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Directory Mappings	AIX	HP-UX	LINUX	SOLARIS
Root filesystem	/ {/dev/hd4}	/ {/dev/vg00/lvol1}	/ {/dev/sda1}	/ {/dev/vx/dsk/rootvol}
Home Directory	/home {/dev/hd1}	/home {/dev/vg00/lvol4}		/export/home /dev/vx/dsk/home}
	/tmp {/dev/hd3}	/tmp {/dev/vg00/lvol6}		/tmp /dev/vx/dsk/swapvol}
	/usr {/dev/hd2}	/usr {/dev/vg00/lvol7}		/usr
	/var {/dev/hd9var}	/var {/dev/vg00/lvol8}		/var
Sample configuration files	-	/usr/newconfig		
User Accounts	AIX	HP-UX	LINUX	Solaris
Password files	/etc/passwd /etc/security/passwd	/etc/passwd /tcb/files/auth/r/root	/etc/passwd /etc/shadow	/etc/passwd /etc/shadow
Groups file	/etc/group /etc/security/group	/etc/group /etc/loggingroup	/etc/group	/etc/group
Maximum # of user ID	4294967295	2147483647	65535	2147483647
Allow/Deny remote login	/etc/security/user {rlogin=true}	/etc/securetty {console}	/etc/securetty {/dev/console}	/etc/default/login {CONSOLE=/dev/console}
User nobody's id #	4294967294	-2	99	60001 & 65534(nobody4)
Group nobody's id #	4294967294	-2(nogroup)	99	60002 & 65534(nogroup)
Recover root password	boot from CD/Tape Installation/Maintenance Start Limited Shell getrootfs hdisk0 vi /etc/security/passwd	ISL>hpux -is vi /tcb/files/auth/r/root vi /etc/shadow	linux S vi /etc/shadow	boot cdrom -s mount /dev/c0t0d0s0 /mnt vi /mnt/etc/shadow
Create new user	mkuser	useradd	useradd	useradd
Delete user	rmuser	userdel	userdel	userdel
List users	lsuser -f ALL	logins	logins	logins
Modify user account	chuser -a	usermod	usermod	usermod
General Commands	AIX	HP-UX	LINUX	Solaris
Unique host ID	hostid	uname -i		hostid
Administrator	smit	sam	linuxconf	admintool
Performance monitor	top monitor	top glance	top	top
System activity reporter	sar	sar		sar
Virtual Memory statistics	vmstat	vmstat	vmstat	vmstat
I/O statistics	iostat	iostat		iostat

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Error logs	alog -o -t boot errpt	dmesg	dmesg	dmesg
Physical RAM	1M TB	4TB	64 GB {>2.3.24}	16TB
Shared Memory	64K TB	8TB		
Process Data Space	384K TB	4TB	900 MB	
Swap device	/dev/hd6	/dev/vg00/lvol2	/dev/sda2	/dev/vx/dsk/swapvol
Swap file type	/etc/swapspaces	swap	partition type 82	swap
Display swap size	lsps -a	swapinfo -a	free	swap -l
Activate Swap	swapon -a	swapon -a	swapon -a	swap -a
Printers	AIX	HP-UX	LINUX	Solaris
Printer Queues	/etc/qconfig	/etc/lp/interface/*	/var/spool/lpd/lp/*	/etc/lp/interfaces/*
Stop LP	stopsrc -s lpd	lpshut	/etc/init.d/lpd stop	/usr/lib/lp/lpshut
Start LP	startsrc -s lpd	lpsched	/etc/init.d/lpd start	/usr/lib/lp/lpsched
Submit print jobs	enq lp lpr qpvt	lp	lpr	lp lpr
LP statistics	enq -A lpq lpstat qchk	lpstat	lpq	lpstat
Remove print jobs	cancel lprm qcan enq -x	cancel	lprm	cancel lprm
Add printer queue	smit mkpq	lpadmin -p pq	printtool	lpadmin -p pq
Remove Printer queue	smit rmpq	lpadmin -x pq		lpadmin -x pq
Make default printer	export LPDEST="pq"	lpadmin -d pq		lpadmin -d pq
TCP/IP	AIX	HP-UX	LINUX	Solaris
Network IP configuration	lsattr -E -l inet0	/etc/rc.config.d/netconf	/etc/sysconfig/network-scripts/	/etc/hostname.* /etc/inet/* /etc/defaultrouter
Hosts IP addresses	/etc/hosts	/etc/hosts	/etc/hosts	/etc/inet/hosts
Name service switch	/etc/netsvc.conf	/etc/nsswitch.conf	/etc/nsswitch.conf	/etc/nsswitch.conf
Network parameters	no -a	ndd -h		ndd /dev/[tcp ip] ?
Routing daemon	gated	gated	routed	in.routed
NIC Configurations	ifconfig -a	lanscan -v	ifconfig -a	ifconfig -a
Secondary IP Address	ifconfig en0 alias IP	ifconfig lan0:1 IP	modprobe ip_alias ifconfig eth0:1 IP	ifconfig hme0:1 IP up
Login prompt	HERALD @ /etc/security/login.cfg	telnetd -b /etc/issue	/etc/issue	BANNER @ /etc/default/telnetd
Increase the # of pseudo-terminals	odmget -q "attribute=num and uniqueness=pty/pty/pty" PdAt sed "s/0-64/0-512/" odmchange -q "attribute=num and uniqueness=pty/pty/pty"	rebuild your kernel with these new values NPTY=# NSTRPY=# reboot	cd /dev ./MAKEDEV -v pty	{/etc/system} set pt_cnt = # {SYSV} set npty = # {BSD} {/etc/iu.ap}

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	-o PdAt chdev -l pty0 -anum=256 -P reboot	insf -d ptys -n # insf -d ptym -n # insf -d pts -s # -e -v		pts l 0 # ldterm ttcompat halt boot -r
Maximum # of ptys	512	{MAXUSERS}	256	176 {BSD} 3000 {SYSV}
Remote Shell	remsh rsh	remsh	rsh	rsh
YP/NIS service binder	/usr/lib/netsvc/yp/ypbind	/usr/lib/netsvc/yp/ypbind	/sbin/ypbind	/usr/lib/netsvc/yp/ypbind
System Files	AIX	HP-UX	LINUX	Solaris
NFS exported	/etc/exports	/etc/exports	/etc/exports	/etc/dfs/dfstab /etc/dfs/sharetab
NFS Client mounted directories	/etc/xtab	/etc/xtab	/var/lib/nfs/xtab	/etc/rmtab
File System	128 GB	128 GB	2 TB	1 TB
File Size	64 GB	128 GB	2 GB {512B block size} 8192 GB {8KB block size}	1 TB
# File Descriptors	64 K	60~ K		64 K
DISK/LVM Commands	AIX	HP-UX:Disk & Filesystem	LINUX	SOLARIS
Filesystem table	/etc/filesystems	/etc/fstab	/etc/fstab	/etc/vfstab
Free disk blocks	df -k	bdf	df -k	df -k
Device listing	lsdev -C	/sbin/iocscan	cat /proc/devices	sysdef
Disk information	bootinfo -s hdisk#	diskinfo /dev/rdisk/c#t#d#		format -d c#t#d# format>current format>inquiry
Disk Label	lspv -l hdisk#	pvdisplay -v /dev/dsk/C#t#d#	fdisk -l	prtvtoc
LVM Concepts	Partition	logical extents	logical extents	sub disk
	Volume	logical volume	logical volume	Volume
				Plex
	Volume group	volume group	volume group	disk group
Journal Filesystem type	jfs	vxfs	ext2	vxfs
Default volume group	/dev/rootvg	/dev/vg00		/dev/vx/dsk/rootdg
Display volume group	lsvg -l rootvg	vgdisplay -v vg00	vgdisplay -v	vxprint -l -g rootdg
Modify physical volume	chpv	pvchange	pvchange	
Prepare physical disk	mkdev -c disk -l hdisk#	pvcreate	pvcreate	vxdiskadd
List physical volume	lspv	pvdisplay	pvdisplay	vxprint -dl
Remove disk from volume group	reducevg	vgreduce	vgreduce	vx dg rmdisk
Move logical volumes to another physical volumes	migratepv	pvmove	pvmove	vxassist move
Create volume group	mkvg	vgcreate	vgcreate	vx dg init
Remove volume group		vgremove	vgremove	

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Volume group availability	chvg varyonvg varyoffvg	vgchange	vgchange	
Restore volume group		vgcfgrestore	vgcfgrestore	
Exports volume group	exportvg	vgexport	vgexport	vx dg deport
Imports volume group	importvg	vgimport	vgimport	vx dg import
Volume group listing	lsvg	vgscan	vgscan	
Change logical volume characteristics	chlv	lvchange	lvchange	vxedit set
List logical volume	lslv	lvdisplay	lvdisplay	vxprint -vl
Make logical volume	mklv	lvcreate	lvcreate	vxassist make
Extend logical volume	extendlv	lvextend	lvextend	vxassist growto
Reduce logical volume	AIX reduce LV	lvreduce	lvreduce	vxassist shrinkto
Remove logical volume	rmlv	lvremove	lvremove	vxedit rm
Prepare boot volumes	bootlist -m normal	lvlnboot	lilo	vxbootsetup
Remove boot volumes		lvrmboot		
Extend File system	chfs -a size=#	extendfs -F vxfs -s # fsadm -F vxfs -b {LE * 1024}	resize2fs	vxva mkfs -M
Reduce/Split mirrors	rmlvcopy	lvsplit	lvsplit	
Merge mirrors		lvmerge	lvmerge	
Create mirrors	mklv -c 2	lvcreate -m 1		vxassist mirror
Add mirrors	mklvcopy lv 2	lvextend -m 1		
Create striped volumes	mklv -u 3 -S 64K	lvcreate -i 3 -I 64	lvcreate -i 3 -I 64	vxassist make * * layout=raid5
System recovery tape	mksysb -i /dev/rmt0	/opt/ignite/bin/make_recovery		
Backup	savevg -i rootvg	fbackup	tar cvf /dev/rst0 /	ufsdump
Restore	restvg	frecover	tar xvf /dev/rst0	ufsrestore
MISC	AIX	HP-UX	LINUX	SOLARIS
Startup script	/etc/rc	/sbin/rc	/etc/rc.d/rc	/sbin/rc#run-level
Kernel	/usr/lib/boot/unix_up	/stand/vmunix	/boot/vmlinuz	/kernel/genunix
Kernel Parameters	lsattr -E -l sys0	kmtune kmsystem	/boot/vmlinuz	sysdef- i
Reconfigure the kernel	chdev -l sys0 -a	cd /stand/build /usr/sbin/sysadm/system_prep -v -s system vi system mk_kernel -s system cd /stand mv system system.prev mv vmunix vmunix.prev mv dlkm dlkm.prev mv ./build/system system kmupdate /stand/build	cd /usr/src/linux make mrproper make menuconfig make dep make clean make bzimage make install make modules make modules_install	vi /etc/system
List modules		kmadmin -s	lsmod	modinfo
Load module		kmadmin -L	insmod	modload
Unload module		kmadmin -U	rmmmod	modunload
Initialize system	install_assist	set_parms initial		sys-unconfig

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Physical RAM	bootinfo -r	grep -i Physical /var/adm/syslog/syslog.log	cat /proc/meminfo	prtconf
Kernel Bits	getconf WORD_BIT	getconf KERNEL_BITS		isainfo -kv
Crash utility	crash	crashutil		crash
Machine model	uname -m bootinfo -m	model uname -m	uname -m	uname -imp
OS Level	oslevel	uname -r	uname -r	uname -r
Run Level	who -r	who -r	runlevel	who -r
Core dump files	/var/adm/ras	/var/adm/crash		/var/crash/^uname -n`
Boot single user	Key on service mode/F4 Boot from CD/Tape Select Maintenance Limited function Shell	ISL>hpux -iS	linux S	ok boot -s
Maintenance mode		ISL>hpux -lm		ok boot -as
Interrupt Key		control-B		Stop-A
Return to console		co		ok go
Software	AIX	HP-UX	LINUX	SOLARIS
Install Software	installp -a	swinstall	rpm -i package	pkgadd
Uninstall software	installp -u	swremove	rpm -e package	pkgrm
List installed software	lspp -L all	swlist	rpm -qa	pkginfo
Verify installed software	lppchk -v	swlist -l fileset -a state		pkginfo -i pkginfo -p
List all files	lspp -f fileset	swlist -l file fileset	rpm -ql package	pkgchk -l package
List installed patches	instfix -i	swlist -l patch what /stand/vmunix		patchadd -p
Package owner	lspp -w path	swlist -l file grep path	rpm --query --file file	pkgchk -l -p path
SW Directory	/usr/lpp	/var/adm/sw/	/var/lib/rpm	/var/sadm
Devices	AIX	HP-UX	LINUX	SOLARIS
Devices	/dev	/dev	/dev	/devices
Install devices for attached peripherals	cfgmgr -v	insf -e	/dev/MAKEDEV	drvconfig devlinks disks tapes ports
Remove device	rmdev -l	rmsf		rem_drv
Device drivers	lscfg	lsdev		prtconf -D
CPU	lsdev -Cc processor	ioscan -fnC processor		psrinfo -v
List Terminal	lsdev -Cc tty	ioscan -fnC tty		pmadm -l
Diagnostics	diag	stm		/usr/platform/^uname -m`/ sbin/prtdiag ok test-all /opt/SUNWvts/bin/sunvts
Whole Disk	/dev/hdisk#	/dev/dsk/c#t#d0	/dev/sda	/dev/c#t#d0s2
CDROM	/dev/cd0	/dev/dsk/c#t2d0	/dev/cdrom	/dev/dsk/c#t6d0s2

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CDROM file type	cdrfs	cdfs	iso9660	hsfs
Rewinding tape drive	/dev/rmt0	/dev/rmt/0m	/dev/rst0 { c 9 0}	/dev/rmt/0
Non-rewinding tape drive	/dev/rmt0.1	/dev/rmt/0mn	/dev/nrst0 { c 9 128 }	/dev/rmt/0n
Floppy drive	/dev/rfd0	-	/dev/fd0	/dev/diskette
Links	AIX	HP-UX	LINUX	SOLARIS
FAQ	AIX-FAQ	HP-UX FAQ	LINUX FAQ	Solaris 2 FAQ
Online Manual	AIX 4.3 Books	HP-UX 11.00 Collection	Linux Documentation Project	Solaris 7 Documentation
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