

Doing More with SunOS: Quick Reference

This quick reference lists commands presented in this manual, including a syntax diagram and brief description.

1. Files

1.1. Filename Substitution

Wild Cards	? *
Character Class	[c...]
Range	[c-c]
<i>c</i> is any single character.	
String Class	{str[, str]}
<i>str</i> is a combination of characters, wild cards, embedded character classes and embedded string classes.	
Home Directory	-
Home Directory of Another User	~user
List Hidden Files	ls -[1]a

1.2. File Properties

Seeing Permissions	ls -l filename
Changing Permissions	chmod nnn filename chmod c=p...[,c=p...] filename
<i>n</i> , a digit from 0 to 7, sets the access level for the user (owner), group, and others (public), respectively. <i>c</i> is one of: u – user, g – group, o – others, or a – all. <i>p</i> is one of: r – read access, w – write access, or x – execute access.	
Setting Default Permissions	umask ugo
<i>ugo</i> is a (3-digit) number. Each digit restricts the default permissions for the user, group and others, respectively.	
Changing Modification Time	touch filename
Making Links	ln oldname newname ln -s oldname newname

Seeing File Types

ls -F

1.3. Encrypting Files

Source Files	crypt < source > encrypted
Editing	vi -x encrypted
Decrypting Files	crypt < encrypted more crypt < encrypted > text
<i>crypt</i> asks for the encryption key.	

1.4. Searching with more

Run <i>more</i>	more filename
Next Line	Return
Next 11 Lines	d
Next Page	SPACE
Search for Pattern	/pattern
Next Occurrence	n
Next File	:n

1.5. The Directory Stack

Change Directory, Push	pushd directory
Change to Top Directory, Pop	popd
Show Stack	dirs

2. Commands

2.1. Command-Line Special Characters

Quotes and Escape

Join Words	"..."
Suppress Filename, Variable Substitutions	'...'
Escape Character	\

Separation, Continuation

Command Separation	;
Command-Line Continuation	\Return

2.2. I/O Redirection and Pipes

Standard Output	>
	>!
Appending to Standard Output	>>
	>>!
Standard Input	<
Standard Error and Output	>&
Standard Error Separately	(command > output) >& errorfile
Pipes/Pipelines	command filter [filter] ...
Duplicating Displayed Output	command tee filename

Filters

Word/Line Count	wc [-l]
First <i>n</i> Lines	head [-n]
Last <i>n</i> Lines	tail [-n]
Skip to Line <i>n</i>	tail [+n]
Show Nonprinting Characters	cat -v
Sort lines	sort [-n]
Format Paragraphs	fmt
Reverse Character Order	rev
Multicolumn Output	pr -t
List Spelling Errors	spell
Substitutions in Output Stream	sed -e "s/pattern/string/[g]"

Report-Generation

awk

2.3. Searching with grep

grep Command	grep "pattern" filename command grep "pattern"
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grep Search Patterns

beginning of line	^
end of line	\$
any single character	.
single character in list or range	[...]

character not in list or range [^...]
 zero or more of preceding character *
 or pattern *
 zero or more of any character .*
 escapes special meaning \

3. C-Shell Features

3.1. History Substitution

The History List

Set Up History List `set history=n`
 See History List `history [-h]`

Event Designators

Repeat Previous Command `!!`
 Display Previous Command `!!:p`
 Command Line *n* `!n`
n Commands Back `!-n`
 Command Beginning with *str* `!str`
 Command Containing *str* `!str[?]`
 All Arguments to Prev. Command `!*`
 Last Argument to Prev. Command `!$`
 First Argument to Prev. Command `!^`
n'th Argument `!:n`

Word Designators

All Arguments `:*`
 Last Argument `:$`
 First Argument `:^`
n'th Argument `:n`
 Arguments *x* Through *y* `:x-y`

Modifiers

Print Command Line `:p`
 Substitute Command Line `:[g]s//r/`

3.2. Aliases

alias Command `alias name 'definition'`
definition can contain escaped history substitution event and word designators as placeholders for command-line arguments.

3.3. Variable Substitution

Creating a Variable `set var`
 Assigning a Value `set var = value`
 Expressing a Value `$var`
 Displaying a Value `echo $var`
value is a single word, an expression in quotes, or an expression that results in a single word after variable, filename and command substitution takes place.

Assigning a List `set var = (list)`
list is a space-separated list of words, or an expression that results in a space-separated list.
 Selecting the *n*'th Item `$var[n]`
 Selecting all Items `$var`
 Selecting a Range `$var[x-y]`
 Item Count `$#var`

3.4. foreach Lists

Start foreach Loop `foreach var (list)`
foreach prompts for commands to repeat for each item in *list* (with >), until you type **end**. Within the loop, *\$var* stands for the current item in *list*.

3.5. Command Substitution

Replace Command with its Output on the Command Line ``...``

3.6. Job Control

Run Command in the Background `&`
 Stop Foreground Job `Control-Z`
 List of Background Jobs `jobs`

Bring Job Forward `%[n]`
 Resume Job in Background `%[n]`

4. Processes

Listing `ps -[aux]`
 Terminating `kill [-9] PID`
 Timing `time command`
 Scheduling `at time[ap] script`
time is a number up to 4 digits. *script* is the name of a file containing the command line(s) to perform.

5. Users

Seeing Who Is Logged In `who`
`w`
 Changing Identities `su [username]`
 Seeing Your User Name `whoami`
`who am i`
`who is this`

6. Managing Files

6.1. Looking Up Files

Standard Commands `whereis file`
 Aliases and Commands `which command`
 Describe Command `whatis filename`
 Searching Out Files

`find dir -name name -print`

dir is a directory name within which to search.
name is a filename to search for.

6.2. Tracking Changes

Comparing Files `diff leftfile rightfile`
diff prefixes a left angle-bracket (<) to selected lines from *leftfile* and a right angle bracket (>) to lines from *rightfile*.

Auditing Changes

Putting Files Under `sccs` `mkdir SCCS`
 `chmod 775 SCCS`
 `sccs create filename ...`
 `rm ,*`

Checking Files Out `sccs edit filename ...`

Checking Files In `sccs delget filename ...`

Backing Files Out `sccs unedit filename ...`

Recovering Current Versions

`sccs get SCCS`

Reviewing Pending Changes

`sccs diffs filename ...`

6.3. Automating Tasks

Create a Makefile `vi Makefile`

A makefile consists of macro definitions and targets.

Test Makefile `make -n [target]`

Run make `make [target]`

6.4. Managing Disk Usage

Seeing Disk Usage `df`
 `du -s`
 `du | sort -r -n`
 `ls -l`

Making A Tape Archive

`tar -cv[f drive] file ...`

Extracting Archived Files

`tar -xv[f drive] file ...`

7. Printing

7.1. The Printer Queue

List the Queue `lpq`

Removing a Printer Job `lprm job`

Removing Your Printer Jobs `lprm -`

Selecting a Printer `lpr -Pprinter`
 `l -P rinter`

`lprm -Pprinter job`

7.2. Printing troff Output and Screen Dumps

troff Output `lpr -t`

Screen Dumps

`screendump [| rastrepl] | lpr -v`