



219 captures

6 Mar 2001 - 1 Apr 2017

[Innovating@Sun ▾](#)
[Community Voices ▾](#)
[How to Buy ▾](#)
[Log In ▾](#)

[Home](#) > [BigAdmin](#) >

# BigAdmin System Administration Portal

## Shell Commands

[Submit Link or Content to BigAdmin | Tag](#)
 [ShellCmd Categories](#)

### Additional Resources

1.  [All Solaris Commands \\*](#)
2.  [Alphabetical Directory of Linux Commands \\*](#)
3.  [Awk, Nawk and GNU Awk Cheat Sheet \\*](#)
4.  [Comparison of Shell commands \(PDF\) \\*](#)
5.  [coolcommands.com \\*](#)
6.  [DOS to UNIX command translation \\*](#)
7.  [Famous Awk One-Liners Explained, Part I \\*](#)
8.  [Famous Awk One-Liners Explained, Part II \\*](#)
9.  [Man Pages: System Administration Commands \(Solaris 10\)](#)
10.  [Man Pages: System Administration Commands \(Solaris 9\)](#)
11.  [Man Pages: User Commands \(Solaris 10\)](#)
12.  [Man Pages: User Commands \(Solaris 9\)](#)
13.  [Tips on good shell programming practices \\*](#)
14.  [Top 10 Best Cheat Sheets and Tutorials for Linux / UNIX Commands \\*](#)
15.  [Universal Command Guide for Operating Systems \\*](#)
16.  [Unix 'find command' helper \\*](#)
17.  [Useful Solaris Commands \(Blog\) \\*](#)

### Debugging

18.  [cat -v -t -e \[file\]  
/\\* Show non-printing characters \\*/](#)
19.  [dumpadm -d swap  
/\\* Configure swap device as dump device \\*/](#)
20.  [ldd -l <libname without 'lib'>  
/\\* Check if you have a particular library \\*/](#)
21.  [truss -f -p <pid of a shell>  
/\\* Using multiple windows, this can be used to trace setuid/setgid programs \\*/](#)
22.  [truss executable  
/\\* Trace doing of given command \( useful debugging \) \\*/](#)



219 captures

6 Mar 2001 - 1 Apr 2017

- ```

21. [?] /usr/bin/freetat
    /* Command to display drives statistics */

25. [?] du -ad /var | sort -nr
    /* Report the disk used in /var in reverse order */

26. [?] du -k .
    /* Report disk usage in Kilobytes */

27. [?] du -sk * | sort -nr | head
    /* Shows the top ten largest files/directories */

28. [?] du -sk *|sort -k1,1n
    /* Reports total disk space used in Kilobytes in present directory */

29. [?] du -sk .
    /* Report total disk usage in Kilobytes */

30. [?] fdformat -d -U
    /* Format diskette */

31. [?] mount -F hsfs -o ro `lofiadm -a /export/temp/software.iso` /mnt
    /* Mount an ISO Image */

32. [?] newfs -Nv /dev/rdsck/c0t0d0s1
    /* To view the superblocks available */

33. [?] One-liner to copy a partition table
    /* prtvtoc /dev/dsk/c1t2d0s2 | fmthard -s - /dev/rdsck/c1t3d0s2 */

34. [?] prtvtoc /dev/rdsck/c0t0d0s2
    /* Disk geometry and partitioning info */

35. [?] prtvtoc /dev/rdsck/c0t0d0s2 | fmthard -s - /dev/rdsck/c0t1d0s2
    /* Copy partition table from one disk to another */

36. [?] quot -af
    /* How much space is used by users in kilobytes */

37. [?] volrmmount -i floppy
    /* Mount a floppy or other media easily by its nickname. */

```



## Driver Parameters

- ```

38. [?] ndd /dev/ip ip_forwarding
    /* Show the ip_forwarding variable in the kernel */

39. [?] ndd /dev/ip ip_forwarding 1
    /* Set the ip_forwarding variable in the kernel */

40. [?] ndd /dev/ip \?
    /* Show all IP variables set in the kernel */

```



## File Manipulation

- ```

41. [?] dos2unix | -ascii <filename>
    /* Converts DOS file formats to Unix */

42. [?] fold -w 180
    /* To break lines to have maximum char */

43. [?] split [-linecount] [file]
    /* Split files into pieces */

44. [?] [vi] : %s/existing/new/g
    /* Search and Replace text in vi */

45. [?] [vi] :set list
    /* Show non-printing characters in vi */

46. [?] [vi] :set nu
    /* Set line numbers in vi */

47. [?] [vi] :set ts=[num]
    /* Set tab stops in vi */

```





## 219 captures

/\* Syncs File Systems fast \*/

49. awk 'END {print NR}' file\_name  
/\* Display the Number of lines in a file \*/
50. cat /dev/null > filename  
/\* Zero's out the file without breaking pipe \*/
51. cksum [filename]  
/\* View the checksum value for the given file \*/
52. dd if=/dev/rdsk/... of=/dev/rdsk/... bs=4096  
/\* Make a mirror image of your boot disk \*/
53. df -k | grep dg| awk '{print \$6}' |xargs -n 1 umount  
/\* Unmount all file systems in disk group dg \*/
54. fsck -F ufs -o b=97472 /dev/rdsk/c0t0d0s0  
/\* Check and repair a UFS filesystem on c0t0d0s0, using an alternate superblock \*/
55. fsck -F ufs -y /dev/rdsk/c0t0d0s0  
/\* Check a UFS filesystem on c0t0d0s0, repair any problems without prompting. \*/
56. fsck -F ufs /dev/rdsk/c0t0d0s0  
/\* Check a UFS filesystem on c0t0d0s0 \*/
57. gzip -d -c tarball.tgz | (cd /[dir];tar xf - ) &  
/\* Unpacking tarballs to diff location \*/
58. gzip -dc file1.tar.gz | tar xf -  
/\* Unpack .tar.gz files in place \*/
59. ln [-fhns] <source file> <destination file>  
/\* Creating hard links and soft links \*/
60. ls -al | awk '\$3 == "oracle" || \$3 == "root" {print \$9}'  
/\* List all file names by testing owner \*/
61. ls -l | sort +4n  
/\* List files by size \*/
62. ls -la | awk '{ print \$5," ",\$9 }' | sort -rn  
/\* File sizes of current directory \*/
63. ls -IR | awk '{total +=\$5};END {print "Total size: " total/1024/1024 "MB"}'  
/\* Recursive directory size calculations in MB \*/
64. mkisofs -l -L -r -o [image-name].iso [directory]  
/\* Create an ISO image of a directory \*/
65. mount -F ufs -o rw,remount /  
/\* Used to remount root to make it writeable \*/
66. mount -o remount,logging /spare  
/\* Re-mount the ro file system rw and turn on ufs logging \*/
67. mount DOS fdisk partition from Solaris  
/\* mount -f pcfs /dev/dsk/c0d0p1 /export/dos \*/
68. mv [filename]{,.new\_suffix}  
/\* Renaming file \*/
69. pax -rw . /newdir  
/\* Efficient alternative for copying directories \*/
70. prtvtoc /dev/rdsk/c0t0d0s2 | fmthard -s - /dev/rdsk/c0t1d0s2  
/\* Cloning Partitiontables \*/
71. rpm -q --queryformat '%{INSTALLPREFIX}\n' [packagename]  
/\* [Linux] Locate binaries \*/
72. tar cf - . | (cd /newdir ; tar xf -)  
/\* Recursively copy files and their permissions \*/
73. tar cvf filename.tar  
/\* Create a tape (tar) archive \*/
74. tar xvf filename.tar  
/\* Extract a tape (tar) archive \*/
75. X=\$(wc -l < filename); echo \$X  
/\* Count number of lines in a file into a variable (ksh) \*/
76. zcat <patch\_file.tar.Z | tar xvf -  
/\* Extract the patch\_file that is a compressed tar file \*/
77. zcat [cpio file] | cpio -itmv  
/\* Show the contents of a compressed cpio \*/





219 captures

6 Mar 2001 - 1 Apr 2017

80. get filename.suffix |"tar xf -"  
/\* Undocumented Feature of FTP \*/
81. Move any file(s) without actually touching them  
/\* ssh cd /some/directory \&\& tar cf - | ssh cd /some/direstory \&\& tar xvf - \*/
82. put "| tar cf - ." filename.tar  
/\* Undocumented Feature of FTP \*/
83. sendport  
/\* FTP command for transferring large numbers of files within the same control session \*/



## General

84. /bin/printf '%d\n' '0x<hex>'  
/\* Converts hexadecimal number to decimal. \*/
85. /usr/bin/catman -w  
/\* Create windex databases for man page directories \*/
86. echo 'obase=16;255' | bc  
/\* Simple way to convert decimal to hex \*/
87. FQ\_FILENAME=<fully\_qualified\_file\_name>; echo \${FQ\_FILENAME%/\*}  
/\* Extract directory from fully-qualified file name. \*/
88. mailx -H -u <username>  
/\* List out mail headers for specified user \*/
89. ps -ef | grep -i \$@  
/\* Access common commands quicker \*/
90. set filec  
/\* Set file-completion for csh \*/
91. uuencode [filename] [filename] | mailx -s "Subject" [user to mail]  
/\* Send files as attachments \*/
92. xauth -f /home/\${LOGNAME} extract - \${DISPLAY} | xauth merge -  
/\* Allow root to xdisplay after su \*/



## Hardware

93. cfgadm  
/\* Verify reconfigurable hardware resources \*/
94. m64config -depth 8|24  
/\* Sets the screen depth of your M64 graphics accelerator \*/
95. m64config -prconf  
/\* Print M64 hardware configuration \*/
96. m64config -res 'video\_mode'  
/\* Change the resolution of your M64 graphics accelerator \*/
97. prtpcl -v | grep sync-speed  
/\* Discover SCSI sync speed \*/



## Kernel

98. /usr/sbin/modinfo  
/\* Display kernel module information \*/
99. /usr/sbin/modload <module>  
/\* Load a kernel module \*/
100. /usr/sbin/modunload -i <module id>  
/\* Unload a kernel module \*/
101. /usr/sbin/sysdef  
/\* Show system kernel tunable details \*/
102. nm -x /dev/kvms | grep ORI | more



kernel parameters \*/

-f [driver name]

Driver to reread its .conf file without reloading the driver \*/

6 Mar 2001 - 1 Apr 2017

## Memory

104. [?](#) pagesize -a  
/\* Available page sizes for Solaris 9 \*/
105. [?](#) prtconf | grep Mem  
/\* Display Memory Size of the local machine. \*/

## Network Information

106. [?](#) arp -a  
/\* Ethernet address arp table \*/
107. [?](#) arp -d myhost  
/\* Delete an ethernet address arp table entry \*/
108. [?](#) lsof -iTCP@10.20.2.9  
/\* Display open files for internet address \*/
109. [?](#) named-xfer -z qantas.com.au -f /tmp/allip  
/\* Get All IP Addresses On A DNS Server \*/
110. [?](#) ndd /dev/arp arp\_cache\_report  
/\* Prints ARP table in cache with IP and MAC address \*/
111. [?](#) netstat -a | grep EST | wc -l  
/\* Displays number active established connections to the localhost \*/
112. [?](#) netstat -a | more  
/\* Show the state of all the sockets on a machine \*/
113. [?](#) netstat -i  
/\* Show the state of the interfaces used for TCP/IP traffic \*/
114. [?](#) netstat -k hme0  
/\* Undocumented netstat command \*/
115. [?](#) netstat -np  
/\* Similar to arp -a without name resolution \*/
116. [?](#) netstat -r  
/\* Show the state of the network routing table for TCP/IP traffic \*/
117. [?](#) netstat -rn  
/\* Displays routing information but bypasses hostname lookup. \*/
118. [?](#) snoop -S -ta [machine]  
/\* Snoop for network packets and get size and time stamp entries. \*/
119. [?](#) traceroute <ipaddress>  
/\* Follow the route to the ipaddress \*/

## Network Tuning

120. [?](#) /sbin/ifconfig hme0:1 inet 10.210.xx.xxx netmask 255.255.0.0 broadcast 10.210.xxx.xxx  
/\* Virtual Interfaces \*/
121. [?](#) /sbin/ifconfig hme0:1 up  
/\* Bring virtual interface up \*/
122. [?](#) /usr/sbin/ndd -set /dev/hme adv\_100fdx\_cap 1  
/\* Nailling to 100Mbps \*/
123. [?](#) ifconfig eth0 10.1.1.1 netmask 255.255.255.255  
/\* Add an Interface \*/
124. [?](#) ifconfig eth0 mtu 1500  
/\* Change MTU of interface \*/
125. [?](#) ndd -set /dev/ip ip\_addrs\_per\_if 1-8192  
/\* To set more than 256 virtual ip addresses. \*/
126. [?](#) ndd -set /dev/tcp tcp\_recv\_hiwat 65535  
/\* Increase TCP-receivebuffers on Sol2.5.1 svystems with 100BaseTx \*/



## Processes

128. [? /usr/proc/bin/ptree <pid>](#)  
/\* Print the parent/child process 'tree' of a process \*/
129. [? /usr/proc/bin/pwdx <pid>](#)  
/\* Print the working directory of a process \*/
130. [? /usr/ucb/ps -aux | more](#)  
/\* Displays CPU % usage for each process in ascending order \*/
131. [? /usr/ucb/ps -auxww | grep <process name>](#)  
/\* Gives the full listing of the process (long listing) \*/
132. [? coreadm -i core.%f.%p](#)  
/\* Append program name and process id to core file names \*/
133. [? fuser -uc /var](#)  
/\* Processes that are running from /var \*/
134. [? ipcs](#)  
/\* Report inter-process communication facilities status \*/
135. [? kill -HUP `ps -ef | grep \[p\]rocess | awk '{print \\$2}'`](#)  
/\* HUP any related process in one step \*/
136. [? lsof -i TCP:25](#)  
/\* Mapping port with process \*/
137. [? pfiles <pid>](#)  
/\* Shows processes' current open files \*/
138. [? pkill -n <name>](#)  
/\* Kill a process by name \*/
139. [? prstat -a](#)  
/\* An alternative for top command \*/
140. [? ps -edf -o pcpu,pid,user,args](#)  
/\* Nicely formatted 'ps' \*/
141. [? ps -ef | grep -i <string> | awk '{ print \\$2 }'](#)  
/\* Creates list of running PID by <string> \*/
142. [? ps -ef | grep -i <string> | awk '{ print \\$2 }'](#)  
/\* Creates list of running PID by \*/
143. [? ps -ef | grep <process name> | grep -v grep | cut -c 10-15 | xargs kill -9](#)  
/\* Find and kill all instances of a given process \*/
144. [? ps -ef | more](#)  
/\* Show all processes running \*/
145. [? ps -ef|grep -v "0:00"|more](#)  
/\* Gives you a list of any process with CPU time more than 0:00 \*/
146. [? ps -eo pid,args](#)  
/\* List processes in simplified format \*/
147. [? ps -fu oracle|grep pmon](#)  
/\* See which instances of Oracle are running \*/
148. [? top -b 1](#)  
/\* Returns the process utilizing the most cpu and quits \*/

## Resource Management

149. [? /usr/bin/ldd \[filename\]](#)  
/\* List the dynamic dependencies of executable files \*/
150. [? /usr/proc/bin/pmap pid](#)  
/\* Report address space map a process occupies \*/

## Route Configuration

151. [? route add net 128.50.0.0 128.50.1.6 1](#)

**219 captures**

6 Mar 2001 - 1 Apr 2017

152. route delete [route] /\* Delete a route from the routing table \*/
154. route flush /\* Flush the routing table, which will remove all entries \*/
155. route get [hostname] /\* Which interface will be used to contact hostname \*/
156. route monitor /\* Monitor routing table lookup misses and changes \*/

**Searching Items**

157. cat <filename> | awk '{if (substr(\$1,1,1) == '#') print \$0 }' /\* Print all lines in a file beginning with a specific character \*/
158. egrep "patternA|patternB" <filename> /\* Search for multiple patterns within the same file \*/
159. find <start\_path> -name "<file\_name>" -exec rm -rf {} \; /\* Recursively finds files by name and automatically removes them \*/
160. find . -type f -print | xargs grep -i [PATTERN] /\* Recursive grep on files \*/
161. find . ! -mtime -<days> | /usr/bin/xargs rm -rf /\* Finds and removes files older than <days> specified \*/
162. find . -exec egrep -li "str" {} \; /\* Find a string in files starting cwd \*/
163. find . -mtime -1 -type f /\* Find recently modified files \*/
164. find . -type f -exec grep "<sub-string>" {} \; -print /\* Find files (and content) containing <sub-string> within directory tree \*/
165. find . -type f -exec grep -l "<sub-string>" {} \; /\* Find files (and content) containing <sub-string> within directory tree \*/
166. find ./ ! -type f -exec ls -l {} \; | grep -v '^|[^p|s|-]' | grep -v 'total' | wc -l /\* Find number of directories under the current directory \*/
167. find / -fstype nfs -prune -o fstype autofs -prune -o -name filename -print /\* find without traversing NFS mounted file systems \*/
168. find / -mtime <# of days> /\* Find files modified during the past # of days \*/
169. find / -perm -2 -a ! -type l /\* Find files writable by 'others' \*/
170. find / -type f | xargs ls -s | sort -rn | more /\* List files taking up the most system space \*/
171. find / -user <username> /\* Find all files owned by <username> \*/
172. find / -xdev -type f -ls|sort -nr -k 7,7 /\* Find largest files in a file system \*/
173. find / | grep [file mask] /\* Fast way to search for files \*/
174. find /proc/\*/\* -links 0 -type f -size +2000 -ls /\* Find large files moved or deleted and held open by a process \*/
175. grep <full\_path\_to\_filename> /var/sadm/install/contents| awk '{ print \$1 '' \$10 }' /\* Find which package contains a particular file \*/
176. ls -IR | grep <sub\_string> /\* Fast alternative to find. \*/
177. pkgchk -l -p /absolute/path/todir /\* Which package does this file belong to? \*/

**Security**

178. crypt <abc.cr> abc && rm abc.cr /\* Decrypting a file that has been encrypted \*/



abc.cr && rm abc  
ption with crypt /\*  
e go away >/etc/nologin  
/\* Stops User Session  
219 captures  
6 Mar 2001 - 1 Apr 2017

<http://www.sun.com:80/bigadmin/shellme/>

181. ? find / -perm -0777 -type d -ls  
/\* Find all your writable directories \*/
182. ? find / -type f -perm -2000 -print  
/\* Find all SGID files \*/
183. ? find / -type f -perm -4000 -print  
/\* find all SUID files \*/
184. ? getpwenc [encryption scheme] password  
/\* Generate passwords for LDAP Using 'getpwenc' Utility \*/
185. ? trap 'exit 0' 1 2 3 9 15  
/\* Trap specific signals and exit \*/
186. ? vi -x [filename]  
/\* Encrypt a file with vi editor \*/

▲

## Setting Term Options

187. ? stty erase ^?  
/\* Set the delete key to delete a character \*/
188. ? stty erase ^H  
/\* Set the backspace to delete a character \*/
189. ? stty sane  
/\* Reset terminal after viewing a binary file. \*/
190. ? tput rmacs  
/\* Reset to standard char set \*/

▲

## Snoop

191. ? snoop -d pclex0  
/\* Watch all the packets on a device \*/
192. ? snoop -i /tmp/mylog -o /tmp/newlog host1  
/\* Filter out all the host1 packets and write them to a new logfile \*/
193. ? snoop -i /tmp/mylog -v -p101  
/\* Show verbose info on packet number 101 in the logfile \*/
194. ? snoop -i /tmp/mylog host1 host2  
/\* View packets from a logfile between hosts1 and host2 \*/
195. ? snoop -o /tmp/mylog pclex0  
/\* Save all the packets from a device to a logfile \*/
196. ? snoop -s 120  
/\* Return the first 120 bytes in the packet header \*/
197. ? snoop -v arp  
/\* Capture arp broadcasts on your network \*/
198. ? snoop port [port-number]  
/\* Monitor particular port for traffic \*/

▲

## Swap Files

199. ? mkfile -nv 10m /export/disk1/myswap  
/\* Makes an empty 10 Megabyte swapfile in /export/disk \*/
200. ? mkfile -v 10m /export/disk1/myswap  
/\* Makes a 10 Megabyte swapfile in /export/disk \*/

▲



## 219 captures

6 Mar 2001 - 1 Apr 2017

- ```

202. [?] swap -d /dev/disk0s3
/* Delete a swap device */

203. [?] swap -l
/* List the current swap devices */

204. [?] swap -s
/* List the amount of swap space available */

```



## System Configuration

- ```

205. [?] /usr/sbin/eeprom auto-boot? false
/* Changes eeprom autoboot? setting without going to Ok prompt */

206. [?] /usr/sbin/eeprom diag-switch? true
/* Set the system to perform diagnostics on the next reboot. */

207. [?] /usr/sbin/eeprom local-mac-address?=true
/* Multiple Port Network Card Setting */

208. [?] /usr/sbin/grpck
/* Check /etc/group file syntax */

209. [?] /usr/sbin/pwck
/* Check /etc/passwd file syntax */

210. [?] /usr/sbin/sys-unconfig
/* Clear host specific network configuration information */

211. [?] /usr/sbin/useradd
/* Add a new user to the system */

212. [?] drvconfig ; disks
/* Adding hot-plug disks to system */

```



## System Information/Monitoring

- ```

213. [?] /bin/echo "0t${stamp}>Y\n<Y=Y" | adb
/* Convert UNIX timestamp to something human-readable */

214. [?] /usr/sbin/eeprom
/* Show eeprom parameters */

215. [?] /usr/sbin/prtconf -vp
/* Show system configuration details */

216. [?] coreadm -e log
/* Report global core */

217. [?] grep "\-root" /var/adm/sulog | grep -v \+ | tail -25
/* List most recent attempts to switch to superuser account. */

218. [?] isainfo -bv
/* Quickly checkout if machine is in 32 or 64 bit mode */

219. [?] last
/* Tells who was or still is on the system */

220. [?] logger -i
/* Log the process ID */

221. [?] prtconf -pv | grep banner-name |awk -F' ' { print $2 } ' | head -1
/* Show actual model name of machine */

222. [?] prtdiag -v
/* System Diagnostics */

223. [?] prtpicl -v | grep wwn
/* A command to find persistent binding of storage */

224. [?] psradm -f [processor id]
/* Take processor offline */

225. [?] psrinfo | wc -l
/* Display number of processors */

226. [?] sar -u
/* Report CPU Utilization */

227. [?] sar [ -A ] [ -o filename ] t [ n ]
/* Provides cumulative reports about system activity. */

```



<http://www.sun.com:80/bigadmin/shellme/>



Machine> 13 | grep /\* Displays system information \*/  
219 captures

6 Mar 2001 - 1 Apr 2017

- 230. `uname -X`  
/\* Displays system information \*/
- 231. `vmstat 10`  
/\* Displays summary of what the system is doing every 10 seconds \*/
- 232. `who -b`  
/\* Displays the date of the last system reboot. \*/
- 233. `ypcat hosts | sort -n -t. +0 -1 +1 -2 +2 -3 +3 -4`  
/\* Take the input of "ypcat hosts" or "cat /etc/inet/hosts" and sort by IP. \*/

[News Center](#) ▲ [About Sun](#) ▲ [Contact Sun](#) ▲ [Terms of Use](#) ▲ [Site Map](#)