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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
+n	event designator	<i>SunOS User's Guide: Doing More</i> , 28
!:n	argument designator	<i>SunOS User's Guide: Doing More</i> , 29
!=	— not equal to operator — <code>cs</code>	<i>SunOS Reference Manual</i> , 103
!?str?	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
!string	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

.file, SCCS comma-file	<i>Programming Utilities and Libraries</i> , 94
- — integer subtraction operator — csh	<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
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:g event modifier	<i>SunOS User's Guide: Doing More</i> , 30
: modifiers — history substitution — csh	<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
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<= — less than or equal to operator — csh	<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 — csh	<i>SunOS Reference Manual</i> , 103
~= — globbing pattern match operator — csh	<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 — csh	<i>SunOS Reference Manual</i> , 103
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>! (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
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>>& 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
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? — filename wild card, any single characters	<i>SunOS Reference Manual</i> , 103
? adb verb	<i>Debugging Tools</i> , 96
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\! * — alias substitution, include command-line arguments — <i>cs</i> h	<i>SunOS Reference Manual</i> , 101
\! * (alias argument designator)	<i>SunOS User's Guide: Getting Started</i> , 86
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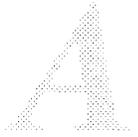
**Topic**

~A — mail tilde escape  
a.out  
a.out — assembler and link editor output  
a64l () — convert long integer to base-64 ASCII  
abbreviation  
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    current directory (.)  
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    executable (\*)  
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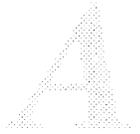
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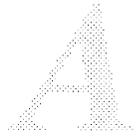
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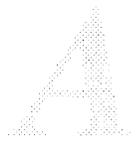


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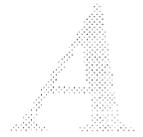
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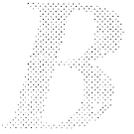
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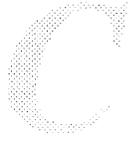


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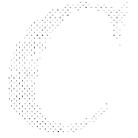
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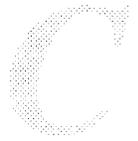
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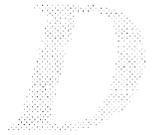
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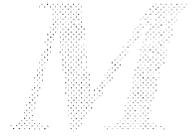
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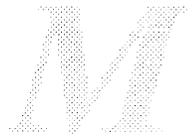




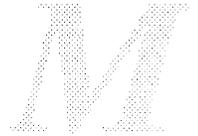
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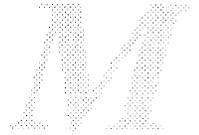
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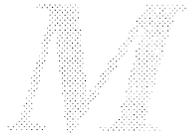


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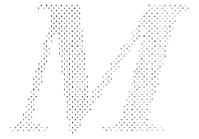
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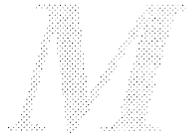
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- `cdc` — change delta commentary
- `comb` — combine deltas
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- `help` — get SCCS help
- `cdc` — display SCCS history

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- rmdel — remove delta
- sact — display SCCS file editing status
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wt.mp — login records  
wt.mp.fix — correct connect accounting records  
    date/time stamp  
WUF\_WMGR1  
wump — hunt the Wumpus game

*Programming Utilities and Libraries*, 276  
*SunOS Reference Manual*, 1705  
*SunOS Reference Manual*, 1941

*SunView System Programmer's Guide*, 163  
*SunOS Reference Manual*, 1791



**Topic**

-x C shell file inquiry — execute accessible  
 x (indicates executable file)  
 x (indicates searchable directory)  
 x.*file*

X/OPEN compatibility  
 x\_destroy ()  
 x\_getbytes ()  
 x\_getlong ()  
 x\_getpostn ()  
 x\_inline ()  
 x\_putbytes ()  
 x\_putlong ()  
 x\_setpostn ()  
 xargs — construct and use initial arguments lists  
 XBGR format  
 XBGR pixel format  
 xcrypt () — hex encryption  
 xd — Xylogics SMD Disk driver  
 xdecrypt () — hex decryption  
 XDR

advanced topics  
 array, fixed length  
 array, variable length  
 basic block size  
 block size  
 boolean  
 byte order  
 canonical standard  
 constant  
 data, optional  
 data types  
 discriminated union  
 double-precision floating-point integer  
 enumeration  
 fixed-length array  
 fixed-length opaque data  
 floating-point integer  
 futures  
 hyper integer  
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 integer, double-precision floating point  
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**Where to Look**

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*SunOS User's Guide: Getting Started*, 39  
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- opaque data, fixed length
- opaque data, variable length
- operation directions
- optional data
- portable data
- protocol specification
- record (TCP/IP) streams
- RFC
- RFC status
- standard I/O streams
- stream access
- stream implementation
- string
- structure
- Sun technical notes
- system routines
- typedef
- union
- unsigned integer
- variable-length array
- variable-length data
- variable-length opaque data
- void
- `xdr_accepted_reply()` — XDR routines for RPC
- `xdr_array()`
- `xdr_authunix_parms()` — XDR routines for RPC
- `xdr_bool()` function
- `xdr_bytes()`
- `xdr_callhdr()` — XDR routines for RPC
- `xdr_callmsg()` — XDR routines for RPC
- `xdr_char()` function
- `xdr_chararr1()`
- `XDR_DECODE`
- `xdr_destroy()`
- `xdr_double()` function
- `xdr_element()`
- `XDR_ENCODE`
- `xdr_enum()` function
- `xdr_float()` function
- `XDR_FREE`
- `xdr_free()` function
- `xdr_getpos()`
- `xdr_inline()` — XDR stream management
- `xdr_int()` function
- `xdr_long()`
- `xdr_opaque()`
- `xdr_opaque_auth()` — XDR routines for RPC
- `xdr_pmap()` — RPC bind servie
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- `xdr_pointer()` — describe format of XDR data
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xdr_u_long () function	<i>SunOS Reference Manual</i> , 1264
xdr_u_short () function	<i>SunOS Reference Manual</i> , 1264
xdr_union () — describe format of XDR data	<i>SunOS Reference Manual</i> , 1259
xdr_vector () — describe format of XDR data	<i>SunOS Reference Manual</i> , 1259
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\x (get extra line space) function		<i>Using nroff and troff</i> , 44
xget	— receive secret mail	<i>SunOS Reference Manual</i> , 671
xit	mail command	<i>SunOS Reference Manual</i> , 310
~x	— mail tilde escape	<i>SunOS Reference Manual</i> , 308
xopen	— /usr/group X/Open version 2	<i>SunOS Reference Manual</i> , 1825
xprt_register()	— register servers	<i>SunOS Reference Manual</i> , 1132
xprt_unregister()	— register servers	<i>SunOS Reference Manual</i> , 1132
xsend	— send secret mail	<i>SunOS Reference Manual</i> , 671
xstr(1)		<i>Programming Utilities and Libraries</i> , 14
xstr	— extract strings from C code	<i>SunOS Reference Manual</i> , 672
xtab	— exported file system table	<i>SunOS Reference Manual</i> , 1566
xt	— Xylogics 472 1/2-inch tape drive	<i>SunOS Reference Manual</i> , 1514
xtom()	— hexadecimal string to multiple precision	<i>SunOS Reference Manual</i> , 1079
xy	— Xylogics SMD Disk driver	<i>SunOS Reference Manual</i> , 1515 thru 1516
Xylogics 472 1/2-inch tape drive	— xt	<i>SunOS Reference Manual</i> , 1514
Xylogics SMD Disk driver	— xd	<i>SunOS Reference Manual</i> , 1512 thru 1513, 1515 thru 1516

## Topic

y0 () — Bessel function  
 y1 () — Bessel function  
 yacc language tags file — `ctags`  
     “reduce/reduce” conflicts  
     actions  
     basic specifications  
     conflicts  
     disambiguating rules  
     left association  
     lexical analysis  
     precedence  
     yacc  
     right association  
     shift/reduce conflicts  
 yacc associativity  
     %left  
     %nonassoc  
     %right  
 yacc — parser generator  
 Yellow Pages  
     replaced with Network Information Service (NIS)  
 yes — be repetitively affirmative  
 yn () — Bessel function  
 You must be root to use mount  
 YP  
     change login password in — `yppasswd`  
     make database — `ypinit`  
     make ndbm file — `makedbm`  
     print values from database — `ypcat`  
     rebuild database — `ypmake`  
     replaced with Network Information Service (NIS)  
 yp\_all () — NIS client interface  
 yp\_bind — NIS client interface  
 yp\_first () — NIS client interface  
 yp\_get\_default\_domain — NIS client interface  
 yp\_master () — NIS client interface  
 yp\_match () — NIS client interface  
 yp\_next () — NIS client interface  
 yp\_order () — NIS client interface  
 yp\_unbind () — NIS client interface  
 yp\_update () — change NIS information  
 ypaliases  
     ypaliases — NIS aliases for sendmail  
 ypbatchupd — NIS batch update daemon  
 ypbind  
     and subnetting  
 ypcat command

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*SunOS Reference Manual*, 1304  
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*SunOS Reference Manual*, 117  
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*SunOS Reference Manual*, 678  
*SunOS Reference Manual*, 2157  
*SunOS Reference Manual*, 1985  
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ypcat — print values from NIS database  
YP client interface  
yperr\_string() — NIS client interface  
ypfiles — NIS database and directory  
yp() function  
ypgroup— NIS group file  
ypinit command  
ypinit — make NIS database  
ypmake command  
ypmake — rebuild NIS database  
ypmatch — match NIS keys  
yppasswd command  
  
yppasswd() — update NIS password entry  
yppasswd — change login password in NIS  
yppasswdd command  
yppoll — NIS version inquiry  
ypprintcap— NIS printer capability database  
ypprot\_err() — NIS client interface  
yppush command  
  
ypserv  
    fixing crashes of  
ypset — direct ypbind to a server  
ypsync command  
ypupdated daemon  
ypupdated daemon  
ypwhich command  
    resolving problems with  
ypwhich — who is NIS server  
ypxfr command  
    using with crontab  
    and shell scripts  
ypxfrd — NIS server process  
yr (last two digits of year) number register  
yppasswdd — NIS password server  
  
*SunOS Reference Manual, 676*  
*SunOS Reference Manual, 1267*  
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*System and Network Administration, 488*  
*SunOS Reference Manual, 2162*  
*Using nroff and troff, 99*  
*SunOS Reference Manual, 2159*

# Z

## **Topic**

`-z` C shell file inquiry — zero length  
`\z` (zero motion) function  
`z` *file*  
`zcat` — extract compressed files  
`zdump` command  
zero-width character  
zero byte strings  
    `bzero()`  
zero byte strings — `bzero()`  
zero motion function  
`zic` command  
`z` mail command  
`.z` (name of current diversion) number register  
zones  
Zoom, in Frame menu  
`zs` — zilog 8530 SCC serial communications driver

## **Where to Look**

*SunOS Reference Manual*, 104  
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*Programming Utilities and Libraries*, 107  
*SunOS Reference Manual*, 85  
*SunOS Reference Manual*, 2169  
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*C Programmer's Guide*, 61  
*SunOS Reference Manual*, 916  
*Using nroff and troff*, 115  
*SunOS Reference Manual*, 2170  
*SunOS Reference Manual*, 313  
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*SunView User's Guide*, 37, 124  
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## Notes

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Notes

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