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# Special Characters

## Topic

## Where to Look

!	history substitution — <code>cs</code> logical negation operator — <code>cs</code>	<i>SunOS Reference Manual</i> , 100 <i>SunOS Reference Manual</i> , 103
!!	event designator	<i>SunOS User's Guide: Doing More</i> , 27
!\$	event designator	<i>SunOS User's Guide: Doing More</i> , 27
!*	argument designator	<i>SunOS User's Guide: Doing More</i> , 29
+ <i>n</i>	event designator	<i>SunOS User's Guide: Doing More</i> , 28
!: <i>n</i>	argument designator	<i>SunOS User's Guide: Doing More</i> , 29
!=	— not equal to operator — <code>cs</code>	<i>SunOS Reference Manual</i> , 103
!? <i>str</i> ?	event designator	<i>SunOS User's Guide: Doing More</i> , 29
!^	argument designator	<i>SunOS User's Guide: Doing More</i> , 29
!~	globbing pattern mismatch operator — <code>cs</code>	<i>SunOS Reference Manual</i> , 103
!adb	verb	<i>Debugging Tools</i> , 96
!mail	command	<i>SunOS Reference Manual</i> , 309
!n	event designator	<i>SunOS User's Guide: Doing More</i> , 27
! <i>string</i>	event designator	<i>SunOS User's Guide: Doing More</i> , 28
#!	invoke shell to process script	<i>SunOS Reference Manual</i> , 105
#	C shell comment symbol	<i>SunOS User's Guide: Customizing Your Environment</i> , 8
#	mail command	<i>SunOS Reference Manual</i> , 309
\$	— variable substitution	<i>SunOS Reference Manual</i> , 102
\$#	— word count for variable	<i>SunOS Reference Manual</i> , 102
\$\$	— process number of shell	<i>SunOS Reference Manual</i> , 103
\$<	— read value from terminal — <code>cs</code>	<i>SunOS Reference Manual</i> , 103
\$?	— variable set inquiry — <code>cs</code>	<i>SunOS Reference Manual</i> , 103
\$adb	verb	<i>Debugging Tools</i> , 96
.\$	(number of arguments) number register	<i>Using nroff and troff</i> , 89
%	job control, reference to current job — <code>cs</code> job to foreground/background — <code>cs</code> modular division operator — <code>cs</code>	<i>SunOS Reference Manual</i> , 105 <i>SunOS Reference Manual</i> , 111 <i>SunOS Reference Manual</i> , 103
%%	in checkpoint filename	<i>SunView User's Guide</i> , 127, 164
%	in backup filename	<i>SunView User's Guide</i> , 127
&	bitwise AND operator — <code>cs</code> run command in background	<i>SunOS Reference Manual</i> , 103 <i>SunOS Reference Manual</i> , 99
&&	execute on success — <code>cs</code> logical AND operator — <code>cs</code>	<i>SunOS Reference Manual</i> , 99 <i>SunOS Reference Manual</i> , 103
\&	(zero-width non-printing) function	<i>Using nroff and troff</i> , 113
&	runs tool in the background	<i>SunView User's Guide</i> , 167
'	quote character	<i>SunOS Reference Manual</i> , 99
( )	command grouping — <code>cs</code> group operators — <code>cs</code>	<i>SunOS Reference Manual</i> , 99 <i>SunOS Reference Manual</i> , 103
*	filename wild card, zero or more of any characters integer multiplication operator — <code>cs</code>	<i>SunOS Reference Manual</i> , 103 <i>SunOS Reference Manual</i> , 103
*	(indicates executable)	<i>SunOS User's Guide: Getting Started</i> , 26
+	— integer addition operator — <code>cs</code>	<i>SunOS Reference Manual</i> , 103

<i>.file</i> , SCCS comma-file	<i>Programming Utilities and Libraries</i> , 94
- — integer subtraction operator — <i>cs</i> h	<i>SunOS Reference Manual</i> , 103
. (current directory)	<i>SunOS User's Guide: Getting Started</i> , 14
.. (parent directory)	<i>SunOS User's Guide: Getting Started</i> , 14, 19, 21
. (dot) command	<i>SunOS Reference Manual</i> , 504
. prefix, explained	<i>SunOS User's Guide: Customizing Your Environment</i> , 7
/ — integer division operator — <i>cs</i> h	<i>SunOS Reference Manual</i> , 103
/ (indicates directory)	<i>SunOS User's Guide: Getting Started</i> , 26
/ (pathname separator)	<i>SunOS User's Guide: Getting Started</i> , 10
/ (root directory)	<i>SunOS User's Guide: Getting Started</i> , 10
/ adb verb	<i>Debugging Tools</i> , 96
/ dbx command	<i>Debugging Tools</i> , 26
: \$ argument designator	<i>SunOS User's Guide: Doing More</i> , 29
: * argument designator	<i>SunOS User's Guide: Doing More</i> , 29
: ^ argument designator	<i>SunOS User's Guide: Doing More</i> , 29
: 0 argument designator	<i>SunOS User's Guide: Doing More</i> , 29
: adb verb	<i>Debugging Tools</i> , 96
: command	<i>SunOS Reference Manual</i> , 106, 504
: g event modifier	<i>SunOS User's Guide: Doing More</i> , 30
: modifiers — history substitution — <i>cs</i> h	<i>SunOS Reference Manual</i> , 100
: p event modifier	<i>SunOS User's Guide: Doing More</i> , 30
: s/old/new/ event modifier	<i>SunOS User's Guide: Doing More</i> , 30
; — command separation	<i>SunOS Reference Manual</i> , 99
< input redirection symbol	<i>SunOS User's Guide: Getting Started</i> , 75
less than operator — <i>cs</i> h	<i>SunOS Reference Manual</i> , 103
redirect standard input	<i>SunOS Reference Manual</i> , 101
<<	
bitwise shift left — <i>cs</i> h	<i>SunOS Reference Manual</i> , 103
parse and pass input to command	<i>SunOS Reference Manual</i> , 101
<= — less than or equal to operator — <i>cs</i> h	<i>SunOS Reference Manual</i> , 103
<rasterfile.h>	<i>4.1 Pixrect Reference Manual</i> , 69
<stdio.h>	<i>4.1 Pixrect Reference Manual</i> , 69
= (indicates AF_UNIX socket)	<i>SunOS User's Guide: Getting Started</i> , 26
== — is equal to operator — <i>cs</i> h	<i>SunOS Reference Manual</i> , 103
~= — globbing pattern match operator — <i>cs</i> h	<i>SunOS Reference Manual</i> , 103
= adb verb	<i>Debugging Tools</i> , 96
= mail command	<i>SunOS Reference Manual</i> , 309
> output redirection symbol	<i>SunOS User's Guide: Getting Started</i> , 74
greater than operator — <i>cs</i> h	<i>SunOS Reference Manual</i> , 103
redirect standard output	<i>SunOS Reference Manual</i> , 101
>! (overwrite file)	<i>SunOS User's Guide: Getting Started</i> , 75
>& redirect standard output and standard error	<i>SunOS User's Guide: Getting Started</i> , 79; <i>SunOS Reference Manual</i> , 101
>= — greater than or equal to operator — <i>cs</i> h	<i>SunOS Reference Manual</i> , 103
>> append output	<i>SunOS User's Guide: Getting Started</i> , 75
append standard output	<i>SunOS Reference Manual</i> , 101
bitwise shift right — <i>cs</i> h	<i>SunOS Reference Manual</i> , 103
>>& append standard output and standard error	<i>SunOS User's Guide: Getting Started</i> , 79; <i>SunOS Reference Manual</i> , 101
> in Text Editor icon	<i>SunView User's Guide</i> , 76
> adb verb	<i>Debugging Tools</i> , 96
? — filename wild card, any single characters	<i>SunOS Reference Manual</i> , 103
? adb verb	<i>Debugging Tools</i> , 96
? mail command	<i>SunOS Reference Manual</i> , 309
@ — arithmetic on variables — <i>cs</i> h	<i>SunOS Reference Manual</i> , 111
@ (indicates link)	<i>SunOS User's Guide: Getting Started</i> , 26
@ adb verb	<i>Debugging Tools</i> , 96
[ ] — filename substitution, any character in list or range	<i>SunOS Reference Manual</i> , 103
[ and ]	<i>SunOS User's Guide: Getting Started</i> , 73

- % (page-number) number register
  - ◆ keys
  - " quote character
  - \ escape character
  - \!\* — alias substitution, include command-line arguments — *cs*h
  - \!\* (alias argument designator)
  - \!n (alias argument designator)
  - \ (unpaddable space) function
    - ^ bitwise XOR operator — *cs*h
    - quick substitution — *cs*h
  - \^ (thin space) function
  - ^ and *stty*
  - \_ in text
  - \_toupper () — convert character to upper-case, System V
  - ` — command substitution
  - { } — filename substitution, successive strings in enclosed list
  - { and }
  - | pipe symbol
    - bitwise OR operator — *cs*h
    - pipe standard output
  - |& send diagnostic output through pipe
  - \| (thick space) function
  - ||
    - execute on failure — *cs*h
    - logical OR operator — *cs*h
  - | mail command
  - | with *get\_selection* command
  - ~
    - filename substitution, home directory
    - one's complement operator — *cs*h
  - ~! — mail tilde escape
  - ~ (home directory)
  - ~. — mail tilde escape
  - ~: — mail tilde escape
  - ~< — mail tilde escape
  - ~? — mail tilde escape
  - ~\_ — mail tilde escape
  - ~| — mail tilde escape
- 
- \0 (digit-size space) function
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  - 0 error number
  
  - 1 adb variable — last offset
  - 1 error number
  - 1.80, SunView Update
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    - tm* — tapemaster
    - xt* — Xylogics 472
  - 1/4-inch tape drive
    - ar* — Archive 1/4-inch Streaming Tape Drive
  - 10 error number
  - 10 Mb/s Sun Ethernet interface — *ie*
  - 11 error number
  - 12 error number

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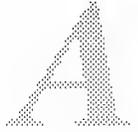
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- 90 error number *SunOS Reference Manual*, 689



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- ~A — mail tilde escape
- a.out
- a.out — assembler and link editor output
- a64l () — convert long integer to base-64 ASCII
- abbreviation
- AF\_UNIX socket (=)
  - current directory (.)
  - directory (/)
  - executable (\*)
  - home directory (~)
  - multiple filename characters (\*)
  - parent directory (..)
  - pathname separator (/)
  - root directory (/)
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- abort () — generate fault
- aborting an operation
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- .ab (abort) request
- abs () — integer absolute value
- absolute expressions
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- accelerator
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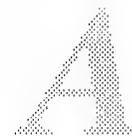


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  - used with Find
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- `aint()` — convert to integral floating
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- `aioread()` — initiate asynchronous read
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  - cpio — copy archive
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  - and the dump command
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## ARPANET

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### ARPANET

glossary definition  
arp — address resolution display and control

arp ioctl

    SIOCDDARP — delete arp entry

    SIOCGARP — get arp entry

    SIOCSARP — set arp entry

arp — Address Resolution Protocol

arrays, large in dbx

arrow keys

as

### ASCII

    string to long integer — `strtol()`

    to integer — `atoi()`

    to long — `atol()`

### ASCII\_DEVID

.ascii directive

ASCII dump file — `od`

ASCII events

ascii — ASCII character set

ASCII string to double — `strtod()`

ASCII to Ethernet address — `ether_aton()`

ASCII to float — `atof()`

.asciz directive

asctime() — date and time conversion

asin() — trigonometric arcsine

asinh() — inverse hyperbolic function

askcc mail variable

asking for help, information needed

asksub mail variable

.as (append to string) request

assembler

    and cpp

    case distinction

    comments

    coprocessor instructions

    delay slots

    error messages

    expressions

    hardware instructions

    #include files

    instruction-set

    invoking

    labels

    leaf procedure

    lexical features

    numbers

    operators

    optimization

    options

    pseudo-operations

    register routines

    special symbols

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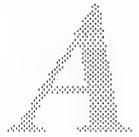
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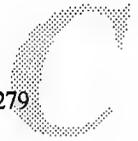


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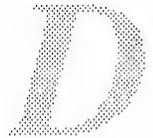
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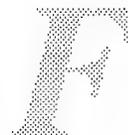
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`icmp` — Internet Control Message Protocol

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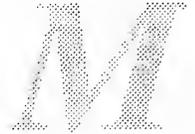
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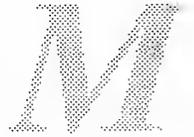
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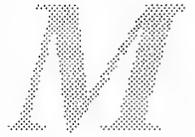
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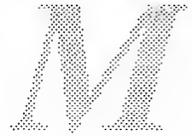
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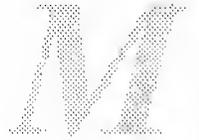
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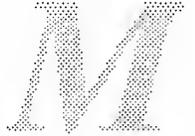
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- query
- RFS name server
- question mark
- queue
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 r (indicates readable directory)  
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- driver
- installation
- source code
- test program

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 random () — generate random number  
 random access
 

- lseek ()
- seek ()

 random game  
 random number generator
 

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- initstate ()
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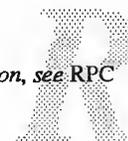


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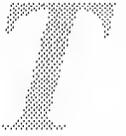
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  - `SIOCSLOWAT` — set low water mark
- `tcp` — Internet Transmission Control Protocol
- `tcptli` — TLI-Conforming TCP Stream-Head
- `.tc` (set tab character) request
- `tcsendbreak()` — send break to terminal
- `tcsetattr()` — set terminal attributes
- `tcsetpgrp()` — set foreground process group ID
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## terminology

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  - DCP
  - disk and tape
  - Ethernet
  - FPA board
  - graphics processor boards
  - HSI
  - IPI
  - MC68881
  - MC68882
  - memory
  - SCP
  - serial ports
  - SF9010FPC
  - SunDials
  - SunIPC
    - under Sundiag
- test results — Sundiag
- text
  - copying
  - cutting
  - deferred resolution of symbols
  - deleting
  - editing
  - erasing
  - filtering
  - finding and replacing
  - font
  - handling in different windows
  - in panel
  - inserting
  - long lines
  - moving
  - pasting
  - quick editing
  - quoting commands
  - replacing
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- sed — stream editor
- sed stream editor
- vi — visual editor
- vi display editor
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  - frame
- text file
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  - more
  - page
- text formatter (nroff)
  - sample memo
- text formatter (troff)
  - sample memo
- text item
- text item in panel
- text lines
  - as troff input
  - ignoring
  - words in
- text manipulation
  - awk program
  - cat — view files sequentially
  - comm — find common lines
  - comparing binary files
  - comparing directories
  - comparing files
  - comparing text files
  - diff3 — compare three files
  - diff — compare directories
  - diff — compare text files
  - diff — merge text files
  - egrep — extended pattern search
  - fgrep — fixed string search
  - file manipulation
  - grep — pattern searching
  - head — top of file
  - inverted search for pattern
  - join — join database fields
  - modifying files
  - more — view files selectively
  - pattern searching
  - printing files
  - regular expressions
  - scanning files
  - search for string pattern
  - searching through files
  - sed stream editor
  - tail — bottom of file
  - uniq — for repeated lines
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## Topic

~v — mail tilde escape  
 \v (vertical motion) function  
 v\_func field  
 v\_vec field  
 v\_vptr field  
 va\_arg () — next argument in variable list  
 va\_dcl () — variable argument declarations  
 va\_end () — finish variable argument list  
 va\_list () — variable argument declarations  
 va\_start () — initialize varargs  
 vacation — automatic mail replies  
 vacation program  
 vadvise () — advise paging system  
 val, sccs subcommand  
 val — validate SCCS file  
 validate SCCS file — val  
 valloc ()  
 values () — machine-dependent values  
 /var directory  
   /tmp  
 /var/adm/messages  
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 /var/adm/sundiaglog/options  
 varargs () — variable argument list  
 VARARGS2 — lint control  
 VARARGS — lint control  
 variable argument list, — varargs ()  
 variables  
   and the C shell  
   environment  
   get configurable system variables  
   home  
   in Bourne shell  
   in C shell  
   path  
   predefined in the C shell  
 variables, accessing from environment  
 variables, environment  
 variables in adb  
   0 — last value printed  
   1 — last offset  
   2 — previous value of 1  
   9 — count on last read  
   b — data segment base  
   d — data segment size  
   e — entry point  
   m — magic number  
   s — stack segment size  
   t — text segment size

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    - /crash
    - /preserve
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    - /tmp
    - /yp
  - vax — machine type truth value
  - vc command
  - vector display
  - vectored interrupts
  - vector numbers
  - verbose mail variable
  - verbose variable
  - verbs in adb
    - !
    - \$
    - /
    - :
    - =
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- adjusting the screen
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- and a full disk
- and data loss
- and deleted text
- and disk quota
- and view
- appending text
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- Back Space key
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- buffer for editing
- can't write out changes
- canceling search-and-replace
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- C command
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- changing line
- changing part of line
- changing text
- changing word
- character by character
- clearing screen
- :co command
- colon commands
- comes up as ex
- command mode
- command mode and insert mode
- command reference
- command table
- compared to ex
- copying lines (:co)
- copying lines (yank and put)
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- corrections
- counted commands
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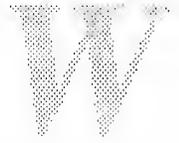
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zcat — extract compressed files	<i>SunOS Reference Manual</i> , 85
zdump command	<i>SunOS Reference Manual</i> , 2169
zero-width character	<i>Using nroff and troff</i> , 14, 113
zero byte strings	
bzero ()	<i>C Programmer's Guide</i> , 61
zero byte strings — bzero ()	<i>SunOS Reference Manual</i> , 916
zero motion function	<i>Using nroff and troff</i> , 115
zic command	<i>SunOS Reference Manual</i> , 2170
z mail command	<i>SunOS Reference Manual</i> , 313
.z (name of current diversion) number register	<i>Using nroff and troff</i> , 94
zones	<i>System and Network Administration</i> , 516, 63
Zoom, in Frame menu	<i>SunView User's Guide</i> , 37, 124
zs — zilog 8530 SCC serial communications driver	<i>SunOS Reference Manual</i> , 1518 thru 1519

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