaris	comp.sys.sun.admin	comp.sys.decc-comp.unix.tru64	comp.unix.ultrix	comp.unix.crvv	newgroup(s) groups.google	
user groups	www.userbag.org	www.apple.com/usergroups	?	www.freebsd.org/support.html#user	www.interest.org	?	www.debianhelp.org	?	www.netbsd.org/gallery/groups.html	deadly.org	?	?	?	?	Compass/DECUS	?	www.cru.org	user groups	
magazines	www.developer.ibm.com/library/aiptet	www.macworld.com	?	www.daemonews.com	www.hphtronics.com	www.sgi.com/support/pipeline.html	www.linuxjournal.com	?	www.rellhat.com	www.daemonews.com	undesafly.org	?	www.sunworld.com	www.daemonews.com	www.tru64.org	?	?	magazines	
vendor home page	www.developer.ibm.com/techmap/aixsm.html	www.apple.com	www-csc.dg.com/csc/default.asp	www.freebsd.org	unix.hp.com	www.sgi.com/software/software.html#IRIX	www.linux.org	www.rellhat.com	www.netbsd.org	www.openbsd.org	www.fujitsu-siemens.com	www.caldera.com	sun.com/solaris	sun.com/developers/support	www.tru64unix.com	www.supelec.fr/decs/faq/faq-ultrix.html	www.crvv.com	vendor home page	
vendor docs and patches	www.gtkbooks.ibm.com	developer.apple.com/library	www-csc.dg.com/csc/custdoc.asp?category=069/docs.asp	www.freebsd.org/handbook	docs.hp.com	www.sgi.com/support/support.sgi.com	www.linuxdoc.org/	www.netbsd.org/Security	www.openbsd.org/Security	service.fujitsu-siemens.com	www.caldera.com/support	sun.com/solaris	docs.sun.com	www.tru64unix.com/pa/docs	N/A (EOL)	www.crvv.com/craydoc	vendor docs and patches		
vendor phone (US)	AIX: 800-237-5511 IBM hardware: 800-426-7378	1-800-MY-APPLE	?	925-474-0783 (FreeBSD Mail)	800-633-3600	800-800-4SGI	?	?	?	?	(Germany) +49-5251-80	?	800-USA-4SUN	?	800-344-4825	800-344-4825	?	Tru64 (Digital Unix, OS/1) (4) 40FG (5) 5.8A	vendor phone (US)
TASK / OS	AIX	Darwin	DG/UX	FreeBSD	HP-UX	IRIX	Linux	NCR Unix	NetBSD	OpenBSD	Reliant	SCO UnixWare	Solaris	SunOS 4	Tru64 (Digital Unix, OS/1) (4) 40FG (5) 5.8A	Ultrix	UNICOS	OS / TASK	

Footnotes

- In System V-based Unixes, *run* level relates to booting, shutdown, and single-user mode. In BSD, it has to do with security.
- Freeware; not part of the OS. See the [precompiled binaries task](#) or web search.

Universal Command Guide is a large book which covers several of the OSs in this table. See <http://www.allcommands.com>

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

coolcommands.com is a search engine giving one-line command examples: http://www.coolcommands.com/index.php?option=com_content&Itemid=28

Solaris / HP-UX / FreeBSD / Linux / AIX: <http://www.unixporting.com/quickguide.html>

Solaris / HP-UX: <http://solsd.sun.com/migration/hpux-migr8issues/>

Unix history time line: <http://www.lveency.com/unix/>

Heiner Steven's AWK dialects page: <http://www.shellorado.com/articles/awkcompat.html>

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Ben Zorn's Debugging Tools for Dynamic Storage Allocation and Memory Management: http://www.cs.colorado.edu/homes/zorn/public_html/MallocDebug.html

Join the USENIX System Administrator's Guild: <http://www.usenix.org/sage>

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