

Rosetta Stone for Unix

A Sysadmin's Universal Translator (ROSETTA STONE) OR What do they call that in this world?

OPERATING SYSTEM Contributions and corrections gratefully [accepted](#). Please help us fill in the blanks. New "activities" are welcome, too!
[framed version](#), [PDF version](#) (Print the PDF version with landscape orientation for best result.) Based on [Pat Wilson's version](#).
 OS versions in parentheses; e.g. 10+ means version 10 and greater; 9- means version 9 and previous. \$=extra cost

ACTIVITY	AIX	DG-UX	FreeBSD	HP-UX	IRIX	Linux (rh) = Red Hat, Mandrake, Suse,... (deb) = Debian, Corel, Storm,....	NetBSD	OpenBSD	Solaris	SunOS	Tru64 (Digital Unix, OSE/1)	Ultrix	OS / ACTIVITY
list hardware configuration	lscfg lsattr lsdev	dg_sysreport -g hardware	dmesg	ioscan dmesg (if you're lucky) adb stm (from the SupportPlus CDROM)	hinvt	dmesg (if you're lucky) /proc/epuinfo /proc/pci	dmesg cat /kern/msgbuf	dmesg	prtconf -v /usr/platform/`uname -j`/sbin/prding -v psrinfo -v isainfo -v dmesg iostat -En	dmesg (if you're lucky)	uerf -R -o full (if you're lucky)	uerf -R -o full (if you're lucky)	list hardware configuration
show/set EEPROM/NVRAM values	bootlist -o -m normal			setboot bootadmin (at boot PROM) stm	nvrnm	hwclock		openprom (on OpenFirmware architectures)	eeprom		consvar (DU 4.0D+)		show/set EEPROM/NVRAM values
administrative GUI	smitt smitty wsm	sysadm	/stand/sysinstall	sam	/usr/sysadm/bin/sysmgr (6.3+)	(rh) linuxconf			solstice admintool smc (8.01/01+)		checklist		administrative GUI
read a disk label	lspv -l	admpdisk -o list admindisk -o list	disklabel -r	diskinfo pvdisplay	prtvtoc	fdisk -l	disklabel -r	fdisk -r OR disklabel -rl	prtvtoc	dkinfo	disklabel -r	chpt -q	read a disk label
whole disk in partition	N/A		c		l0		d (on i386) c (everything else)	c	2	c	c	c	whole disk in partition
label a disk	mkvg	admpdisk	fdisk disklabel -wr sysinstall	pvcreate	dvhtool	fdisk fdisk e2label	disklabel -wr	disklabel -wr	format	format	disklabel -wr	chpt -a	label a disk
partition a disk	crfs	admpdisk	fdisk sysinstall	sam	fx -x	fdisk	disklabel	fdisk -e OR disklabel -E	format fmthard	format	disklabel -e	chpt -p	partition a disk
check swap space	lspas -a	admswap -o list -buw dg_sysreport -p freeswap	swapinfo	swapinfo	swap -s swap -l	cat /proc/meminfo free	swapctl	swapctl	swap -s swap -l	pstat -s	swapon -s		check swap space
kernel	unix	/dgux	/kernel	/hpux (9) /stand/vmunix (10+)	/unix	/boot/vmlinuz	/netbsd	/bsd	/kernel/genunix platform/`uname -m`/ kernel/unix platform/`uname -m`/ kernel/sparcv9/unix (7+)	/vmunix	/vmunix		kernel
show/set kernel parameters	/usr/samples/kernel/vmtune (installed with the bos.adt.samples.fileset) /usr/sbin/no (network-related)		/boot/kernel.conf	sam sysdef kmtune (11+)	sysstune	/proc/* /proc/sys/*		/etc/boot.conf	cat /etc/system /usr/sbin/ndd adb -k		sysconfig dxkerneluner		show/set kernel parameters
show runlevel	who -r			who -r		/sbin/runlevel			who -r		who -r		show runlevel
add device without reboot	cfgmgr -v			insf -H <i>hwpath</i> (where hwpath is given by <i>ioscan</i>)		insmod			(3.2.*) scu scan edt devfsadm, pre-Solaris 7, use: drvconfig; devlinks; [disks, tapes, ports]		(3.2.*) scu scan edt (4.0) sesimg -scan_bus bus=BUSNUM; disklabel -rw rZXX label (for disks)		add device without reboot
startup scripts	/etc/rc*	/etc/rc*	/etc/rc* /usr/local/etc/rc.d/	/etc/rc* (9) /sbin/rc* (10+)	/etc/rc*	/etc/rc* (but may vary)	/etc/rc*	/etc/rc*	/etc/rc*	/etc/rc*	/sbin/rc*	/etc/rc*	startup scripts
"normal" filesystem	jfs	dg/ux	ufs	hfs	efs, xfs	ext2	ffs (was ufs)	ffs (was ufs)	ufs	4.2	ufs	ufs	"normal" filesystem
volume based filesystem	jfs		ccd vinum	jfs (vxfs)	xlv, xvm, xfs		ccd, raidframe	ccd	Solstice DiskSuite Veritas Volume Manager		Advfs LSM		volume based filesystem
file system description	/etc/fileystems	/etc/fstab	/etc/fstab	/etc/checklist (9) /etc/fstab (10+)	/etc/fstab	/etc/fstab	/etc/fstab	/etc/fstab	/etc/fstab	/etc/fstab	/etc/fstab	/etc/fstab	file system description
volume manipulation	smitty vg smitty lvm smitty jfs		vinum	/usr/sbin/vg* lv* pv* extendfs fsadm	xlv_mgr xvm			/opt/VRTSvxxa/bin/vxxa (Veritas) /usr/opt/SUNWmd/ sbin/metatool (DiskSuite)	AdvFS: mkfdm, mkfset, addvol, showfdm LSM: volassist or volmake, volume, volplex and volsd, volprint			volume manipulation	
create non-0-length empty file			prealloc		mkfile			dd if=/dev/zero of= <i>filename</i> bs=1024k count= <i>desired</i>	mkfile		dd if=/dev/zero of= <i>filename</i> bs=1024k count= <i>desired</i>		create non-0-length empty file
NFS share definitions	/etc/exports		/etc/exports	/etc/exports	/etc/exports	/etc/exports	/etc/exports	/etc/exports	/etc/dfs/dfstab	/etc/exports	/etc/exports		NFS share definitions
NFS share command	/usr/sbin/exportfs -a		kill -s HUP `cat /var/run/mountd.pid`	exportfs -a	exportfs	exportfs -a	kill -s HUP `cat /var/run/mountd.pid`	share shareall	exportfs -a		/sbin/init.d/nfs start; /sbin/init.d/nfsmount start		NFS share command
mount CDROM	mount /cdrom smitty cdrom			ufs_mountd pfsd pfs_mount					/etc/init.d/vold start; volcheck or mount -F fsfs /dev/sr0 /cdrom				mount CDROM
encrypted passwords in	/etc/security/passwd	/etc/shadow	/etc/master.passwd	/etc/passwd (not Trusted) /secure/etc/passwd (Trusted 9) /tc/files/auth/ (10+)	/etc/shadow	/etc/shadow (may vary)	/etc/master.passwd (/etc/pwd.db)	/etc/master.passwd (/etc/pwd.db)	/etc/shadow		/tc/files/auth (only with Enhanced Security)	/etc/shadow	encrypted passwords in
allow/deny root logins	/etc/security/user	/etc/default/login	/etc/login.access; /etc/tty	/etc/securetty	/etc/default/login	/etc/securetty	/etc/tty	/etc/tty	/etc/default/login		/etc/securetty		allow/deny root logins
default syslog	/var/adm/syslog		/var/log/messages	/var/adm/syslog/syslog.log	/var/adm/SYSLOG	/var/log/syslog /var/log/messages	/var/log/messages	/var/log/messages	/var/log/syslog		/var/adm/syslog		default syslog
system error reporting tool	errpt	admsyslog -o report	dmesg	dmesg sysdiag (9 and early 10) stm/cstm/mstm/xstm (10.20+)	sysmon	dmesg	dmesg cat /kern/msgbuf	dmesg	prtdiag	dmesg	uerf	uerf	system error reporting tool
show installed software	lspp -L	pkginfo	pkg_info	mf/n, what (HP-UX 9) swlist (HP-UX 10+)	versions -lb	(rh) rpm -a -i (rh) rpm -qa (deb) dselect (deb) dpkg -l	pkginfo	pkginfo	pkginfo prodrgr admintool		setd -i		show installed software
add software	smitty install_all /usr/lib/instr/sm_inst installp_cmd -a -d 'device' -c 'N' -g '-X'		/stand/sysinstall /usr/ports make	swinstall	inst swmgr	(rh) rpm -hiv (deb) dselect (deb) apt-get install pkg (deb) dpkg -i	pkg_add /usr/pkgsrc && make	pkg_add /usr/ports && make	pkgadd		setd -l		add software
show patch level	instfix -ivq			swlist -l product grep someStringOfInterest	versions -b grep patch (6.4-) uname -R (6.5+)	(rh) rpm -q (deb) dpkg -s	cat /kern/version		showrev -p prodrgr (2.6+)		dupatch setd -l grep patchname		show patch level

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patch tool	installp smitty update_all	dg_sysreport -p patches	cvsup	update (9) swinstall (10+)	inst	(deb) apt-get update (deb) apt-get upgrade	cvs	cvs/CTM	installpatch (2.5.1-) patchadd (2.6+) pkgadd		setd -i dupatch		patch tool
tracing utility	trace syscalls		ktrace truss	trace (freeware) tusc (11+, freeware)	par	strace	ktrace	ktrace ptrace	truss sotruss	trace	trace		tracing utility
show network interface info	ifconfig -a no -a		ifconfig -A	lanadmin landiag lanscan netstat -in	ifconfig -a netstat -ia	/sbin/ifconfig	ifconfig -a	ifconfig -A	ndd ifconfig -a netstat -in		ifconfig -a netstat -in		show network interface info
change network address	smitty chinnet		<i>edit /etc/rc.conf (option ifconfig_interfaceName)</i>	/sbin/set_parms initial	<i>edit: /etc/{hosts,sysid, resolv.conf, TIMEZONE}, /etc/config/{static-route.options, ifconfig-L.options}; reboot</i>	<i>edit: /etc/hosts, /etc/sysconfig/network, /etc/sysconfig/network-scripts/ifcfg-eth0</i>	<i>edit /etc/ifconfig.interface dhclient</i>	<i>edit /etc/hostname.driver</i>	<i>edit /etc/resolv.conf; edit /etc/hostname.*; (possibly) /usr/sbin/sys-unconfig; reboot</i>		netsetup		change IP
ping one packet	ping -c 1 hostname	ping -s -c 1 hostname	ping -c 1 hostname	ping hostname 10 1 (9) ping hostname -n 1 (10+)	ping -c 1 hostname	ping -c 1 hostname	ping -c 1 hostname	ping -c 1 hostname	ping hostname packetsize 1	ping hostname packetsize 1	/usr/sbin/ping -c 1		ping one packet
route definitions	netstat -r smitty route		<i>edit /etc/rc.conf (option defaultrouter)</i>	/etc/rc.config.d/netconf	/etc/config/ static-route.options	(rh)/etc/sysconfig/network (rh)/etc/sysconfig/static-routes (deb)/etc/init.d/network (deb)/etc/network			/etc/defaultrouter /etc/notrouter		/etc/routes		route definitions
C compiler	/usr/ibmcc/bin/cc	/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/MIPSPpro/ bin/cc (S) /usr/bin/cc	gcc	/usr/bin/cc	/usr/bin/cc	/opt/SUNWsp/ bin/cc (S)	/usr/bin/cc	/usr/bin/cc		C compiler
precompiled binaries of GPLware and freeware	aixpdslib.seas.ucla.edu/aixpdslib.html www-free.bull.com/docs/download.htm		ftp://ftp.freebsd.org/0/FreeBSD/ports/3386/packages-4.0-release	hpux.cae.wisc.edu/	freeware.sgi.com/www.sgi.com/fun	www.linux.org/linux.tucows.com	ftp://ftp.netbsd.org/pub/NetBSD/packages/		www.sunfreeware.com/		www.tru64unix.compaq.com/demos		precompiled binaries of GPLware and freeware
mailing list	AIX-L@pucc.princeton.edu (LISTSERV)		www.freebsd.org/handbook/eresources.html#ERESOURCES-MAIL	hpux-admin@dutchworks.nl (majordomo)		www.linux.org/help/lists.html	www.netbsd.org/MailingLists	www.openbsd.org/mail.html	sun-managers@sunmanagers.ceecs.uc.edu (majordomo)	sun-managers@sunmanagers.ceecs.uc.edu (majordomo)	alpha-osf-managers@ornl.gov (majordomo)	decstation-managers@ornl.gov (majordomo)	mailing list
mailing list archives	www.marist.edu/htbin/wlindex?ADSM-L		www.freebsd.org/search.html#mailinglists	www.dutchworks.nl/htbin/hpsysadmin			www.netbsd.org/MailingLists	www.openbsd.org/mail.html	www.latech.edu/sunman.html	www.latech.edu/sunman.html	www.archive.ornl.gov:8000/	www.archive.ornl.gov:8000/	mailing list archives
newsgroup(s)	comp.unix.aix		comp.unix.bsd.freebsd.misc	comp.sys.hp.hpux	comp.sys.sgi.admin	comp.os.linux.* (esp .answers)	comp.unix.bsd.netbsd.misc	comp.unix.bsd.openbsd.misc	comp.sys.sun.admin.comp.unix.solaris	comp.sys.sun.admin	comp.unix.osf.osf1	comp.unix.ultrix	newsgroup(s)
user groups			www.daemonnews.com/	www.hpchronicle.com/		www.linuxjournal.com/	www.daemonnews.com/		www.sunworld.com/				user groups
magazines			www.freebsd.org/	www.unixsolutions.hp.com/products/hpux	www.sgi.com/software/software.html#IRIX	www.linux.org/www.redhat.com/	www.netbsd.org/	www.openbsd.org/	www.sun.com/solaris/		www.unix.digital.com/	www.supelec.fr/decus/faq/faq-ultrix.html	magazines
vendor home page	www.rs6000.ibm.com/	www.dg.com/products/html/dg_ux.html	www.freebsd.org/	www.unixsolutions.hp.com/products/hpux	www.sgi.com/software/software.html#IRIX	www.linux.org/www.redhat.com/	www.netbsd.org/	www.openbsd.org/	www.sun.com/solaris/		www.unix.digital.com/	www.supelec.fr/decus/faq/faq-ultrix.html	vendor home page
vendor docs and patches	techsupport.services.ibm.com/support/rs6000		www.freebsd.org/handbook www.freebsd.org/releases/4.0R/errata.html	docs.hp.com/itrc.hp.com	www.sgi.com/support/patch_intro.html support.sgi.com	www.linuxdoc.org/rpmlfind.net/linux/RPM	www.netbsd.org/Security	www.openbsd.org/errata.html	docs.sun.com/sunsolve.sun.com				vendor docs and patches
vendor phone (US)	AIX: 800-237-5511 IBM hardware: 800-426-7378			800-633-3600	800-800-4SGI				800-USA-4SUN				vendor phone
ACTIVITY / OS	AIX	DG-UX	FreeBSD	HP-UX	IRIX	Linux	NetBSD	OpenBSD	Solaris	SunOS	Tru64 (Digital Unix, OSF/1)	Ultrix	OS / ACTIVITY

See also Heiner Steven's AWK dialects page at <http://www.oase-shareware.org/shell/articles/awkcompat.html>

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