Saul Coval Computers

http://www.coval.net

Basic Solaris Commands

Ouick Reference Card

Conventions <cr> <esc> <ctrl-x> italics</ctrl-x></esc></cr>	RETURN key ESCAPE key DELETE key press <control> key and type x items to be replaced by your own requirements</control>
Shell Commands passwd logout	Change password End terminal session
File Hierarchy cd dir1 ls ls -1 mkdir dir1 rmdir dir1 cp f1 f2 mv f1 [f2] dir1 mv dir1 dir2 rm filename ln file1 name ln -s file1 name	Change to directory <i>dir1</i> List files in directory List files in detail Create new directory <i>dir1</i> Remove directory <i>dir1</i> Copy file <i>f1</i> to <i>f2</i> Move files <i>f1</i> to <i>fn</i> to directory <i>dir1</i> Rename directory <i>dir1</i> as <i>dir2</i> Delete (remove) file <i>filename</i> Create a hard link to <i>file1</i> called <i>name</i> Create a soft link to <i>file1</i> called <i>name</i> Show path to current directory
Getting Help man name	Show man page for command

	n ame
man -k <i>subject</i>	Show man pages relating to
	subject
man -s# <i>subject</i>	Show man page relating to
	<pre>subject in section number #</pre>
man -s# Intro	Show introductory man page for
	section #

File types and Listing

Classify the file file filename Show any ASCII strings in a file strings filename Display contents of file to STDOUT cat filename more filename Display contents of file one screenful at a time Display first 10 lines of file head filename Display first *n* lines of file head -n filename Display last 10 lines of file tail *filename* Display last *n* lines of file tail -n filename Recursively display last 10 lines of tail -f *filename* file Extract character or fields from text wc filename Count lines, words and characters in file Find differences between two files diff fl f2 Find differences between 3 files diff3 *f1 f2 f3* Sort file alphabetically by first sort filename letter Report or filter out repeated lines

Redirection STDIN

cut

uniq

Redirection	
STDIN	Standard Input, typically the
	keyboard
STDOUT	Standard Output, typically the
	screen
STDERR	Standard Error, where errors are
	sent. Typically the screen
comm > file	Output of comm creates file
comm < file	Contents of file used as input to
	comm
comm 2> filename	Error messages from comm sent to
	file
comm >> filename	Output from comm appended to
	file
cat file < <eof< td=""><td>Create a document called file</td></eof<>	Create a document called file
data	containing data
EOF	
comm1 comm2	Output from comm1 used as input
	to comm2
mkfifo <i>name</i>	Create a named pipe called name
mknod <i>name</i> p	Create a named pipe called name

File Security

umask mode

chmod mode filename

Change security settings on file

chown user [:group] filename

Change owner [and owning group] of

file

chqrp group filename

Change owning group of file Set default creation permissions

Symbolic modes

Mode	Meaning	Mode	Meaning	
u	user	r	read	
g	group	w	write	
0	other	x	execute	
a	all	u+s	setuid	
=	assign	g+s	setgid	
+	add	d +t sticky		
-	remove			

Octal modes

Base directory mode is 777. Base file mode is 666

	user		group			other		
r	w	x	r	w	x	r	w	x
4	2	1	4	2	1	4	2	1
	7		7		7			

Shell Wildcards

Meta- character	Meaning	
*	Any character	
?	Any single character	
[]	A range of characters	

Translations and Sea	rching
tr <i>set1 set2</i>	Translates set1 to set2
sed	Powerful text manipulation tool
grep pattern filen	ame
	Finds lines containing pattern in
	file
grep -v pattern fi	lename
	Finds lines NOT containing
	pattern in file
grep -i pattern fi	lename
	Finds all lines containing
	pattern in file ignoring case
find path condition	
	Finds files matching condition
	from path downwards
find path -inum n	Finds hard links, i.e. All files with
1 1 1 1	the same i-node number
who	Displays users on system
who am i	Shows real user id
W	Displays users on system
id	Shows effective username & UID,
look word	and group membership Searches /usr/dict/words fo word

Regular Expressions

•	Any character
^	Start of line
\$	End of line
*	Any number of the preceding characters
?	A single character
[]	Holds a range
[^]	Holds a negated range
\(\)	Creates a submatch
\1-9	Reference a submatch
١	Escapes special character meanings

Networking

ps

telnet hostname [port] Connects to host and opens a shell. Optionally on specified port. Connects to a remote host to ftp hostname transfer files ssh hostname [command] Makes a secure connection to host and opens a shell. Processes and Process Control Displays processes running on a host Displays iterating list of processes prstat by CPU usage Run command in background command & Print list of jobs jobs Resume foreground job *n* fq [%n] Resume background job *n* bq [%n] Suspend background job n stop %n Kill job n kill [%n] <Ctrl-c> Interrupt process Suspend current process <Ctrl-z> kill n Kill process n Terminate process n kill -9 n <Ctrl-s> Stop screen scrolling <Ctrl-q> Resume screen output Sleep for *n* seconds sleep n

Shells and Variables

set

env

! n

variable=value Create local variable variable with value value Make variable an export *variable* environmental variable Remove environment variable unset *variable* Show local variables Show environmental variables alias name1 name2 Create command alias Show command aliases alias unalias *name1* Remove command alias name1 history Display recent commands Submit recent command *n* Recall commands, edit and reset -o vi execute using vi commands

Recall commands, edit and re-execute set -o emacs using emacs commands

Shell Initialization

/etc/profile (\$HOME/.profile)

sh, bash, ksh system wide (per user) init (system wide init has no effect in CDE environment). /etc/.login (\$HOME/.login) csh, tcsh system wide (per user) init

(system wide init has no effect in CDE environment).

\$HOME/.cshrc

per user csh, tcsh init (order: /etc/.login \rightarrow \$HOME/.cshrc \rightarrow \$HOME/.login) \$HOME/.kshrc

per user ksh init

(order: /etc/profile \rightarrow \$HOME/.profile \rightarrow \$HOME/.kshrc)

\$HOME/.bashrc

per user bash init (order: /etc/profile \rightarrow \$HOME/.profile \rightarrow \$HOME/.bashrc)

Shell Programming

#!path/to/shell

'sh-bang' is a special string which indicates that the path following contains the location of the command to run the script

Flow Control

	sh;bash;ksh	csh;tcsh
if- then- else	<pre>if [condition]; then actions_1; elif [condition]; then actions_2; else actions_3; fi</pre>	<pre>if (condition) then action_1; else if (condition) then action_2; else action_3; endif</pre>
do while	<pre>while [condition]; do actions; done</pre>	while (condition) actions end
until	<pre>until [condition]; do actions; done</pre>	Not available
for	<pre>for arg in list; do actions; done</pre>	foreach arg (list) actions end