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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> , 98 <i>SunOS Reference Manual</i> , 101
!!	command	<i>Getting Started with SunOS</i> , 94, 110
!\$	command	<i>Getting Started with SunOS</i> , 94, 110
!:n	n'th argument designator	<i>Doing More with SunOS</i> , 40
!=	— not equal to operator — <code>cs</code>	<i>SunOS Reference Manual</i> , 101
!?	event search designator	<i>Doing More with SunOS</i> , 40
!^	first argument designator	<i>Doing More with SunOS</i> , 40
!~	globbing pattern mismatch operator — <code>cs</code>	<i>SunOS Reference Manual</i> , 101
!adb	verb	<i>Debugging Tools</i> , 90
!mail	command	<i>SunOS Reference Manual</i> , 296
#!	invoke shell to process script	<i>SunOS Reference Manual</i> , 103
#	C shell comment symbol	<i>Setting Up Your SunOS Environment</i> , 12
#include		<i>Sun-4 Assembly Language Reference</i> , 29
#mail	command	<i>SunOS Reference Manual</i> , 296
\$	— variable substitution	<i>SunOS Reference Manual</i> , 100
\$#	— word count for variable	<i>SunOS Reference Manual</i> , 100
\$\$	— process number of shell	<i>SunOS Reference Manual</i> , 101
\$<	— read value from terminal — <code>cs</code>	<i>SunOS Reference Manual</i> , 101
\$?	— variable set inquiry — <code>cs</code>	<i>SunOS Reference Manual</i> , 101
\$adb	verb	<i>Debugging Tools</i> , 90
.\$	(number of arguments) number register	<i>Using nroff and troff</i> , 109
%	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> , 103 <i>SunOS Reference Manual</i> , 108 <i>SunOS Reference Manual</i> , 101
%%	in checkpoint filename	<i>SunView 1 Beginner's Guide</i> , 139, 180
%	in backup filename	<i>SunView 1 Beginner's Guide</i> , 139
%command	(bring job to foreground)	<i>Doing More with SunOS</i> , 50
%hi		<i>Sun-4 Assembly Language Reference</i> , 7
%lo		<i>Sun-4 Assembly Language Reference</i> , 7
%PSR		<i>Sun-4 Assembly Language Reference</i> , 7
&	bitwise AND operator — <code>cs</code> run command in background	<i>SunOS Reference Manual</i> , 101 <i>SunOS Reference Manual</i> , 97
&&	execute on success — <code>cs</code> logical AND operator — <code>cs</code>	<i>SunOS Reference Manual</i> , 97 <i>SunOS Reference Manual</i> , 101
\&	(zero-width non-printing) function	<i>Using nroff and troff</i> , 137
&	runs tool in the background	<i>SunView 1 Beginner's Guide</i> , 185
'	quote character	<i>SunOS Reference Manual</i> , 97
( )	command grouping — <code>cs</code> group operators — <code>cs</code>	<i>SunOS Reference Manual</i> , 97 <i>SunOS Reference Manual</i> , 101
*	filename wild card, zero or more of any characters integer multiplication operator — <code>cs</code>	<i>SunOS Reference Manual</i> , 101 <i>SunOS Reference Manual</i> , 101
+	— integer addition operator — <code>cs</code>	<i>SunOS Reference Manual</i> , 101

- — integer subtraction operator — csh

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- — integer subtraction operator — csh  
-d C shell file inquiry — directory  
-e C shell file inquiry — file exists  
-f C shell file inquiry — plain file  
-o C shell file inquiry — ownership  
-r C shell file inquiry — read accessible  
-w C shell file inquiry — write accessible  
-x C shell file inquiry — execute accessible  
-z C shell file inquiry — zero length  
. (current working directory)  
.. (parent directory)  
. (dot) command  
. prefix, explained  
/ — integer division operator — csh  
    name of root directory  
    word separator in path names  
/ adb verb  
/ dbx command  
/etc/ethers  
/etc/exports  
/etc/group  
/etc/hosts  
/etc/mount  
/etc/netgroup  
/etc/networks  
/etc/passwd  
/etc/protocols  
/etc/services  
/  
:\$ last argument word designator  
:\* word designator for all arguments  
:^ first argument word designator  
:0 first argument (command) designator  
: adb verb  
:g event modifier global flag  
:n n'th argument word designator  
:p event modifier  
:s/old/new/ event modifier for string substitution  
; separation character  
< input redirection symbol  
    less than operator — csh  
    redirect standard input  
<<  
    bitwise shift left — csh  
    parse and pass input to command  
<= — less than or equal to operator — csh  
<rasterfile.h>  
<stdio.h>  
== — is equal to operator — csh  
=~ — globbing pattern match operator — csh  
= adb verb  
= mail command  
> output redirection symbol  
    greater than operator — csh  
    redirect standard output  
>& redirect standard output and standard error  
>= — greater than or equal to operator — csh  
>> append output  
*SunOS Reference Manual*, 101  
*SunOS Reference Manual*, 102  
*SunOS Reference Manual*, 102  
*SunOS Reference Manual*, 102  
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*SunOS Reference Manual*, 102  
*SunOS Reference Manual*, 102  
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*SunOS Reference Manual*, 101  
*Doing More with SunOS*, 24

append standard output	<i>SunOS Reference Manual</i> , 99
bitwise shift right — <code>cs</code>	<i>SunOS Reference Manual</i> , 101
>>& append standard output and standard error	<i>Doing More with SunOS</i> , 29; <i>SunOS Reference Manual</i> , 99
> in Text Editor icon	<i>SunView 1 Beginner's Guide</i> , 82
> adb verb	<i>Debugging Tools</i> , 90
? — filename wild card, any single characters	<i>SunOS Reference Manual</i> , 101
? adb verb	<i>Debugging Tools</i> , 90
? mail command	<i>SunOS Reference Manual</i> , 296
@ "at" symbol	<i>Mail and Messages</i> , 4; <i>SunOS Reference Manual</i> , 109
@ adb verb	<i>Debugging Tools</i> , 90
[ ] — filename substitution, any character in list or range	<i>SunOS Reference Manual</i> , 101
[ and ]	<i>Doing More with SunOS</i> , 7
% (page-number) number register	<i>Using nroff and troff</i> , 42, 121
◆ keys	<i>SunView 1 Beginner's Guide</i> , 164
" quote character	<i>SunOS Reference Manual</i> , 97
\ escape character	<i>Doing More with SunOS</i> , 29, 30; <i>SunOS Reference Manual</i> , 97
\!* — alias substitution, include command-line arguments — <code>cs</code>	<i>SunOS Reference Manual</i> , 99
\ (unpaddable space) function	<i>Using nroff and troff</i> , 136
^	<i>SunOS Reference Manual</i> , 101
bitwise XOR operator — <code>cs</code>	<i>SunOS Reference Manual</i> , 99
quick substitution — <code>cs</code>	<i>Using nroff and troff</i> , 136
\^ (thin space) function	<i>Mail and Messages</i> , 53
? command in mail	<i>Setting Up Your SunOS Environment</i> , 6
^ and stty	<i>SunView 1 Beginner's Guide</i> , 103
_ in text	<i>SunOS Reference Manual</i> , 1134
_toupper () — convert character to upper-case, System V	
\ — command substitution	<i>SunOS Reference Manual</i> , 101
'Show Full Header'	<i>Mail and Messages</i> , 20
{ } — filename substitution, successive strings in enclosed list	<i>SunOS Reference Manual</i> , 101, 102
{ and }	<i>Doing More with SunOS</i> , 8
pipe symbol	<i>Doing More with SunOS</i> , 25
bitwise OR operator — <code>cs</code>	<i>SunOS Reference Manual</i> , 101
pipe standard output	<i>SunOS Reference Manual</i> , 97
& send diagnostic output through pipe	<i>Doing More with SunOS</i> , 29; <i>SunOS Reference Manual</i> , 97
\  (thick space) function	<i>Using nroff and troff</i> , 136
	<i>SunOS Reference Manual</i> , 97
execute on failure — <code>cs</code>	<i>SunOS Reference Manual</i> , 101
logical OR operator — <code>cs</code>	<i>SunOS Reference Manual</i> , 298
mail command	<i>SunView 1 Beginner's Guide</i> , 115
with get_selection command	
~	<i>SunOS Reference Manual</i> , 101
filename substitution, home directory	<i>SunOS Reference Manual</i> , 101
one's complement operator — <code>cs</code>	<i>SunOS Reference Manual</i> , 294
~! — mail tilde escape	<i>SunOS Reference Manual</i> , 294
~. — mail tilde escape	<i>SunOS Reference Manual</i> , 295
~< — mail tilde escape	<i>SunOS Reference Manual</i> , 294
~? — mail tilde escape	<i>SunOS Reference Manual</i> , 294
~_ — mail tilde escape	<i>SunOS Reference Manual</i> , 294
~  — mail tilde escape	<i>SunOS Reference Manual</i> , 294
~A — mail tilde escape	<i>SunOS Reference Manual</i> , 294
~b — mail tilde escape	<i>SunOS Reference Manual</i> , 295
~c — mail tilde escape	<i>SunOS Reference Manual</i> , 295
~d — mail tilde escape	<i>SunOS Reference Manual</i> , 295
~e — mail tilde escape	<i>SunOS Reference Manual</i> , 295
~f — mail tilde escape	<i>SunOS Reference Manual</i> , 295

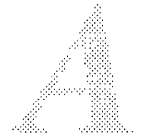
- ~h — mail tilde escape *SunOS Reference Manual*, 295
- ~i — mail tilde escape *SunOS Reference Manual*, 295
- ~m — mail tilde escape *SunOS Reference Manual*, 295
- ~p — mail tilde escape *SunOS Reference Manual*, 295
- ~q — mail tilde escape *SunOS Reference Manual*, 295
- ~r — mail tilde escape *SunOS Reference Manual*, 295
- ~s — mail tilde escape *SunOS Reference Manual*, 295
- ~t — mail tilde escape *SunOS Reference Manual*, 295
- ~v — mail tilde escape *SunOS Reference Manual*, 295
- ~w — mail tilde escape *SunOS Reference Manual*, 295
- ~x — mail tilde escape *SunOS Reference Manual*, 295
  
- \0 (digit-size space) function *Using nroff and troff*, 134
- 0 adb variable — last value printed *Debugging Tools*, 90
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- Or-nan *Sun-4 Assembly Language Reference*, 5
- Orinf *Sun-4 Assembly Language Reference*, 5
- Ornan *Sun-4 Assembly Language Reference*, 5
  
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  - t.m — tapemaster *SunOS Reference Manual*, 1318
  - xt — Xylogics 472 *SunOS Reference Manual*, 1331
- 1/2 inch tape
  - backing up to *System and Network Administration*, 87
  - specifications *System and Network Administration*, 83
- 1/4-inch tape drive
  - ar — Archive 1/4-inch Streaming Tape Drive *SunOS Reference Manual*, 1193
  - st — Sysgen SC 4000 (Archive) Tape Drive *SunOS Reference Manual*, 1292 thru 1293
- 1/4 inch tape
  - backing up to *System and Network Administration*, 89 thru 92
  - specifications *System and Network Administration*, 84
- 10 Mb/s 3Com Ethernet interface — ec *SunOS Reference Manual*, 1214
- 10 Mb/s Sun-3/50 Ethernet interface — le *SunOS Reference Manual*, 1254 thru 1255
- 10 Mb/s Sun Ethernet interface — ie *SunOS Reference Manual*, 1224 thru 1225
- 1 adb variable — last offset *Debugging Tools*, 90
  
- 2 adb variable — previous value of 1 *Debugging Tools*, 90
  
- 3Com 10 Mb/s Ethernet interface — ec *SunOS Reference Manual*, 1214
  
- 4.2BSD networking *Network Programming*, 191
- 4.3BSD networking *Network Programming*, 192
- 450 SMD Disk driver — xy *SunOS Reference Manual*, 1332 thru 1333
- 451 SMD Disk driver — xy *SunOS Reference Manual*, 1332 thru 1333
- 472 1/2-inch tape drive — xt *SunOS Reference Manual*, 1331
  
- 7053 SMD Disk driver — xd *SunOS Reference Manual*, 1329 thru 1330
  
- 80386 *Writing Device Drivers*, 25; *Pixrect Reference Manual*, see Sun386i
- 8530 SCC serial communications driver — zs *SunOS Reference Manual*, 1335 thru 1336
  
- 9 adb variable — count on last read *Debugging Tools*, 90

**Topic****Where to Look**

- a.out — assembler and link editor output  
**A1 level security**  
a64l () — convert long integer to base-64 ASCII  
**abbreviation**  
    aliases  
    directories  
    home directory  
    parent directory  
    working directory  
abort () — generate fault  
aborting a letter  
aborting an operation  
abort printer — lpc  
**Abort Sequence**  
.ab (abort) request  
abs () — integer absolute value  
absolute expressions  
absolute pathname  
absolute value — abs ()  
**accelerator**  
    alert button  
    caret  
    Close  
    Copy  
    Cut  
    erase  
    Find⇒  
    Find Selection⇒  
    for menu items  
    Front, Back  
    function key  
    Include File  
    introduction to  
    keyboard  
    Load File  
    menu  
    mouse button  
    Move  
    Move Caret to End  
    Move Caret to Start  
    Open  
    Paste  
    Resize  
    Set Directory  
    tutorial  
    Undo Last Edit  
accent marks  
accept () — connection on socket  
accept ()  
access ()
- SunOS Reference Manual*, 1339  
*Security Features Guide*, 11  
*SunOS Reference Manual*, 809  
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*Getting Started with SunOS*, 45  
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*SunOS Reference Manual*, 628  
*Network Programming*, 239; *System Services Overview*, 49  
*SunOS Reference Manual*, 629

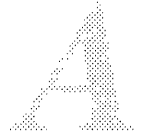
- access ( )
- access format for number registers
- accessibility of a file
- accessing command line arguments
- accessing environment variables
- accessing strings
- accessing the datagram provider, STREAMS
- accessing the system
- access permissions
- change
  - for files and directories
- access remote machines — *tip*
- access ( )
- access times of file, change — *utime ( )*
- access times of file, change — *utimes ( )*
- access to the network
- ac — login accounting
- account
- accounting, display login record — *ac*
- process accounting, display record — *sa*
  - process accounting, on or off — *accton*
  - process accounting, turn on or off — *acct ( )*
- accounting file — *acct*
- acct ( )
- acct ( )* — process accounting on or off
  - acct* — execution accounting file
- acct ( )
- accton* — processing accounting on or off
- acos ( )* — trigonometric arccosine
- acosh ( )* — inverse hyperbolic function
- action procedure for menu item
- actions
- in *yacc*
  - in *lex*
- activate\_vws ( )
- Activate View Surface (*SunCGI Extension*)
- C function
  - FORTRAN function
- active letter
- actors
- actresses
- Adaptec ST-506 disk driver — *sd*
- adb — debugger
- adb(1)
- adb address mapping
- adb command
- adb commands
- adb debug tool
- adb expressions
- adbgen — generate adb script
- adb scripts — *adbgen*
- adb variables
- 0 — last value printed
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- m — magic number
- s — stack segment size
- t — text segment size
- adb verbs
  - !
  - \$
  - /
  - :
  - =
  - >
  - ?
  - @
  - RETURN
- addbib — create bibliography
- addch ()
- addexportent () function
- adding
  - new users
- adding boards
  - configuring kernel
  - making entries in /dev
- adding modem
  - Hayes Smartmodem
  - Ven-Tel modem
- Adding or Deleting a Client
- adding printer
  - editing printcap
  - remote spooler
  - VPC-2200 Multibus Board
- adding STREAMS modules
- adding suffix rules in make
- adding terminal
- addition, in bc
- additional paging/swapping devices, specify — swapon
- addmntent () — get filesystem descriptor file entry
- add password file entry — putpwent ()
- address
  - binding
  - families
  - variable length
  - wildcard
- Address already in use
- addresses
  - convenient testing
  - DVMA virtual
  - finding physical
  - kernel space
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- address mapping in adb
- address resolution display and control — arp
- add route ioctl — SIOCADDR
- addstr ()
- adduser — add new user account
- adjacentscreens
- adjtime () — adjust time
- Adjust\_is\_pending\_delete default
- adjusting
  - center
  - flush left, ragged right
  - flush right, ragged left
  - justified
- adjusting a selection
- adjusting with MIDDLE mouse button
- admin — administer SCCS
- administering
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- administering a system
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  - developing procedures
- administering secure NFS
- administering uucp
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  - LOG
  - login entry
  - shell files
  - SQFILE
  - STST
  - TM
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- administrator awareness of security issues
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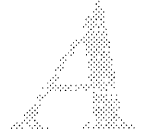
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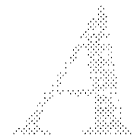
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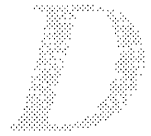
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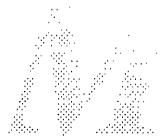
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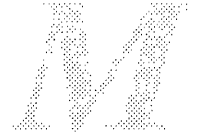
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SELN\_EXISTS

SELN\_FAILED

SELN\_FILE

SELN\_FIND

SELN\_FN\_AGAIN

SELN\_FN\_ERROR

SELN\_FN\_FIND

SELN\_FN\_FRONT

SELN\_FN\_GET

SELN\_FN\_OPEN

SELN\_FN\_PROPS

SELN\_FN\_PUT

SELN\_FN\_STOP

SELN\_FN\_UNDO

SELN\_IGNORE

SELN\_LEVEL\_ALL

SELN\_LEVEL\_FIRST

SELN\_LEVEL\_LINE

SELN\_LEVEL\_NEXT

SELN\_LEVEL\_PREVIOUS

SELN\_NON\_EXIST

SELN\_NONE

SELN\_PRIMARY

*seln\_\**

SELN\_REQ\_\*

SELN\_REQUEST

SELN\_SECONDARY

SELN\_SHELF

SELN\_SHELV

SELN\_SUCCESS

SELN\_TRACE\_ACQUIRE

SELN\_TRACE\_DONE

SELN\_TRACE\_HOLD\_FILE

SELN\_TRACE\_INFORM

SELN\_TRACE\_INQUIRE

SELN\_TRACE\_STOP

SELN\_TRACE\_YIELD

*Seln\_\**

SELN\_UNKNOWN

SELN\_UNRECOGNIZED

SELN\_UNSPECIFIED

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- x\_getlong ()
- x\_getpostn ()
- x\_inline ()
- x\_putbytes ()
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- xargs — construct and use initial arguments lists
- xcrypt () function
- xd — Xylogics SMD Disk driver
- xdecrypt () function
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  - array, variable length
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  - canonical standard
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  - data, optional
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  - double-precision floating-point integer
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- union
- unsigned integer
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- variable-length data
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- void
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- `xdr_bytes()`
- `xdr_chararr1()`
- `XDR_DECODE`
- `xdr_destroy()`
- `xdr_element()`
- `XDR_ENCODE`
- `XDR_FREE`
- `xdr_getpos()`
- `xdr_long()`
- `xdr_opaque()`
- `xdr_reference()`
- `xdr_setpos()`
- `xdr_string()`
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- `xdrmem_create()`
- `xdr()` networking functions
- `xdrrec_endofrecord()`
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- yp\_first () — Yellow Pages client interface *SunOS Reference Manual*, 1044
- yp\_get\_default\_domain () — Yellow Pages client interface *SunOS Reference Manual*, 1044
- yp\_master () — Yellow Pages client interface *SunOS Reference Manual*, 1044
- yp\_match () — Yellow Pages client interface *SunOS Reference Manual*, 1044
- yp\_next () — Yellow Pages client interface *SunOS Reference Manual*, 1044
- yp\_order () — Yellow Pages client interface *SunOS Reference Manual*, 1044
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## Notes

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