
\$!	14:13
\$\$	14:13
.netrc	12:27-28
/etc/fstab	6:25
/etc/hosts.equiv	8:23
/etc/inittab Entries	4:8
/etc/netmasks	8:22
/etc/shells	12:25
/home	6:69
/tmp	6:61-67
/usr	6:70
/var	6:68

A

Action Keyword	4:9-10
Adding New Users	5:3
Adding Packages -Deleting Before	
Additional Packages - Installing	3:20
Administering FTP	12:21
Administering FTP Users	12:24
Administration Tools	1:19
AIX	1:20
Alignment	17:60
Anonymous FTP	12:29
Anonymous FTP Service - Setting Up	12:30-33
Arguments	15:28
Arithmetic Conditionals	17:12
Arithmetic for	17:33
Arithmetic for - Example	17:34
Arithmetic Operators	17:28-29
Arithmetic Variables	17:31
Arithmetic Variables and Assignment	17:31
ARP Cache	8:16
arp Command	8:35
Array Name Operators	17:42
Arrays	17:35
Associative Arrays	17:40-41
Attribute Options	17:45-46
Autologin and .netrc	12:26

B

Background	17:67-68
Backup and Restore	13:3
Backup	13:3
Backups	2:9
Banners	14:32
Blocks and Sizes - Check	6:51-52
Booting the Installation Media	3:18
Bourne Shell	16:3
Bourne Shell Programming	16:4
break and continue	16:23
break and continue Statements	17:23

break Statements	17:23
BSD	1:24
Built-in	16:34-35
Built-in Command.....	17:5
Built-in Command - Overriding.....	17:5
Built-in: exec.....	16:30-31
C	
case.....	16:25-26
case - Example #1	16:27
case - Example #2	16:28
case Statement	17:15
case Statement - Example.....	17:16
Catch a Signal: Built-in trap.....	16:32
Checking Disk Performance with iostat and sar	10:27
Checking System Tables with sar -v.....	10:32
Checking the Interface	8:31
Clean and Stable File System.....	6:48
Code Indent.....	14:25
Command Grouping.....	15:32
Command Line.....	15:23
Command Line - Parsing	15:23
Command Separation	15:32
Command Separation and Grouping	15:32
Command Substitution.....	15:46
Command-line Arithmetic.....	17:24
Command-line Options	17:24
Command-line Options and Arithmetic	17:24
Commands.....	15:28
Commands - Executing.....	15:22
Commands and Arguments	15:28
Commands Connected Through Pipes.....	1:10
Commands that Run Automatically.....	9:7-8
Commands that Run Automatically or Manually	9:9
Comments.....	15:9
Common Dot Files	5:25-26
Common Option Interface Style.....	1:11
Configuration - Check	11:17
Configuration File	4:6-7
Connect Session Statistics.....	9:4
Connecting Printers.....	11:3
Connections - Ports.....	12:10
Connectivity - Check	6:56
continue.....	16:23
continue Statements	17:23
Control Connection	12:6, 12:8
Control Connection - Example	12:7
Control Operator	15:29-31
Counters - Critical System Resources	10:3-6
cpio.....	13:11-12
Cylinder Groups - Check.....	6:60

D

Daemons Controlled by the inetd Superserver 8:25-28

Daily Automated Reports 9:18

Daily Command Summary Report and Total Command Summary Report 9:23

Daily Command Summary Report 9:23

Daily Report 9:19

Daily Systems Accounting Summary Report 9:26

Daily Usage Report 9:20-22

Danger..... 12:23

Data Connection 12:9

Data Entry Exercise 16:13

Debugging Shell Scripts..... 16:16

Default Destination 11:13

Deleting Before Adding Packages 3:21

Design Considerations 14:31

Device Files and I/O Redirection 15:39

df - Monitoring File System Use..... 10:30-31

df 6:28

Directory Trees - Move..... 6:39

Disabling LP Print Service..... 11:14

Disk Performance with iostat and sar 10:27

Disk Space Utilization 9:6

Domain Name (DNS/Mail)..... 3:8

Domain Name System 8:20-21

du 6:29

du Parameters..... 6:30

dump Command..... 13:9-10

E

echo..... 16:29

echo and read 16:29

Enabling/Disabling the Interface 8:32

Enabling and Disabling LP Print Service 11:14

Enabling LP Print Service 11:14

Environment Control 15:43

Executing Commands 15:22

Executing Commands - Manually 9:10-11

Expansion - Other 15:49

Expression Assignments - Examples..... 17:32

External Programs 14:15

F

Fields in the vmstat Report 10:19-20

File Attribute Operators 17:8-11

File Descriptors 17:50

File Exists 14:18

File System - Clean and Stable 6:48

File System Levels 6:5

File System - What is it 6:4

File test Exercise..... 16:10

Files - Types..... 6:9

File Types..... 1:12

File Types - None 1:12

Files in the /var/adm Directory 9:13
 Files in the /var/adm/acct/nite Directory 9:14-15
 Files in the /var/adm/acct/sum Directory 9:16
 Filesystem Types 726
 find..... 6:40
 find Common Parameters 6:41
 find Examples..... 6:42-43
 First Script 14:3-4
 Flow Control Constructs 17:3
 for - Example 14:28, 16:24
 for Statement..... 17:13
 for Statement - Example 17:14
 for 16:18
 for... in..... 16:17
 Foreground..... 17:67-68
 Foreground and Background 17:67-68
 Fork Process 7:12
 Format Specifiers Used in printf 17:58-59
 Four-layer Model of TCP/IP 8:4-6
 fsck - Repairing File Systems..... 6:44
 fsck - Running it 6:50
 fsck - When to Run..... 6:49
 fsck Finishes - What Has to be Done?..... 6:61
 fsck Utility 6:45
 FTP - Administering 12:21
 FTP - History 12:3
 FTP - Reliability 12:11-12
 FTP - Troubleshooting 12:34-39
 ftp Commands..... 12:16-17
 FTP Connections 12:4-5
 ftp Prompt..... 12:14-15
 FTP Response Code..... 12:19-20
 FTP Responses 12:18
 FTP Session 12:13
 FTP Users - Administering 12:24
 Functions 14:16-17, 16:36-37

G

Generation of System Accounting Data Reports 9:17
 getops Statements 17:26
 Group File..... 5:13-14
 Group IDs..... 5:9

H

home Partition 3:15
 Host Name 3:7
 Host Names 8:18
 Host Name and the /etc/hosts Table..... 8:19
 HP-UX 1:21

I

I/O Performance Monitoring Tools 723

I/O Redirection 15:39

I/O Redirection: Example 15:37-38

I/O Redirection: Purpose and Function..... 15:33

I/O Redirection: Special Characters..... 15:36

I/O Redirectors 17:48-49

if ... then 16:5

if Structure 14:30

if/else - Use 16:12

if/else 16:12, 17:4

if...then...elif..... 16:15

if...then...else..... 16:14

IFS..... 14:14

include File 13:8

Indexed Arrays 17:36-38

Indexed Arrays - Examples 17:39

inetd Superserver Daemon 8:24

Initialization Process 4:4-5

inode Information 6:7

inodes 6:6, 6:47

Input and Output Management 7:22

Install - From Where..... 3:4-5

Installation 3:3

Installation - Planning..... 3:3

Installation Media - Media 3:18

Installing Optional or Additional Packages..... 3:20

Installing the Master System 3:19

Interface - Checking 8:31

Interface - Enabling/Disabling 8:32

Internet Control Message Protocol 8:7-8

iostat Shows the Following..... 10:28

iostat..... 10:27

IP Address, Netmask - Setting..... 8:29-30

IP Addresses - Assigning 3:17

Job - Suspending 17:69

Job Numbers..... 17:66

K

Kernel - Rebuilding - When 727

Kernel - What is it..... 7:3

Kernel Mode 7:6

Kernel Parameters 10:37 - 38

Kernel Services 7:4

Kernel Space..... 7:20

Korn Input/Output..... 17:47

L

Layout..... 14:35
 Layout Rules 14:36-38
 Lesser Banners 14:33

 Linux..... 1:23
 List Symbols..... 14:23
 In..... 6:31-32
 Local Printing Services - Setting Up 11:7-8
 Looping through Parameters..... 14:12
 lost+found..... 6:62-63
 LP Print Service 11:14
 LP Printing Service..... 11:4-6

M

Manually Executed Commands 9:10-11
 Master System - Installing..... 3:19
 Memory Management 7:14, 10:15
 Miscellaneous Files..... 5:15-16
 Monitoring Disk Subsystem Performance..... 10:25-26
 Monitoring File System Use with df..... 10:30-31
 Monitoring Memory Performance - sar -wpgr 10:21-23
 Monitoring Memory Performance - vmstat..... 10:17-18
 Monitoring System Status - uptime 10:7-9
 mount all..... 6:27
 Mount Options..... 6:21
 Mounting and Unmounting File Systems 6:18
 Mounting and Unmounting File Systems - Manually 6:20
 Mounting File Systems..... 6:18
 Mounting File Systems - Manually 6:20
 Mounting File Systems - Warning 6:19
 Mounting File Systems Automatically 6:23-24
 Move a Directory 5:24
 Move Directory Trees..... 6:39
 Multiprocessor Implications - vmstat..... 10:24
 Multi-user..... 1:13

N

Name Services..... 8:17
 Naming the System..... 3:6
 netstat..... 8:12-13
 Network Centricity 1:15
 Network File System 1:18
 Network Responsibilities 2:11
 New User Tools - Adding 2:5
 New Users - Adding 5:3
 nologin..... 4:15
 Numeric Variables and Arithmetic 17:27

O

Operating Systems..... 1:6
 Optional Packages - Installing..... 3:20
 Options to Print 17:56
 Orthogonal Commands 1:9

P

Page Size..... 7:21
 Parameters and Variables..... 15:11
 Parameters..... 15:11
 Parentheses 17:30
 Partition - root, swap, usr, var, home, tmp 3:11
 Partitions 3:9-3:10
 Partitions - Laying Out..... 3:3
 Partitions - Purpose and Function..... 6:64-66
 Partitions - Special 6:26
 passwd Fields - Other 5:10
 Password..... 5:6
 Password File..... 5:4
 Pathname Expansion 15:47-48
 Pathnames - Check..... 6:53-55
 Performance..... 2:10
 Phase 1: Check Blocks and Sizes 6:51-52
 Phase 2: Check Pathnames..... 6:53-55
 Phase 3: Check Connectivity 6:56
 Phase 4: Check Reference Counts..... 6:57-59
 Phase 5: Check Cylinder Groups..... 6:60
 ping..... 8:9
 Pipe 14:20
 Pipes - Commands Connected Through..... 1:10
 Pipes: Example #1 14:21
 Pipes: Example #2 14:22
 pkginfo..... 3:22
 Port Ownership 11:12
 Positional Parameters 15:12-14
 Precision 17:61
 Print - Options 17:56
 Print Destination..... 11:9-11
 Print Escape Sequences 17:55
 Print Requests - Managing..... 11:15
 Print Service User Management 11:18
 Printer Configuration Management..... 11:16
 printf 17:57
 Process Handling 17:65
 Process IDs..... 17:66
 Process IDs and Job Numbers 17:66
 Process Management 7:7
 Process Run States 7:13
 Process Structure..... 7:8-10
 Process Table 7:11
 Process Usage..... 9:5
 Psuedo Users..... 5:5:17

Q

Quote Characters 15:27

R

RC Scripts 4:11
 read 16:29
 read Command 17:62
 Reading Lines from Files 17:63
 Reading Lines from Files - Example 17:64
 Rebuilding the Kernel - When 727
 Redirect 17:51
 Redirect to stderr 14:26
 Redirect: How it Works 15:34-35
 Redirects 14:24
 Reference Counts - Check 6:57-59
 Reliability of FTP 12:11-12

Remote or Pseudo Terminals - telnet 1:16
 Remote Shell - Different from a telnet Session 1:17
 Removing Usernames 5:27
 Repairing File Systems with fsck 6:44
 Resident Memory 7:16
 Restore 13:3
 RIT: Route Information Table 8:10-11
 root Partition 3:11
 Route Table Maintenance 8:14-15
 Router Log Facility 8:37
 Router Logs 8:38

S

sar 10:27
 sar -d 10:29
 sar -q 10:10-11
 sar -u 10:12, 10:13, 10:14
 sar -v 10:32
 sar -wpgr 10:21-23
 sar,iostat and monitor 724-25
 Script - First 14:3-4
 Select - Example 17:19
 select Statement 17:17-18
 Service - Set up 12:22
 Shadow Password File 5:11-12
 Shell Parameters 15:20
 Shell Programming 15:5
 Shell Script - Creation 15:4
 Shell Script - Invoking 15:6-8
 Shell Scripts - Debugging 16:16
 Shell Variables 15:40-41
 Shell Variables Local versus Environment Variables 15:42
 Shells 15:3
 Shells are Programs 15:21
 shift 17:25
 Shutdown 4:16-18
 Signal: Built-in trap 16:32

Simple Menu	14:27
snoop: Protocol Analysis Tool.....	8:40
Solaris	1:22
Special Characters.....	15:24-26
Special Filenames.....	17:52-54
Special Parameters.....	15:15
Special Parameters.....	15:17-19
Special Parameters - Examples.....	15:16
Special Partitions	6:26
Special User IDs	5:8
Startup.....	4:3
Startup Daemons and Programs	4:12-14
Startup Files.....	15:10
String - Example.....	17:7
String Comparisons	17:6
String Formatting - Example	17:44
String Formatting Options	17:43
Super User	1:14
Superblock	6:8, 6:46
Supporting Systems.....	2:7
Suspending a Job	17:69
swap.....	6:71
swap Partition.....	3:12
Swapping.....	10:16
Symbols.....	14:34
syslogd Log Files	8:39
System Accounting Basics.....	9:3
System Accounting Data Reports - Generation.....	9:17
System Accounting High-Level Directory Layout.....	9:12
System Design	2:8
System Initialization	7:5
System Load	2:10
System Load and Performance	2:10
System Scripts	16:38
System V.....	1:24
System V and BSD	1:24
 I	
tar	6:33
tar Command	13:4-6
Tar Examples	6:35-38
tar List Option.....	13:7
Tar Parameters	6:34
Tasks for the System Administrator.....	2:3
TCP/IP - Four-layer Model	8:4-6
TCP/IP Communications.....	8:3
TCP/IP Diagnostic Tools - Commonly Used.....	8:33-34
telnet - Remote or Pseudo Terminals	1:16
test Command.....	16:6
test Criteria	16:7, 16:9, 16:11
test Operator Exercise	16:8
tmp Partition	3:16
Total Command Summary Report	9:23-25

traceroute	8:36
trap - Example	16:33, 17:71
trap	17:70
Troubleshooting FTP	12:34-39
Tunable Kernel Parameters - Displaying	10:33-35
Tunable Parameters - Current Values - Displaying	10:36
Type and Attribute Options	17:45-46
Type Options	17:45-46
Types of Files - Block Devices	6:17
Types of Files - Character Devices	6:16
Types of Files - Directories	6:11
Types of Files - Hard Links	6:12
Types of Files - Named Pipes	6:15
Types of Files - Normal Files	6:10
Types of Files - Sockets	6:14
Types of Files - Symbolic Links	6:13
Types of Files	6:9

U

Uninitialized Variable	14:8
UNIX Memory Management	10:15
UNIX Philosophy	1:8
UNIX System	1:7
UNIX Variants	1:3-4
UNIX: What is it	1:5
unmount	6:22
Unmounting File Systems	6:18
Unmounting File Systems - Manually	6:20
until	16:22
until Statement	17:20-21
User Accounts	2:4
User Accounts - Creating	2:4
User Command Options	5:22-23
User ID	5:7
User Limiting Commands	5:31-32
User Maintenance Commands	5:18-19
User Monitor Commands	5:28-30
User Support	2:6
User Support - Providing	2:6
User Tools - Adding	2:5
useradd	5:20
userdel and usermod	5:21
Username	5:5
Usernames - Removing	5:27
usr Partition	3:13

V

var Partition	3:14
Variable \$0	14:10-11
Variable - Uninitialized	14:8
Variable Substitution - Advanced	15:44
Variable Substitution Example	15:45
Variable: Setting	14:7

Variables 14:6, 15:11
Variables: Another Use 14:9
Variants - UNIX 1:3-4
Verify 14:19
Virtual Address Space..... 7:17-19
Virtual Memory 7:15
vmstat..... 10:17-20, 10:24

W

Warning 6:3
while 16:19
while - #2 16:20
while - #3 16:21
while - Example 17:22
while and until Statements 17:20-21
while Loop 14:29
while Statement..... 17:20-21
White Space..... 14:5
Width 17:60
Width and Alignment 17:60