

## A

.login file 5-21  
.logout file 5-6, 5-21–5-22  
\_sh environment variable 5-4, 5-28  
Abort process 3-6, 5-2, 5-6, 5-21, 5-31  
Access to files/directories 4-4, 4-5, 4-9, 4-15, 4-19  
Additional memory size modifier 5-9  
Application program 1-2  
ASCII conversion table Apdx A  
Attach device 8-8  
Attr utility 4-18–4-19  
Attributes 4-18–4-19  
    Abbreviations 4-5  
    Attr utility 4-18–4-19  
    Changing 4-19  
    Displaying 4-18  
    File security 4-4

## B

Background process 3-6, 5-15, 5-20, 5-21, 5-30, 5-32  
    Definition 1-4

## B (continued)

Backup procedure 2-3, 2-5–2-7  
    Frestore utility 7-6–7-11  
    Fsave utility 7-2–7-5  
    Incremental 7-1–7-14  
    Multiple drive 2-6  
    Single drive 2-6  
Backup utility 2-3, 2-5–2-7  
Binary conversion table Apdx A  
Binex utility B-5  
Boot 2-1, 8-26  
Bootfiles 8-14  
Build utility 4-3, 4-18  
Built-in shell commands 5-6  
    Chd utility 4-7, 4-13–4-14, 5-3, 5-6  
    Chx utility 4-13–4-14, 5-6  
    Ex utility 5-6  
    Kill utility 5-6, 5-32  
    Logout utility 5-6  
    Profile 5-6, 5-32  
    Set utility 5-6  
    Setenv utility 5-4, 5-6  
    Setpr utility 5-6  
    Unsetenv utility 5-4, 5-6  
    W utility 5-6, 5-30  
    Wait utility 5-6, 5-30

**C**

Cfp utility 5-25–5-26  
 Chd utility 4-7, 4-13, 4-14, 5-3, 5-6, 5-8  
 Chx utility 4-13, 4-14, 5-6, 5-8  
 Command interpreter 3-3  
 Command line 3-3, 5-7  
     Concurrent execution 5-9, 5-15  
     Execution modifiers 5-7–5-12  
     Function 3-3  
     Grouping 5-19  
     Keyword 5-7, 5-8  
     Parameters 5-7, 5-8  
     Processing 5-7, 5-8, 5-16  
     Separators 5-7, 5-9, 5-14  
     Sequential execution 5-9, 5-15  
     Wildcards 5-9, 5-13–5-14  
 Command separators 5-7, 5-9, 5-14  
 Concurrent execution 5-9, 5-15  
 CONFIG macro 8-2, 8-10  
 Control keys 3-5, 3-6  
 Copy a file 4-20–4-25  
     Copy utility 4-20–4-22  
     Dsave utility 4-22–4-25  
 Copy utility 4-20–4-22  
 Current data directory 4-7, 4-9, 4-11, 4-12, 4-13, 4-16  
 Current execution directory 4-7, 4-9, 4-12, 4-13, 4-14

**D**

Data files 4-3  
 Date utility 2-2  
 Decimal conversion chart Apdx A  
 Default device descriptor 8-20  
 Deiniz utility 8-19  
 Del utility 4-25–4-26  
 Deldir utility 4-25–4-26  
 Delete a file/directory 4-25–4-26  
 Destination disk 2-5  
 Dir utility 4-11–4-13

**D (continued)**

Directory  
     Accessing 4-9, 4-15  
     Attributes 4-8, 4-18–4-19  
     Changing 4-14, 5-3  
     Characteristics 4-8  
     Creating 4-16  
     Current data 4-7, 4-9, 4-11, 4-12, 4-13, 4-16  
     Current execution 4-7, 4-9, 4-12, 4-13, 4-14  
     Deldir utility 4-25–4-26  
     Deleting 4-25–4-26  
     Dir utility 4-11–4-13  
     Displaying 4-11–4-13  
     Extended listing 4-12  
     Function 1-3, 4-1  
     Home 4-7, 5-3  
     Makdir utility 4-16  
     Name rules 4-17  
     Parent 4-6, 4-14  
     Pathlist 4-9–4-10  
     Root 4-6  
 D\_MaxAge 8-27  
 D\_MinPty 8-27  
 Dsave utility 4-22–4-25

**E**

Edt utility 4-18  
 Environment variables 5-3–5-5  
     Changing 5-4  
     HOME 4-8, 5-3  
     PATH 5-3  
     PORT 5-3  
     PROMPT 5-4  
     \_sh 5-4  
     SHELL 5-3  
     TERM 5-4  
     USER 5-3  
 Ex utility 5-6  
 Executable program module files 4-3

**E (continued)**

Execution modifiers 5-12  
 Additional memory size 5-9  
 I/O redirection 5-10  
 Process priority 5-12

**F**

## Files

Accessing 4-4, 4-9-4-10, 4-13-4-16  
 Attributes 4-4, 4-5, 4-18-4-19  
 Copy utility 4-20-4-22  
 Copying files 4-20-4-25  
 Creating 4-17-4-18  
 Build utility 4-18  
 Edt utility 4-18  
 uMACS 4-18  
 Deleting 4-25-4-26  
 Directory 4-8  
 Executable program module 4-3  
 File pointer 4-2  
 Function 1-3, 4-1  
 List utility 4-19-4-20  
 Name rules 4-17  
 Ownership 4-4, 4-19  
 Password 5-24  
 Pathlist 4-9  
 Procedure files 5-21-5-27  
 .login 5-21  
 .logout 5-21  
 Applications 5-20  
 Cfp utility 5-25  
 Dsave utility 4-22  
 Password 5-24  
 Startup file 8-17  
 Security 4-4-4-5  
 Termcap 8-31-8-37  
 Text 4-3  
 Filters 5-18  
 Foreground process  
 Definition 1-4

**F (continued)**

Format utility 2-3-2-5  
 Multiple disk 2-4  
 Parameters 2-3  
 Single disk 2-4  
 Free utility 3-9  
 Frestore utility 7-6-7-11  
 Fsave utility 7-2-7-5

**G - L**

Group.user ID 4-4  
 Grouping commands 5-19  
 Hard disk  
 Installing OS-9 8-24  
 Help utility 3-8  
 Hexadecimal conversion chart Apdx A  
 Home directory 4-7, 5-3  
 HOME environment variable 4-8, 5-3  
 Init module 8-2  
 CONFIG macro 8-10  
 Initializing devices 8-18  
 Iniz utility 8-18  
 Keyword 5-7, 5-8  
 Kill utility 5-6, 5-31, 5-32  
 List utility 4-19  
 Load utility 8-20  
 Login procedure 3-2  
 Logout utility 5-6

**M**

Makdir utility 4-16  
 Make utility Chap. 6  
 Memory allocation  
 Mfree utility 3-9, 3-10  
 Mfree utility 3-9, 3-10  
 Moded utility 8-9  
 Modifiers 5-7-5-13  
 Execution 5-7-5-13  
 Memory size 5-9  
 Process priority 5-9  
 Redirection 5-9, 5-10-5-12

**M (continued)**

## Modules

- De-initializing 8-18
- Editing
  - Moded utility 8-9
  - Systype.d file 8-10
- Executable program 4-3
- Extension 8-8
- Init 8-2-8-6, 8-12
- Initializing 8-18
- Library 1-6
- Loading 8-20
- Memory 1-6, 8-21
- Moded utility 8-9
- Multi-tasking features 1-4-1-5
- Multi-user 1-4-1-5, 8-21
- Multiple shells 5-27

**N - O**

- Named pipes 5-17
- Naming conventions
  - Files/directories 4-17
  - I/O devices 5-11
- Octal conversion chart Apdx A
- Operating system
  - Definition 1-1
  - Function 1-1, 1-2
- OS9Boot file 2-1, 8-2
- Owner attributes 4-5, 4-19

**P**

- Page pause 3-6
- Parameter
  - Command line 5-7, 5-8
- Parent directory 4-6, 4-14
- Password file 5-24
- PATH environment variable 5-3
- Pathlist
  - Full 4-9
  - Naming conventions 4-10
  - Relative 4-9, 4-10, 4-14

**P (continued)**

- Pd utility 4-16
- Pipe (line) 5-16
  - Construction 5-9
  - Definition 5-16-5-17
  - Filters 5-18
  - Named 5-17
  - Un-named 5-17
- PORT environment variable 5-3
- Powering down the system 8-22-8-23
- Printenv utility 5-4-5-5
- Priority
  - Age 5-12, 8-27
  - Definition 5-12
  - D\_MaxAge 8-27
  - D\_MinPty 8-27
  - Initial 5-12
  - Manipulating 8-27
  - Modifier 5-13
  - Setting 5-9
- Procedure files
  - .login 5-21
  - .logout 5-21
  - Applications 5-20
  - Cfp utility 5-25-5-26
  - Definition 5-20
  - Dsave utility 4-22-4-25
  - Shutdown 8-22-8-23
  - Startup file 8-17
- Process
  - Age 5-12, 8-27
  - Child 5-10
  - Definition 1-4
  - Parent 5-10
  - Priority 5-9, 8-27
  - Scheduling 8-27-8-28
  - System state 8-28
  - User state 8-28
- Procs utility 5-16, 5-28
- Profile utility 5-6, 5-22
- PROMPT environment variable 5-4

**R**

RAM disk 8-16  
     Initializing 8-21  
     Non-volatile 8-16  
     Volatile 8-16  
 Redirecting output 5-9, 5-10–5-12  
 Root directory 4-6

**S**

Separators  
     Command line 5-7, 5-9  
     Concurrent execution 5-9  
     Pipes 5-9  
     Sequential execution 5-9, 5-15  
 Sequential execution 5-9, 5-15  
 Set utility 5-6  
 Setenv utility 5-4, 5-6  
 Setime utility 2-2  
 Setpr utility 5-6  
 SHELL environment variable 5-3  
 Shell environment variables 5-3–5-5  
 Shell utility 3-3, 5-3  
     Built-in command 5-6  
     Chd utility 4-17, 4-13–4-14, 5-3, 5-6  
     Chx utility 4-13–4-14, 5-6  
     Ex utility 5-6  
     Kill utility 5-6, 5-32  
     Logout utility 5-6  
     Profile utility 5-6, 5-22  
     Set utility 5-6  
     Setenv utility 5-4, 5-6  
     Setpr utility 5-6  
     Unsetenv utility 5-4, 5-6  
     W utility 5-6, 5-30  
     Wait utility 5-6, 5-30  
 Environment 5-3–5-4  
     Changing 5-4  
 Function 5-1  
 Multiple shells 5-27  
 Options 5-1–5-2  
 Procedure files 5-20

**S (continued)**

Shutting down the system 8-22–8-23  
 Source device 7-1  
 Source disk 2-5  
 Startup file 2-1, 8-17  
 Startup procedure 5-22, 8-17  
 Super user  
     Defined 4-4  
 System disk  
     Directories 2-8  
 System security 4-4  
 System shut down 8-22–8-23  
 Systype.d file 8-2, 8-10

**T - Z**

Tape utility 7-15–7-16  
 Target device 7-1  
 TERM environment variable 5-4  
 Termcap file 8-31–8-37  
 Tmode utility 3-6, 8-29  
 Tsmon utility 5-23, 8-21  
 Un-named pipes 5-17  
 Unsetenv utility 5-4, 5-6  
 USER environment variable 5-3  
 W utility 5-6, 5-30  
 Wait utility 5-6, 5-30  
 Wildcards 5-9, 5-13–5-14  
 Xmode utility 8-29

**Notes**