



# Global Index



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# Special Characters

## Topic

## Where to Look

!	history substitution — <i>cs</i> logical negation operator — <i>cs</i>	<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 — <i>cs</i>	<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 — <i>cs</i>	<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 — <i>cs</i>	<i>SunOS Reference Manual</i> , 101
\$?	— variable set inquiry — <i>cs</i>	<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 — <i>cs</i> job to foreground/background — <i>cs</i> modular division operator — <i>cs</i>	<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 — <i>cs</i> run command in background	<i>SunOS Reference Manual</i> , 101 <i>SunOS Reference Manual</i> , 97
&&	execute on success — <i>cs</i> logical AND operator — <i>cs</i>	<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 — <i>cs</i> group operators — <i>cs</i>	<i>SunOS Reference Manual</i> , 97 <i>SunOS Reference Manual</i> , 101
*	filename wild card, zero or more of any characters integer multiplication operator — <i>cs</i>	<i>SunOS Reference Manual</i> , 101 <i>SunOS Reference Manual</i> , 101
+	— integer addition operator — <i>cs</i>	<i>SunOS Reference Manual</i> , 101

- — 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
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  - SunOS Reference Manual*, 102
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append standard output	<i>SunOS Reference Manual</i> , 99
bitwise shift right — <i>cs</i> h	<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 — <i>cs</i> h	<i>SunOS Reference Manual</i> , 99
\ (unpaddable space) function	<i>Using nroff and troff</i> , 136
^	
bitwise XOR operator — <i>cs</i> h	<i>SunOS Reference Manual</i> , 101
quick substitution — <i>cs</i> h	<i>SunOS Reference Manual</i> , 99
\^ (thin space) function	<i>Using nroff and troff</i> , 136
? command in mail	<i>Mail and Messages</i> , 53
^ and stty	<i>Setting Up Your SunOS Environment</i> , 6
_ in text	<i>SunView 1 Beginner's Guide</i> , 103
_toupper () — convert character to upper-case, System V	<i>SunOS Reference Manual</i> , 1134
` — 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
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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
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logical OR operator — <i>cs</i> h	<i>SunOS Reference Manual</i> , 101
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with get_selection command	<i>SunView 1 Beginner's Guide</i> , 115
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filename substitution, home directory	<i>SunOS Reference Manual</i> , 101
one's complement operator — <i>cs</i> h	<i>SunOS Reference Manual</i> , 101
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~< — mail tilde escape	<i>SunOS Reference Manual</i> , 295
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~A — mail tilde escape	<i>SunOS Reference Manual</i> , 294
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~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

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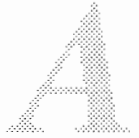
- ~h — mail tilde escape *SunOS Reference Manual*, 295
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- ~m — mail tilde escape *SunOS Reference Manual*, 295
- ~p — mail tilde escape *SunOS Reference Manual*, 295
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- ~x — mail tilde escape *SunOS Reference Manual*, 295
  
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- 0rinf *Sun-4 Assembly Language Reference*, 5
- Ornan *Sun-4 Assembly Language Reference*, 5
  
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  - tm — tapemaster *SunOS Reference Manual*, 1318
  - xt — Xylogics 472 *SunOS Reference Manual*, 1331
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  - 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  
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   erase  
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   Move  
   Move Caret to End  
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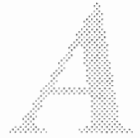
- access ( )
- access format for number registers
- accessibility of a file
- accessing command line arguments
- accessing environment variables
- accessing strings
- accessing the datagram provider, STREAMS
- accessing the system
- access permissions
- change
  - for files and directories
- access remote machines — `tip`
- `access ( )`
- access times of file, change — `utime ( )`
- access times of file, change — `utimes ( )`
- access to the network
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- accounting, display login record — `ac`
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  - process accounting, on or off — `accton`
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- Activate View Surface (*SunCGI Extension*)
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- `adb` command
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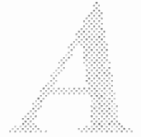
- m — magic number
- s — stack segment size
- t — text segment size
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  - /
  - :
  - =
  - >
  - ?
  - @
  - RETURN
- addbib — create bibliography
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  - Ven-Tel modem
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  - flush right, ragged left
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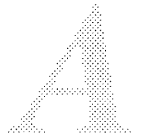
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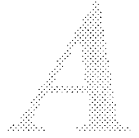
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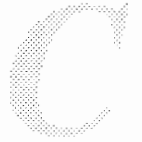


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<ul style="list-style-type: none"> <li>\k (mark horizontal position) function</li> <li>kadb — kernel debugger</li> <li>kadb — the kernel debugger <ul style="list-style-type: none"> <li>abort to monitor</li> <li>and virtual spaces</li> <li>limitation</li> </ul> </li> <li>KBD_DONE</li> <li>KBD_REQUEST</li> <li>KBD_USE</li> <li>kb — Sun keyboard</li> <li>kb — Sun keyboard STREAMS module</li> <li>.KEEP_STATE — special target in make</li> <li>keeping incoming mail</li> <li>keeping root secure</li> <li>keeping systems secure</li> <li>keep mail variable</li> <li>keepsave mail variable</li> <li>kernel <ul style="list-style-type: none"> <li>architecture types</li> <li>basic functions</li> <li>vmunix</li> <li>buffer cache</li> <li>config file</li> <li>configuration</li> <li>configuring to add new boards</li> <li>data structures</li> <li>definition</li> <li>device driver</li> <li>interface</li> <li>interface points</li> <li>kernel/driver interface</li> <li>memory context</li> <li>page</li> <li>panics</li> <li>process</li> <li>reconfiguring</li> <li>run-time data structures</li> <li>space</li> <li>STREAMS functions</li> <li>STREAMS structures</li> </ul> </li> <li>kernel and local lock manager protocol</li> <li>kernel and security auditing</li> <li>KERNELBASE</li> <li>kernel configuring</li> <li>Kernel Reconfiguration for Servers</li> <li>Kernel Reconfiguration for Standalone Systems</li> <li>kernel symbol table, get entries from — <code>kvm_nlist()</code></li> <li>kernel tuning <ul style="list-style-type: none"> <li><code>win_disable_shared_locking</code></li> <li><code>winlistcharsmax</code></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li><i>Using nroff and troff</i>, 141</li> <li><i>SunOS Reference Manual</i>, 1653</li> <li><i>Writing Device Drivers</i>, 102</li> <li><i>Writing Device Drivers</i>, 102</li> <li><i>Writing Device Drivers</i>, 102</li> <li><i>Writing Device Drivers</i>, 102</li> <li><i>SunView 1 Programmer's Guide</i>, 88</li> <li><i>SunView 1 Programmer's Guide</i>, 88; <i>SunView 1 System Programmer's Guide</i>, 58</li> <li><i>SunView 1 Programmer's Guide</i>, 88</li> <li><i>SunOS Reference Manual</i></li> <li><i>SunOS Reference Manual</i>, 1233</li> <li><i>Programming Utilities and Libraries</i>, 131</li> <li><i>Mail and Messages</i>, 72</li> <li><i>Security Features Guide</i>, 57</li> <li><i>Security Features Guide</i>, 57</li> <li><i>Mail and Messages</i>, 88; <i>SunOS Reference Manual</i>, 302</li> <li><i>Mail and Messages</i>, 48, 49, 88; <i>SunOS Reference Manual</i>, 302</li> <li><i>System and Network Administration</i>, 27</li> <li><i>System and Network Administration</i>, 13</li> <li><i>System and Network Administration</i>, 40 thru 44</li> <li><i>Writing Device Drivers</i>, 5</li> <li><i>Writing Device Drivers</i>, 141</li> <li><i>Writing Device Drivers</i>, 139</li> <li><i>System and Network Administration</i>, 244</li> <li><i>Writing Device Drivers</i>, 48</li> <li><i>System and Network Administration</i>, 29</li> <li><i>System and Network Administration</i>, 28</li> <li><i>Writing Device Drivers</i>, 48</li> <li><i>Writing Device Drivers</i>, 115</li> <li><i>Writing Device Drivers</i>, 56</li> <li><i>Writing Device Drivers</i>, 41</li> <li><i>System and Network Administration</i>, 30</li> <li><i>Writing Device Drivers</i>, 104</li> <li><i>System and Network Administration</i>, 30</li> <li><i>System and Network Administration</i>, 143</li> <li><i>Writing Device Drivers</i>, 47</li> <li><i>Writing Device Drivers</i>, 63</li> <li><i>Writing Device Drivers</i>, 180</li> <li><i>Writing Device Drivers</i>, 317</li> <li><i>SunOS Reference Manual</i>, 1111</li> <li><i>Security Features Guide</i>, 85</li> <li><i>Writing Device Drivers</i>, 63</li> <li><i>System and Network Administration</i>, 393 thru 400</li> <li><i>Installing the SunOS™</i>, 168</li> <li><i>Installing the SunOS™</i>, 167</li> <li><i>SunOS Reference Manual</i>, 900</li> <li><i>SunView 1 System Programmer's Guide</i>, 61</li> <li><i>SunView 1 System Programmer's Guide</i>, 62</li> <li><i>SunView 1 System Programmer's Guide</i>, 62</li> </ul>
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    - .sp — space
    - .ss — set space size
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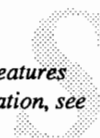


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Notes