ASK
AUX
DG/UX
FreeBSD
HP-UX
IRIX
Linux

[set all OS] [clear all OS]
[Draw table]
[Draw table and remember]

This custom drawing feature now works in Mozilla/Firefox, in Opera 7.0 or better, and in IE 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) 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 plugin has trouble with the PDF, then download it and load it in stand-alone acrobat.
Printed version.
OS versions in parentheses: e.g. 10+ means version 10 and greater; 9+ means version 9 and previous. 5=extra cost. (obs) = 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 **main** 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 AT&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	*(at) = Red Hat, Mandrake, SUSE... (deb) = Debian, Ubuntu... (fbc) = Fedora (gen) = Gentoo (md) = Mandrake/Mandriva (SUSE) = SUSE*	*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/ports.*	Forked from NetBSD in 1995. Security emphasis.	Fujitsu Siemens. Originally called SINIX. Based on DC/OSX from Pyramid, SINIX from Siemens, and SVR4.	SCO UnixWare 7.0.1 & SCO UnixWare 7.1.1 became Caldera OpenLinux and later became SCO again. SVR4-based.	Solaris 2.0-2.6, 7, 8, 9, 10, 11 OpenSolaris (SunOS 5.*) SVR4-based. An open-source version can be found at illumos.org	Solaris 1.* BSD-based	(Digital Unix, OSF/1) (4)= 4.0F/G (5)= 5.0A	An early DEC Unix, superceded 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 smitty wsm		Finder	sysadm	sysinstall	sam smh (11.31+)	/usr/sysadm/bin/sysmgr (6.3+) toolchest /usr/Cadmin/bin*	NetInfo Manager	sysadm	sushi (obs)		sysadm WebSysAdmin	scoadmin	solstice admintool (5) sysmon (8.01/01+)		checklist /etc/install/install smenu	checklist /etc/install/install smenu		administrative GUI
managing users	useradd (5+) usermod (5+) usermod (5+) lsuser mkuser chuser rmuser usrck		Finder /etc/adduser edit /etc/passwd	adduser chpass rmuser edit /etc/passwd	adduser userdel usermod getprpw modprpw pwget	/usr/sysadmin/priv/ addUserAccount passwmgmt	useradd usermod userdel adduser chage /usr/Cadmin/bin/cpeople	Aqua: System Preferences / Accounts niutil (OS X Server) dscl	useradd usermod usermod sysadm	useradd usermod userdel user	useradd adduser (interactive) user	sysadm useradd userdel	scoadmin userdel	useradd usermod userdel pgelt login /usr/sadm/bin/smuser (5+) groupadd		useradd adduser usermod removeuser dsaccounts	adduser removeuser	sadmin udbgen udbdelrid 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 lspath		dg_sysreport -g hardware	uname sysctl -a dmesg cat /var/run/dmesg.boot pciconf -l usbconfig camcontrol devlist	ioscan model cat /etc/dmesg.boot	hinv sysinfo -vv	arch uname dmesg (if you're lucky) cat /var/log/dmesg /proc/* lshw dmidecode lspci lspnp lsusb lsmod (SUSE) hwinfo /sys/devices/*	system_profiler SPHardwareDataType	awk 'print $4/'	hostinfo ioreg -l/ls system_profiler	prtconf devlist devlist machinetype more /etc/.osm	dmesg more cat /var/run/dmesg.boot pcidump acpidump	sysctl hw cat /var/run/dmesg.boot cat /kern/msgbuf	hwconfig hw scoadmin/DCU /usr/lib/X11/testtools/ z555ysinfo	prtconf -v /usr/platform/`uname -i`/ sbin/prtdiag -v (sun4u and sun4d only) arch -k psrinfo -v isainfo -v dmesg iostat -En prtfru cfgadm -l /etc/path_to_inst smbios	dmesg (if you're lucky)	dia -R full vmstat -P hwmgr -get category (5) hwmgr -show psrinfo 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 sys0 -a systemid		cat /etc/nodeid sysctl kern.hostuuid				system_profiler SPHardwareDataType	awk 'print $4/'						hostid	hostid	consrar -g sys_serial_num			unique id useful for licensing
show/set EEPROM/NVRAM values	bootlist -m normal	nvs	dg_sysctl grep BOOTPATH	eeprom (SPARC only)	setboot stm	nvram printenv/setenv (at command monitor)	/dev/nvram (if you have it) hwclock nvsetenv	nvram		eeprom	in bdm (at boot stop or ctrl-a)	eeprom		eeprom			(4.0D+) consvar		show/set EEPROM/NVRAM values
add device without reboot	cfgmgr mkdev		N/A	camcontrol atacontrol kldload /etc/rc.d/devfs restart	inf -e ioscan -fnC dev/type; insf -C dev/type	udev (2.6+) udevtrigger modprobe kernel insmod hotplug carddl	(automatic — autodiskmounter)	devigmt mktable	scsictl atactl		(auto-detected)	reinitdev changedev	mkdev	(10+) add_drv devfsadm, pre-Solaris 7 HW 11/99: use: drvconfig; devlinks; (disks, tapes, ports) /usr/lib/sysinit/bin/hd_add (RDAC) /etc/sysmm/mrparams (RDAC)	devMAKEDEV	(3.2.*) scu scan edf (4.0) scu scan edf; diskabel - rw cdX/c label (for disks) (5.x) dsfmgr -k; disklabel -rw disks scan ascii hwmgr -scan scsi	devMAKEDEV	add device without reboot
remove device	rmdev			camcontrol stop camcontrol eject	rmsf								(10+) rem_drv devfsadm					remove device
tape device	/dev/rmt0	/dev/rdsk/c8d7s0	/dev/rmt0	/dev/nsa0 /dev/"sa" /dev/"sa[0-9]"	/dev/rmt/0m	/dev/tape /dev/nrtape	/dev/st0		/dev/rmt*	/dev/rmt*	/dev/[e|h|n|r][0-9]*	/dev/ios0/ntape001 autoconf -l	grep TAPE	/dev/rct0	/dev/rmt0	/dev/rmt0	(5.x) /dev/ntape /dev/tape	/dev/rmt0/h where r=non-rewinding, X a tpmnt number, l=density	tape device
stdin/ stdout/ stderr	?	?	?	/dev/fd[012]	?	/dev/fd[012]	/dev/fd[012]	?	/dev/fd[012]	/dev/fd[012]	/dev/stdin /dev/stdout /dev/stderr /dev/fd[012]			/dev/fd[012]					stdin/ stdout/ stderr
X kvm config	?	?	?	Xorg -configure xf86config	itemap	/usr/bin/X11/sxetmon /usr/gfx/setmon	xorg -configure xorgconfig Xorg -configure system-config-display (at) xf86config XFree86 -configure redhat-config-xfree86 /etc/X11/*bin	?	?	?	xf86config xf86cfg XFree86 -configure	X -configure	hwconfig	kdmconfig (x86) Xconfig; m64config; (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	?	admpdisk -o list admdisk -o list	disklabel -r gpart show (7.0+)	scsimgr (11.31+) diskinfo pvdisplay	prtvtoc	fdisk -l	pdisk, rawDev -dump Disk Utility	prtvtoc	disklabel diskName	dkpart -l	fsname	prtvtoc	dkinfo	disklabel -r	chpt -l		read a disk label
whole disk in partition	hdisk0,1,2,...	?	?	/dev/hda (e.g. if /dev/hda1 is a partition)	10	/dev/hda (e.g. if /dev/hda1 is a partition)	(non-root partitions are mounted under /Volumes)	s0	c or d sysctl kern.rawpartition	/dev/sd0/hdisk???a7 (???=000-999)	/dev/*s# (#=0,1,...)	2	c	c		s7		whole disk in partition
label a disk	mkvg	?	admpdisk	fdisk disklabel -rw sysinstall gpart add (7+) sade (6.3)	pvcreate	dvhtool fx -e	cfdisk fdisk sfdisk e2label	diskutil	sysadm fdisk edvtoc prtvtoc mkpart updateiecxi labelit	disklabel -rw mbrlabel		dksetup	divvy	format prtvtoc (x86) fdisk	format	disklabel -rw		labelit	label a disk
partition a disk	mklv	dp Finder: Apple HD SC Setup	admpdisk	fdisk disklabel sysinstall gpart add (7.0+) sade (6.3)	smh (11.31+) lvcreate sam	fx	parted (if you have it) cfdisk fdisk pdisk (on a MAC) (deb) mac-fdisk (on a MAC) (deb) diskdrake	pdisk	fdisk	disklabel -i	fdisk -e diskName	dkpart -i	divvy	format fmthard	format	disklabel -e	/etc/install/install	partition a disk
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kernel	/unix	/unix	/dgux	/boot/kernel/kernel	/hpux (9) /stand/vmunix (10+)	/unix	/boot/vmlinuz/ /boot/bootlb (see /etc/lilo.conf or /boot/grub/menu.lst)	/mach_kernel	/unix /stand/unix	/netbsd	/bsd	/unix /stand/unix	/unix	/kernel/genunix /platform/`uname -m`/ kernel/unix /platform/`uname -m`/ kernel/sparcv9/unix (7+)	/vmunix	/vmunix	/vmunix	/unicos	kernel
show/set kernel parameters	vmo ioo schedo	/etc/rc.config Finder	vi /var/Build/ system.hostname; reboot	/boot/loader.conf sysctl /etc/sysctl.conf	smh (11.31+) sam kmtune (11+) kctune (11.23+) getconf	/proc/* /proc/sys/* sysctl /etc/sysctl.conf	/usr/sbin/sysctl /etc/sysctl.conf /etc/launchd.conf	nvram	/proc/* getconf /etc/cfcf.d/ quicktune.cfg	sysctl /etc/sysctl.conf	sysctl /etc/sysctl.conf	idtune cat /etc/sysctl.d/tune cat /etc/opt/ct.distune	sysdef getconf cat /etc/system	adb kenv/sysp/ arch -k /conf	dxkernelturer sysconfig	adb kdb	adb kdb		show/set kernel parameters
limit physical memory	mss	?	?	?	?	?	mem= (in lilo.conf or /boot/grub/grub.conf)	nvram bootargs="maxmem=MB"	?	?	?	machine memory (at the "boot" prompt)	/etc/project zonecfg	?	?	?	?	limit physical memory
loaded kernel modules	genkex vdsetadm -a	?	?	kldstat	kmadmin -s kcmodule -a (11.23+)	lsmod	kextstat	modstat	modstat	modload	modadmin	modinfo	?	?	?	loaded kernel modules
load module	vdsetadm modname load cfgmgr mkdev -l devname	?	?	kldload	kmadmin -L kcmodule module+loaded (11.23+)	modprobe insmod	kextload	modload	modload	modadmin	modload	?	?	?	load module
unload module	vdsetadm -l devname	?	?	kldunload	kmadmin -U kcmodule module+unused (11.23+)	modprobe -r	kextunload	modunload	modunload	modadmin	modunload	?	?	?	unload module
make disk bootable	bosboot -a	?	dg_sysctl disklabel gpart bootcode (7+) sade (6.3)	mkboot	dvhtool	(lfi) mkbootdisk (deb) fdisk -A (and lilo to manipulate mbr)	bless	diskayout	fdisk -i installboot	/usr/mdec/installbootX /usr/mdec/bioscboot	dksetup	installboot /usr/platform/`uname -i`/lib/fs/ufs/bootblk raw_device_file	/usr/kvm/mdec installboot (+lfs) protobootblk bootldevice	(4.x+) disklabel -rw -t (ufs/advfs)		make disk bootable
startup scripts	/etc/rc* /etc/inittab	?	/etc/rc* /etc/rc.d/* (5+) /usr/localllib/rc.d*	/etc/rc* (9) /etc/rc.d/* (5+) /sbin/rc* /sbin/init.d	/etc/rc* /etc/init.d	/etc/rc* (but may vary) /etc/init.d/ chkconfig service	/System/Library/ Startupitems*, /Library/Startupitems*, /etc/rc*	/etc/rc* /etc/init.d	/etc/rc*, /etc/rc.d*	/etc/rc*	/etc/rc* /etc/restart	/etc/rc*	/sbin/init.d; links in /sbin/rc?.d	/etc/rc*	startup scripts
start/ stop/ config services	startsrc stopsrc lssrc refresh srcmstr	?	?	service (8.1+)	?	(lfi) service (lfb) chkconfig (deb) sysv-rc-conf	launchctl	?	?	?	svcs (10+) svcadm (10+)					start/ stop/ config services
shutdown (& power off if possible)	shutdown -Fh	/etc/shutdown -h Finder	?	shutdown -p now	shutdown -gh 0	shutdown -y -g0 -i0 halt poweroff	shutdown -P now shutdown -y -g0 -i0	halt	shutdown -p now	shutdown -hp now		shutdown -i0	shutdown -y -g0 -i5					shutdown (& power off if possible)
run levels [1] **normal states** *for more detail see www.childsa.net/runlevels.html*	2: multiuser 6: reboot	?	?	0: halt and power off 1: single-user mode 6: reboot c: block further logins q: rescan ttye(5) file	0: shut down s,S: single-user 1: sys-admin 2: multiuser 3: multiuser (no NFS) 4: start GUI 5: user-defined 6: user-defined	0: power-down s,S: single-user 1: sys admin 2: multiuser (no NFS) 3: share NFS 4: user-defined 5: firmware monitor	(sat in /etc/inittab) 0: shutdown s,S: single-user 1: sys admin 2: multi-user 5: GUI 6: reboot		s,S: 1: vendor-dependent 1: single-user 2-5*: multiuser 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*: user-defined 3+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.childsa.net/runlevels.html*
show runlevel [1]	who -r	/etc/environment (ST2)	who -r	?	who -r	who -r	/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 (ST2)	/etc/TIMEZONE	/etc/TIMEZONE	adrowasp -o list -bsv dg_xpmspool -g freeswap systat -swap	/usr/lib/tztab	/etc/TIMEZONE	/usr/share/zoneinfo/ /etc/localtime	/usr/lib/zoneinfo/ /etc/localtime	/usr/lib/locale/TZ	/etc/localtime /usr/share/zoneinfo/	/etc/localtime /usr/share/zoneinfo/	/etc/zoneinfo	/usr/share/lib/zoneinfo/	?	/etc/zoneinfo	?		time zone info
check swap space	lsps -a	?	swapinfo pstat -s	swapinfo pstat -s	swapinfo	swap -l	cat /proc/meminfo cat /proc/swaps	ls -l /var/vm vm_stat	swapinfo	swapctl	swap -l pstat -s	swap -l	swapon -s	/etc/swapper	check swap space
core dump management	chcore			coreadm			/proc/sys/kernel/core_pattern /proc/pid/coredump_filter					coreadm					core dump management
bind process to CPU	bindprocessor	?	?	cpuset		psrset -b mpsched -c intctl	runon	taskset (sched-utils)					ptool						bind process to CPU
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
"normal" filesystem	jfs	ufs	dg/ux	ufs/ufs2 (5+) ext2 zfs (7+)	hfs vxfs (11.0+)	efs, xfs	ext2 ext3 ReiserFS	ufs Hfs+	ufs	ffs (was ufs)	ffs (was ufs)	hfs (OpenServer 5) ufs (root)	ufs (OpenSolaris)	4.2	(4) ufs (5) AdvFS	ufs	NC1FS C2FS	"normal" filesystem
volume-based filesystem	jfs2	?	admpdisk	ccd vinum geom (5+) zfs (7+)	lvm (vxfs) LVM (vxvm) VxVM (5)	xlv, xvm, xfs	vdisk VxVM	Disk Utility	vxfs	ccd, raidframe	ccd raid sofraid	vdisk	zfs (10+) Solstice DiskSuite LSM	Advfs LSM	N/A		volume-based filesystem
file system description	/etc/filesystems mount lsfs	/etc/fstab	/etc/fstab	/etc/fstab zfs (7+)	/etc/checklist (9) /etc/fstab (10+)	/etc/fstab	NetInfo	/etc/vfstab	/etc/vfstab	/etc/fstab	/etc/vfstab /etc/dfs/dfstab/filesys /etc/vfstab (local) /etc/mnttab (remote)	/etc/fstab /etc/fdmns	/etc/fstab AdvFS: /etc/fdmns	/etc/fstab	/etc/fstab	file system description
volume manipulation	smitty vg smitty lvm smitty jfs smitty storage mkvg; chvg; reducevg; extendvg; exportvg; importvg mklv; chlv; rmlv mkfs; cfs; rmfs	?	sysadm	vinum ccdconfig geom (5.3+) geom (5.3+) gvinv (5.3+) graid3 (5.3+) zpool	sg*, lv*, pv* extendfs lvadm xom	e2fsadm lvcreate lvremove lvextend	Disk Utility pdisk diskutil	vxva vxdiskadm lvextend	ccdconfig raidctl bioctl	ccdconfig raidctl bioctl	dkconfig dkmirror dkmap	zpool (10+) meta* (Solstice DiskSuite, Solaris Volume Mgr (9+)) (7-, 8 and) /usr/opt/SUNWlvm/ sbin/ /opt/VRTS/bin/vxva/vxva (Veritas Volume Mgr) (5)	AdvFS: mkfdmn, rmfdmn LFS: rmvol or vdmake, volume, volpkr and voled, vdpmit	/etc/install/install		volume manipulation
create filesystem	crfs	/etc/newfs /etc/mkfs	admfilesystem	newfs zfs (7+)	mkfs newfs	mkfs	newfs_hfs mkdosfs mkdos.fs mkfs.*	newfs newfs_hfs newfs_mdos mkfs.*	mkfs	newfs makefs	newfs	mkfs makefs	divvy (OpenServer 5)	newfs mkfs zfs (10u2+)	newfs mkfs	AdvFS: mkfdmn UFS: newfs MFS: mfs	newfs mkfs	bb mkfs labelit	create filesystem
file system debugging and recovery	dfsck fsck fsdb	?	fsck	fsck fsdb	fsck fsdb	fsck xfs_repair	fsck fsdb debugfs e2undel	fsck ?	fsck fsdb	fsck fsdb	fsck fsdb	fsck scan_ffs	fsck fsdb ctrl	fsck fsdb ctrl				file system debugging and recovery
create non-0-length empty file	lmktemp	?	?	truncate -s size[KMG] filename dd if=/dev/zero bs=size[bkmg] \ count=desired	prealloc	mkfile	dd if=/dev/zero of=filename bs=1024 count=desired	dd if=/dev/zero of=filename bs=1024 count=desired	dd if=/dev/zero of=filename bs=1024 count=desired	dd if=/dev/zero of=filename bs=1 count=desired	dd if=/dev/zero of=filename bs=1 count=1 seek=desired-1	dd if=/dev/zero of=filename bs=1024 count=desired	mkfile	dd if=/dev/zero of=filename bs=1024k count=desired		create non-0-length empty file
convert DOS-format text to Unix format	strings dosfile.txt > unixfile.txt	?	?	dos2ux		dos2unix	dd if=/dev/zero of=filename bs=1k count=1 seek=desired-1 (sparse file)							dos2unix				convert DOS-format text to Unix format
mount CDROM	mount -v cdrfs -o ro /dev/cd0 /cdrom smitty cdrom	Finder	pib_mountd pdid pib_mount mount /dev/dsk/cdrom2 /SD_CDROM mount -dir /dev/cdrom /mnt/cdrom (requires "Rock Ridge extension" patches, 11)	mount -t cdrom mount /dev/dsk/catjdt2*	(see man media)	mount /mnt/cdrom	mount /mnt/cdrom (mounts automatically on CD inserted)	(automatic — automounter) diskutil mount /dev/disk1s0	mount -F cdfs -o ro /dev/cdrom/cdromX /cdrom	mount /dev/cd0a /cdrom	mount -F he ... sysadm	mount /dev/cdX /path	/etc/init.d/volmgt start; volcheck or mount -F hsfs -o ro /dev/dsk/c0t6d0s2 /cdrom	mount -t hsfs -r /dev/sr0 /cdrom	mount /dev/disk/cdrom0a /mnt mount -t cdfs -o noversion /dev/disk/cdrom0c /cdrom			mount CDROM
eject CDROM	?	(manually)	?	camcontrol eject /dev/cd0 cdcontrol eject [-f device]	?	eject	eject (deb) eject	diskutil eject /dev/disk1s0 /Volumes/theCDmountpoint	eject	cdio eject eject -t eject -n		eject	eject cdrom	eject cdrom				eject CDROM
create/mount ISO image	mkcd	?	?	mkisofs mtconfig; mount	mkisofs	mkisofs (freeware)	hdiutil	mount -o loop path/to/o mountPoint	mkisofs mount -t iso9660 -o [loop path/to/o]	mkhybrid -o image.iso dir vnconfig vnd0 image.iso && mount -t iso9660 /dev/vnd0a mountPoint	mkisofs/ADEVICE='o/adm -oo /absolute_pathname/image.iso' ; mount -F hsfs -o ro $DEVICE						create/mount ISO image
ACL management	aclget aclput acledit	?	getfacl setfacl (get,set)f,plmac	lsacl chacl setacl	chacl setfacl	getfacl setfacl (see man acl)	chmod fsaclctl (-10.6)		n/a				getfacl setfacl					ACL management
Fibre Channel / SAN	fcstat lscfg -vl fcsX lsattr -El fcsX	?	?	mptutil (8.0+) isp_mctl xpt showmount	scsimgr (11.31+) fcmsutil fcdlist fdutil tdutil fdisk tdlog	cmgr fcinfo cdfmgr ccfs_info	(treat as SCSI device)	syatool multipath						cfgadm luxadm lsfscsi mpathadm lfcinfo					Fibre Channel / SAN
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NFS share definitions	/etc/exports /etc/xtab	/etc/exports	/etc/exports	/etc/exports	/etc/dfs/dfstab (11.31+)	/etc/exports	NetInfo /config/SharePoints	dfshares	/etc/exports	/etc/exports	/etc/dfs/dfstab /etc/dfs/sharetab	/etc/dfs/dfstab	dfshares	/etc/exports	NFS share definitions
NFS share command	exportfs -a mknfsexp	/usr/etc/exportfs -a	exportfs -a	kill -s HUP `cat /var/run/mountd.pid`	exportfs share (11.31+) share_nfs (11.31+)	(lfb) exportfs -a (md) exportfs -a	nfsd	/etc/init.d/nfs-server reload	share shareall	kill -s HUP `cat /var/run/mountd.pid`	/etc/rc.d/nfsd restart	share shareall	/etc/init.d/nfs start	share shareall	exportfs -a	/sbin/init.d/nfs start	exportfs -a	NFS share command
NFS information	showmount nfsstat nfso -a	/usr/etc/nfsstat	nfsstat	nfsstat	mount	grep nfs	cat /proc/mounts	nfsstat	NetInfo	nfsstat	nfsstat	showmount nfsstat	showmount	NFS information
name resolution order	/etc/netsvc.conf	/etc/resolv.conf	/etc/netsvc.conf	/etc/host.conf (4) /etc/nsswitch.conf (5+)	/etc/nsswitch.conf	/etc/resolv.conf (4) 5.3: /etc/irs.conf	/etc/nsswitch.conf /etc/resolv.conf	NetInfo	/etc/netconfig	/etc/nsswitch.conf	/etc/resolv.conf	tcpconf/config	/etc/nsswitch.conf	getent	(hardcoded) /etc/libc	/etc/nsswitch.conf	/etc/svc.conf	/etc/svc.conf	name resolution order
show network interface info	ifconfig -a lsattr netstat -i lsattr -El entX	ifconfig -a /etc/ifconfig -a	netstat -i ifconfig	ifconfig	nwmgr (11.31+) lanscan lanscan ifconfig netstat -in	/usr/etc/ifconfig -a netstat -ia ifconfig	ifconfig ethtool	/usr/sbin/ifconfig -a /etc/ifconfig -a netstat -in	ifconfig -a netstat -in	ifconfig -a /etc/ifconfig -a netstat -in	ifconfig -a /etc/ifconfig -a netstat -in	ifconfig -a intstat cmsinfo	ifconfig -a in Network Config. Mgr. (GUI)	ifconfig -a	ndd netstat -in ifconfig -a	ifconfig -a ifconfig -A	ifconfig -a hwmgr get attribute -category network	ifconfig	ifconfig	show network interface info
change IP	smitty chinet chdev -a netaddr= newIP-inet0= newIP mktcpip	ifconfig edit /etc/NETADDRS	sysadm	edit /etc/rc.conf (old/pre ifconfig_interfacename=) ifconfig	/sbin/set_parms initial	edit /etc/hosts, sys_id, /etc/config/ ifconfig, interface, TIMEZONE(), /etc/config/ (static-route options, config-1-options), reboot	ifconfig (lfi) redhat-config-network (fed/rhl) system-config-network (fed) edit /etc/hosts, /etc/sysconfig/network-scripts/ /etc/sysconfig/ /etc/networking/ network-scripts (m/d) yast2 (deb) edit /etc/network/interfaces; /etc/init.d/networking restart	System Preferences Network NetInfo	ifconfig	ifconfig /etc/myname /etc/hosts	ifconfig (temp.) /etc/hostname.if (perm.) edit /etc/resolv.conf /etc/resolv.conf interface	ifconfig netconfig	edit /etc/hosts, /etc/netconfig, /etc/tcp	edit /etc/resolv.conf, hosts, hostname.*, netmasks, nodename, dumpadm.conf, inetd/poxfiles, netP ('hosts') sys-unconfig; reboot (this to overkill) for a simple IP or hostname change)	edit /etc/hosts /etc/hostname.* (5.x) sysman net_wizard or rcinconfig	/etc/routing [reboot]	change IP

Tasks

TASK \ OS	AIX	A/UX	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
start DHCP client	dhcpcd	nis	dhcpd	dhclient	?	proclaim	dhcpd dhclient	?	?	dhclient	dhclient (*dhclient interface* (runtime); add dhcp to /etc/hostname.driver (boot time))	?	?	ifconfig *interface* dhcp	?	dhcpconf *interface* start	?	?	start DHCP client
ping one packet	ping -c 1 hostname	/usr/etc/ping hostname packetsize	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 -c 1 hostname	ping -c 1 hostname	ping -c 1 hostname	ping -c 1 hostname	ping hostname packetsize 1	ping hostname packetsize 1	ping -c 1	?	ping hostname	ping one packet
sniff network	iptrace ipreport	?	tcpdump	tcpdump	nettl netfmt	snoop tcpdump	etherfind tcpdump wireshark (formerly ethereal) etherape	tcpdump	tcpdump	tcpdump	tcpdump	tcpdump	?	snoop	etherfind	tcpdump	?	?	sniff network
route definitions	netstat -r route	netstat -r	sysadm	add l /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-routes (deb) /etc/init.d/network (deb) /etc/network	netstat -r	tcpconfig /etc/inet/defaultrouter /etc/inetgate* netstat -r	route show /etc/rc.conf /etc/mygate	netstat -r route add	netstat -r	/etc/defaultrouter /etc/mcdrouter /etc/gateways in.routed netstat -r route add	/etc/defaultrouter (kernel break or add to disable forwarding)	/etc/routes	?	netstat -r	route definitions
telnetd, ftpd banner	/etc/security/login.cfg	/etc/issue	/etc/ftpwelcome	/etc/reld.conf (telnet)	/etc/issue	/etc/issue	/etc/issue.net (telnet) (ftp varies; can use tcp wrappers)	/etc/ftpwelcome	/etc/issue ~ftp/etc/issue ~ftp/etc/msgs/welcome	/etc/mcdd /etc/ftpwelcome ~ftp/etc/msgs/welcome via if=in /etc/gettytab	/etc/issue.net /etc/ftpwelcome	/etc/issue	/etc/issue.net /etc/default/telnet /etc/default/ftpd	n/a	/etc/issue	?	/etc/issue /etc/mcdd	telnetd, ftpd banner
set date/time (from net: ntp or other)	ntpdate	date	?	date adjkerntz ntp tzsetup (obs) timed	ntpdate	timeslave	date ntpdate rdate netdate	System Preferences/ Date & Time	date ntpdate rdate netdate	date ntpdate rdate timed (obs)	date ntpdate rdate timed	?	?	ntpdate rdate	?	ntpdate	rdate	?	set date/time (from net: ntp or other)

TASK \ OS	AIX	A/UX	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 auditpr auditselect lsauditrec	?	auditd	audisp audevent audomon audsys	audit setconfig set_reduce sat_interpret	(2.6+) auditd /var/log/faillog	?	?	?	mtree /etc/security (run 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) /tcb/files/auth/ (10+) /etc/shadow (11.22+)	/etc/shadow (may vary)	Netinfo	/etc/shadow	/etc/master.passwd (/etc/pwd.db)	/etc/shadow	/etc/shadow	/etc/shadow	/etc/passwd	/tcb/files/auth (only with Enhanced Security)	/etc/shadow	/etc/udb	encrypted passwords in
min password length	/etc/security/user	?	/etc/login.conf	/etc/default/security	?	/etc/pam.d/system-auth	?	?	?	/etc/login.conf	?	?	/etc/default/passwd	?	?	?	min password length
allow/deny root logins	/etc/security/user	?	/etc/default/login /etc/ttys	/etc/login.access	/etc/securetty	/etc/default/login	/etc/securetty	/etc/ttys (doesn't affect ssh)	/etc/default/login	/etc/ttys	/etc/ttys	/etc/default/login	/dev/default/login	/etc/default/passwd	/etc/ttytab	/etc/securetys	/etc/securetys	udbrestrict -R	allow/deny root logins
firewall config	genfilt smitty ipsec4 xwm network	?	ipfw ipf pfctl	/etc/opt/ipf/ipf.conf	/etc/ipf.conf	Aqua / System Prefs / Sharing / Firewall ipfw	ipf /etc/ipf.conf /etc/ipf6.conf (9+) /usr/sbin/ (hardening tool) (9) SunScreen 3.2	pfctl /etc/pf.conf	ipf /etc/pf.conf	iptables ipchains ipfwadm (rh) /etc/sysconfig/ (rh) redhat-config- ipfw	pf /etc/pf.conf /etc/ipf.conf pfctl	firewall config

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TASK \ OS	AIX	A/UX	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	lslpp -L lsrc	?	pkginfo	pkg_info ls /var/db/pkg	rmfn, what (HP-UX 9) swlist (HP-UX 10+) swm.list (11.31+)	versions showfiles showprods	ls /Applications Apple System Profiler system_profiler ls /Network/Applications /Network/Users/*/ Applications /Users/*/Applications	displaypkg pkginfo	pkg_info	pkg_info	pkginfo -l sysadm	swconfig (OpenServer 5) displaypkg pkginfo	pkginfo prodreg admintool /var/sadm/install/contents	?	setld -i	?	show installed software
file is in which package	lslpp -w file rpm -qf file	?	?	pkg_info -W file	swlist -l file | grep file	versions long | grep file	(deb) dpkg --search file (deb) apt-file update && apt-file search file (rh) rpm -qf file (gen) equery b file (gen) qfile file	pkg_chk pkg_info -Fw file	pkg_info -E file	?	pkgchk -l -p binaryToCheck	?	setld -i	?	file is in which package
add software	smitty install rpm -ihv installp -acpqYd /sourcedir [fileset	ALL]	n/a (no package system)	sysadm	sysinstall /usr/ports make pkg_add	swm install (11.31+) swinstall	inst swmgr	(rh) rpm -ihv (rh) yum install pkg (deb) dselect (deb) apt-get install pkg (deb) dpkg -i (ms) urpmi	installpkg drag-and-drop (Applications/ Utilities/ Installer)	pkgadd pkgplus	pkg_add /usr/pkgsrc && make	pkg_add /usr/ports && make	pkgadd sysadm	custom installpkg SCOadmin (GUI)	pkgadd	?	setld -i	?	add software
precompiled binaries of GPLware and freeware	perzl.org/aix/ www3.ibm.com/servers/ aix/products/aixos/linux/ download.html sipsfc06.sipsf.urda.edu/ aixpsdb.html bullfreeware.com	see FAQ	http://www.signal42.com/ dfree/AIX-4.2.0/binaries/ DGUX-cat80/	lfs.freebsd.org/ pub/FreeBSD/ freebsd.org	hpux.cs.utah.edu hpux.connect.org.uk	freeware.sgi.com www.sgi.com/fun pekochan.net	www.linuxpackages.net sourceforge.net freshmeat.net (deb) ftp.debian.org (deb) packages.debian.org (gen) packages.gentoo.org (gen)gentoo-portage.com* (ms)easyurpmi.zarb.org	link.sourceforge.net darwinports.opendarwin.org darwinsource.com	ftp://ftp.netbsd.org/pub/NetBSD/packages ftp://ftp.NetBSD.org/pub/pkgsrc	ftp://ftp.openbsd.org/pub/OpenBSD/snapshots/ packages	data.mobach.nl/aix	www.caldera.com/ skunkware	www.caldera.com/ www.sunfreeware.com www.blastwave.org	www.tru64unix.compaq.com/ demos freeware/63_dev.html freeware/61_packages.html	precompiled binaries of GPLware and freeware
C compiler	/usr/lorenx/bin/cc /usr/vac/bin/cc (5)	cc /usr/local/gnu/gcc	/usr/ide/default/var/bin/cc /usr/bin/cc (gcc) /usr/bin/clang (5.0+)	/opt/softbench/bin/cc ($) /bin/cc (9) /usr/bin/cc (10+; not necessarily ANSI; kernel builder only)	/opt/MIPSpro/ bin/cc ($) /usr/bin/cc	cc gcc	aw_vers Apple/About This Mac ls /Library/Receipts system_profiler (Metaware)	/usr/bin/cc	/usr/bin/cc	/usr/bin/cc	/usr/bin/cc	/opt/SUNWspro/ bin/cc*	/usr/bin/cc	/usr/bin/cc	/usr/bin/cc	/opt/ctl/bin/cc	C compiler
show patch level and/or patches	instfix -ivq oslevel -s	what l/dgux	uname -a	swm.list (11.31+) swlist -l product | grep PHssmeString	versions -b | grep patch uname -R (6.5+)	(rh) rpm -q (rh) cat /proc/version uname -a (deb) cat /etc/redhat-release (deb) dpkg -a	system_profiler uname -a sw_vers cat /System/Library/ CoreServices/ SystemVersion.plist	pkginfo -l	cat /kern/version uname -a /etc/release	sysctl -n kern.version	swconfig -P	showrev -p prodreg (2.6+) patchadd -p cat /etc/release	showrev -p (if you're lucky)	dupatch -track -type kit dupatch -track -type patch setld -i | grep patchname sizer -vB	show patch level and/or patches
patch tool	installp smitty update_all	?	dg_sysreport -p patches	swup (6.2+) freebsd-update (7+) cvsup or cvs to update, then rebuild	update (9) swinstall (10+)	inst swmgr	apt-get update apt-get upgrade (rh) up2date (rh) yum update (rh) yum update (ms) urpmi	System Preferences / Software Update softwareupdate	pkgadd pkgplus	cvs sup supcvs cvsync	patch	pkgadd sysadm	pkgadd; pkgrm	cve cte install/patch patchadd (2.6+) pkgadd; pkgrm /usr/sadm/bin/smpatch (9+)	n/a	setld -i dupatch	?	patch tool
configure/show runtime linking fortran-2000.com/ ArnaudRecipes/ sharedlib.html	dump -H ldd	?	ldd ldconfig kldstat	chatr ldd (11+) loadmon	ldd rld _RLD_LIST	ldconfig ldd tsmod	ldd ldconfig	ldd nm ldconfig	ldd ldconfig	ctte ldd pldd modinfo LD_PRELOAD	ldd	odump -Dl ldd	configure/show runtime linking fortran-2000.com/ ArnaudRecipes/ sharedlib.html
link library path	SLIBPATH	?	SLIBPATH	SLD_LIBRARY_PATH (64-bit) SSHLIB_PATH (32- or 64-bit)	SLD_LIBRARY_PATH SRLD_PATH	SLD_LIBRARY_PATH /etc/ld.so.conf	SDYLD_LIBRARY_PATH man dyld	SLD_LIBRARY_PATH	SLD_LIBRARY_PATH	SLD_LIBRARY_PATH /etc/ld.so.conf	SLD_LIBRARY_PATH	SLD_LIBRARY_PATH (7+ deprecated in favor of ofe)	SLD_LIBRARY_PATH SLD_LIBRARY_PATH	?	SLDPATH	link library path
tracing utility	probevue (6+) trace syscalls truss watch	?	7+dg_strace (>=4.20MU06)	ktrace truss dtrace (8+)	tusc par prfstat SystemTap (freeware)	ktrace; kdump truss ldump systrace	ktrace; kdump (7+) dtrace; dtrace (>=10.5) fs_usage	truss	ktrace ktruss kdump	truss sctrace	truss	truss sctruss dtrace (10+)	trace	trace truss	?	cdbx jumptrace	tracing utility
define user defaults	/etc/security/ mkuser.default /usr/lib/skel	/etc/profile /usr/lib/skel	admuser -o set	/etc/default /etc/PATH /etc/MANPATH /etc/skel/*	/etc/login.conf	/etc/default/login /etc/profile	/etc/security/ /etc/profile /etc/profile.d/*	/usr/sbin/defaults	/etc/profile /etc/skel/ /etc/security/	/etc/profile /etc/skel/* /SHOME/.profile	/etc/default/login /etc/profile	/etc/login /etc/profile	/etc/skel/ /etc/profile /etc/security/	/etc/profile	/etc/skel /etc/profile	/etc/skel /etc/profile	udbgen nu.scripts	define user defaults
csh global .login	/etc/csh.login	?	/etc/csh.login	/etc/csh.login	/etc/csh.login	/etc/cshrc	/etc/csh.login	/etc/csh.login	/etc/ csh.login	/etc/csh.login	/etc/csh.login	?	/etc/ login	/etc/login	?	csh global .login
default syslog and messages	/var/adm/syslog /var/adm/messages	?	/var/adm/messages	/var/log/messages	/var/log/syslog /var/adm/syslog /var/spool/mqueue/syslog	/var/adm/SYSLOG /var/adm/sulog	/var/log/syslog /var/log/messages /var/adm/messages /var/log/maillog	/var/log/system.log	/var/log/messages	/var/log/messages	/var/adm/messages	/var/adm/syslog /var/log/oslmlog	/var/log/messages /var/log/syslog /etc/syslog.conf /etc/syslog.conf	/var/adm/messages /var/adm/syslog.dated (kern, auth, daemon, lpr, syslog, user) /var/adm/binary.errlog	/var/log/messages /var/adm/syslog.dated (kern, auth, daemon, lpr, syslog, user) /var/adm/binary.errlog	/var/adm/messages	default syslog and messages
system error reporting tool	errpt	errpt	admsyslog -o report	dmesg send-pr	sysmon armsyslog avadmon everrtmond lmdmonitor xyserrpanel	syserr arrsyslog avadmon eventmond lmdmonitor xyserrpanel	Console (deb) reportbug	odm cat /kern/msgbuf send-pr	dmesg	dmesg cat /kern/msgbuf send-pr	sysadm log3 WebSysAdmin	sysadmsh	dmesg	dmesg	uerf	errpt	system error reporting tool
performance monitoring	ftp://ftp.software.ibm.com/ aix/tools/perftools/perfpmr vmstat; iostat; sar; filemon; topas; trace; svmon; netpmon; prcctree	?	fstat; nfsstat; systat; vmstat; netstat; uustat; top; iostat; gstat	glance gpm gprof vmstat; iostat; sar; vmstat; perfmeter (11.31+)	vmstat; osview; gr_osview; sar; gr_top; iostat; nfsstat; netstat; mfsvc; routervis; rstatd; top	vm_stat; nfsstat; fs_usage; sc_usage; iostat; Activity Monitor (10.3+) Process Viewer (10.2-)	sar; pinfo -v; modstat; netstat; nfsstat; pppstat; smtpstat; vmstat; top	iostat; netstat; pstat; sysbat; top; vmstat	fstat; iostat; mpstat; netstat; sysstat; vmstat	vmstat; mpstat; dkstat; sar; vmstat	sar	sar; iostat; fstat; mpstat; netstat; nfsstat; ps; prstat; trapstat; vmstat; ptree	iostat; netstat; vmstat	iostat; nfsstat; vmstat /usr/opt/nv4b/bin/sar monitor	iostat; nfsstat; vmstat	sar; osview; uptime; xvmcc; trace	performance monitoring
match process to file or port	procfiles (5.2+, files only)	?	fuser	sockstat	lsof fuser	lsof	lsof	lsof netstat -atup	lsof	lsof	fstat	fuser	fstat sockstat	fuser	fuser /ctte ptw	?	match process to file or port
collect various logs	?	?	?	?	?	?	(irh)sysreport; scareport	osascript -e 'tell application "Finder" to display dialog "msg"'	?	?	?	?	?	/opt/SUNWexplo/bin/explorer	?	?	collect various logs
X pop-up	/usr/bin/bin/dterror.ds	?	/usr/local/bin/xmessage	/usr/bin/bin/xmessage	/usr/X11R6/bin/xmessage	/usr/X11R6/bin/xmessage	xmessage	xmessage	/usr/X11R6/bin/xmessage	?	X pop-up

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Wikipedia	AIX	A/UX	DG/UX	FreeBSD	HP-UX	IRIX	Linux	Mac OS X	NCR Unix	NetBSD	OpenBSD	Reliant	SCO UnixWare	Solaris	SunOS 4	Tru64	Ultrix	UNICOS	Wikipedia
FAQs (see also faqs.org)	www.faqs.org/faqs/ aix-faq/part1/ preamble.html	christbladder.users.sourceforge.net/ docs/aixfaq.html	www.csc.dg.com/osc/dgux/docs/dgaixfaq1.aspx	www.freebsd.org/doc/en_US.ISO8859-1/books/faq	techpubs.sgi.com/library/tpl/cgi-bin/browse.cgi?coll=0650&db=FAQ	www.linuxdoc.org/ FAQ/Linux-FAQ	www.darwinfo.org/ faq.shtml	www.netbsd.org/ docs	www.openbsd.org/faq	?	zxusis.com/SCOFAQ	http://opensolaris.org/os/about/faq/ FAQ www.faqs.org/faqs/Solaris2/ x86FAQ/ www.sunhelp.org/faq/ www.globalsunirc.com/ www.science.uva.nl/pub/solaris/solaris2/ faqs.sun.html sunhelp.org	www.faqs.org/faqs/ comp-sys-sun-faq/	www2.tru64.org/faq/ tru64_faq.php	www.superior.fr/tecnos/ faq/faq-ultrix.html	www.spikynorman.net	FAQs (see also faqs.org)
blogs	?	?	?	?	?	?	bluenow.com	?	?	?	?	?	?	?	?	blogs
mailing list	AIX-L@listserv.princeton.edu (LISTSERV)	n/a	lists.freebsd.org/mailman/listinfo	hpux.admin/@dutchworks.nl (majordomo) hpux-l	www.linuxmanagers.org ?	lists.apple.com	www.netbsd.org/ MailingLists	lists.apple.com	www.opensolaris.org/jive/kbcategory.jspa	sun-managers@sunmanagers.org (majordomo)	tru64-unix-managers@ora.cornell.edu (majordomo) http://www.ornl.gov/its/archives/mailing-lists/tru64-unix-managers/ (majordomo)	mailing list
mailing list archives	www.marist.edu/htbin/wlvindex?ADSM-L	n/a	lists.freebsd.org/mailman/listinfo	www.dutchworks.nl/htbin/hpsysadmin	www.linuxmanagers.org scipio.smartlist.debian.org	lists.apple.com	www.netbsd.org/MailingLists	www.math.edu/usenet/ord-any-9000	www.tech.edu/tsun/tru64	www.archives.ornl.gov/tru64	mailing list archives
man pages www.freebsd.org/ cgi/man.cgi	publib16.boulder.ibm.com/ infocenter/aix/v6r1/index.jsp? bigdoc.net/pdf/ibm-aix/	?	man.freebsd.org	docs.hp.com/en/hpux_man_pages.html	techpubs.sgi.com/ library/tpl/cgi-bin/init.cgi?coll=&db=man	www.linuxmanpages.com Fedora Core 4: linuxcommand.org/ superman_pages.php www.tldp.org/docs/man-pages	developer.apple.com/ documentation/Darwin/Reference/ManPages	man.netbsd.org	www.openbsd.org/cgi-bin/man.cgi	usr71.doc.acm.com/en/language/ aixpubs/m-col/m.40.10.0	docs.sun.com/app/docs coll.40.10	?	www.hp.co.jp/manual/man/doku.cgi	man pages www.freebsd.org/ cgi/man.cgi
newsgroup(s) and forums groups.google	comp.unix.aix www.ibm.com/developerworks/forums/forum.jspa?forumID=1357	?	comp.os.aux	comp.unix.bsd.freebsd.misc forums.freebsd.org	comp.sys.hp.hpux	comp.sys.sgi.admin	comp.os.linux.* (lisp answers)	comp.sys.mac.*	comp.sys.ncr	comp.unix.bsd.netbsd.misc	de.comp.os.unix.bsds	comp.unix.sco.misc	comp.unix.solaris admin: comp.unix.solaris	comp.sys.sun.admin	comp.sys.dec; comp.unix.tru64	comp.unix.ultrix	newsgroup(s) and forums groups.google
user groups	www.usebluesoft.org	n/a	?	www.freebsd.org/support/webresources.html	connect-community.com hp-interex.com encompassus.org [dig]hpderatsk.com forums.itrc.hp.com HP OSPP	www.apple.com/usergroups www.osmicrosoft.com/ developers/mac/tips/ userg.htm themacintoshguys.com/index.htm	?	opensolaris.org/community/ advocacy/usergroups/ua-leaders/	EncompassDECUS	www.cus.org www.xocecus.com	user groups
magazines	www.developer.ibm.com/tech/mag/ezum.html www.ox61.ibm.com/ collaboration/ wiki/display/WikiPtype/Home	n/a	?	daemonnews.org freshmag.net freebsd-advisor.pdf	?	www.sgi.com/support pipeline.html	www.linuxjournal.com/ linux-mag.com sysadminmag.com	www.macworld.com www.atpm.com	?	www.sun.com/sunworld/	www.compaq.com/linux/tru64	magazines
vendor home page	www.developer.ibm.com/tech/aix/ www.941.ibm.com/ collaboration/ wiki/display/WikiPtype/Home	n/a	www.cxr.dg.com/ csr/default.asp	www.freebsd.org	hp.com/go/hpux	www.sgi.com	www.apple.com	www.ncr.com	www.netbsd.org	www.openbsd.org	www.fujitsu-siemens.com	www.sco.com/products/openunix	www.oracle.com/technetwork/server-storage/solaris/overview/index.html	www.oracle.com	www.hp.com/go/tru64	?	www.cray.com	vendor home page
vendor docs and patches (see also man pages)	www14.software.ibm.com/ webapp/set2/sas/f/ techsupport/services/ ibm.com/support/AIX publib.boulder.ibm.com/	?	www.cxr.dg.com/osc/ publib/cpso/	www.freebsd.org/handbook www.freebsd.org/releases/	software.hp.com docs.hp.com hp.com/support	techpubs.sgi.com docs.sgi.com support/patch_intro.html support.sgi.com reindex	developer.apple.com/ documentation/ www.info.apple.com www.apple.com/support/ downloads/security.html securityfocus.com	www.info.ncr.com/ eCRM-Online-Browse-By-Results.cfm?h3=6&fr=8&h2=78&h1=61&fr=8&chl0=8&release=&subsys=8	www.netbsd.org/Security	www.openbsd.org/Security	service.fujitsu-siemens.com/ws.service.com/index/fts_ek_sckbo_en.htm	www.caldera.com/support	docs.sun.com sunsolve.sun.com	?	www.compaq.com/tru64	N/A (EOL)	crayport.cray.com/	vendor docs and patches (see also man pages)
vendor phone (US)	800-426-7378 (800-IBM-SERV)	(EOL; unsupported)	925-674-0783 (FreeBSD Mall)	800-633-3600	800-800-4SGI	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/ wikis/display/WikiPtype/Home	?	wiki.freebsd.org	?	?	fedoraproject.org/ wiki/Main_Page (fed) susewiki.org (SUSE)	?	?	?	www.openbsd.org/wiki	?	?	wikis.sun.com www.hp.com/go/tru64/wiki/doku.php	?	wikis

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