

# Index

## • Symbols •

- \* (asterisk) wildcard, 320
- \$ (dollar sign) in shell prompts, 316
- . (dot) in filenames, 317
- " (double quotes) in shell commands, 326
- .. (double-dot) directories, 115
- help option, 319
- ? (question mark) wildcard, 320
- > redirection operator, 327–328
- >> redirection operator, 328
- / (root directory), 108, 109
- / (root mount point), 49
- . (single dot) directories, 115
- ' (single quotes) in shell commands, 325, 326
- ~ (tilde) in shell prompts, 316, 317

## • A •

- About Me settings (KDE), 102
- accessibility features, 85–86, 102, 163, 355
- actions scheduler, 355
- Add and Remove Software utility (KDE), 103
- adding widgets (KDE), 94, 95–98
- add-ons, Firefox, 160, 164–165
- add/remove programs, 306, 307–308
- addresses, computer, 142, 143
- administration, system, 331, 332–339, 416
- Administration programs (KDE), 90
- administrator files, 109, 111
- administrator login accounts, 50
- administrivia, defined, 2
- alias command, 411
- Always on Visible Workspace option, 73
- Amarok, 255, 256–258
- anacron (actions scheduler), 355
- Appearance Preferences dialogbox, 78, 79–85
- Apple QuickTime video formats, 266, 271
- application, defined, 3
- Application Launcher widget (KDE), 96
- applications, described, 305. *See also* software
- Applixware Office, 214
- apropos command, 410

- apt-get program, 298, 300
- archives, creating, 299–300, 410–411
- Ark, 284
- assistive features, 85–86, 102, 163, 355
- Assistive Technologies Preferences dialog box, 85–86
- asterisk (\*) wildcard, 320
- atd (actions scheduler), 355
- ATI video drivers, 282, 283
- audio, 103, 249–253, 260, 355. *See also* music
- audio cards, 34, 252–253, 372
- audio file support, 259
- Audio Visual Interleave (AVI) format, 271
- auth.log file, 361
- automated trash reports support, 355
- automated programs, storage location, 110
- AVI (Audio Visual Interleave) format, 271

## • B •

- backgrounds, desktop, 82–83
- backups, system, 398
- badblocks command, 415
- banner pages, 345–346
- Base, OpenOffice.org, 214, 235–241
- base directory, 108, 109
- BASH BUILTINS help information, 411–412
- bash shell (Bourne again shell)
  - command history, 321–322
  - commands, 411–412
  - described, 313, 314
  - help information, 329, 411–412
  - long commands, 320–322
  - pipes, 327, 328–329
  - redirecting, 327–328
  - scrolling up, 328
  - starting session, 314
  - syntax, 317–319
  - variables, 322–326
- bash\_history file, 322
- .bashrc file, 326
- Basic Input/Output System (BIOS), viewing/
  - setting, 24–25, 37–38
- battery meter gadget, 290

- Battery Monitor widget (KDE), 96
  - benevolent dictators, 15
  - Binary Clock widget (KDE), 96
  - BIOS (Basic Input/Output System), viewing/
    - setting, 24–25, 37–38
  - BitTorrent, 173–175
  - Blogger, 293
  - bluetooth device management, 355, 356
  - Bogofilter spam filtering program, 199
  - boot environment, changing, 402–404
  - Boot from Local Drive option (Fedora), 54
  - boot information, storage location, 109
  - boot loader, 52, 58, 405–406
  - boot process. *See also* dual-boot systems
    - from CD/DVD, 38, 42
    - configuration files, 110
    - Fedora, 54, 61–63
    - from hard drives, 54
    - troubleshooting, 404, 405–406
    - Ubuntu, 44
  - boot.log file, 361–362
  - Bourne again shell. *See* bash shell
  - Bourne shell, 314
  - Braille display management, 355
  - Brasero CD-burning utility, 138
  - breadcrumbs, Dolphin file manager, 129
  - bringing programs to the front, 72
  - bunzip2 command, 410
  - bunzip/bunzip2 file types, 298
  - burning CD/DVDs. *See* CDs; DVDs
    - .bz/.bz2 files, 298
  - bzflag (game), 283
  - bzip program, 298
  - bzip/bzip2 file types, 298
  - bzip3 command, 410
- C •
- C (computer programming language), 11, 111
  - Calc, OpenOffice.org, 214, 219, 220–224, 293
  - Calculator gadget, 290
  - Calculator widget (KDE), 96
  - case sensitivity, in filenames, 108
  - cat command, 322, 329, 414
  - cd command, 412
  - CD/DVD Creator window (Nautilus), 133
  - CD/DVD drives
    - booting from, 38, 42
    - disk controllers, 25
    - ISO image files, burning, 43, 54, 400
    - virtual server options, 378
  - CDs
    - audio, burning, 262–264
    - burn speed, 43
    - burning software, 133
    - copying music from, 254, 260–262
    - damaged, fixing, 43
    - data, burning, 135–138, 420
    - listening to, 253–255
    - troubleshooting, 43
    - writable, 133
  - Certified, defined, 35
  - chgrp command, 413
  - chmod command, 413
  - chown (change owner) command, 117, 413
  - clear command, 323
  - CLI (command-line interface), 313, 402–404, 409
  - CMOS (Complementary Metal-Oxide Semiconductor) storage, 38
  - codecs, 253, 267, 282
  - Color Picker widget (KDE), 96
  - Comic Strip widget (KDE), 96
  - command completion, 320–321
  - command prompt, 2–3
  - command-line interface (CLI), 313, 402–404, 409
  - commands, defined, 3
  - comma-separated (CSV) file format, 224
  - commercial software, licensing, 10
  - Common UNIX Printing System (CUPS), 339. *See also* Printer Configuration tool
  - Compatible, defined, 35
  - compilation, 14
  - Complementary Metal-Oxide Semiconductor (CMOS) storage, 38
  - compress program, 299, 411
  - compressing files, 299–300, 410–411
  - computer activity logger, 355
  - Computer desktop icon, 73
  - Computer Management Tool (Windows), 28–29, 31–32, 36, 37
  - conferencing technology, 177–178
  - configuration files, storage location, 109
  - controls, customizing theme, 82
  - cookies, managing, 161
  - copyleft software, 14
  - copyright, 14, 158, 271, 274, 368
  - core Linux distributions, 16–17
  - cost, Linux, 12

cp command, 412  
 CPU frequency manager, 355  
 CPU utilization, viewing, 352  
 crash recovery, 48  
 crontab command, 417  
 CrossOver Office software, 266  
 CSV (comma-separated) file format, 224  
 CUPS (Common UNIX Printing System), 339. *See also* Printer Configuration tool  
 Custom Application Launcher, 75  
 Customize Theme dialog box, 79, 82

## • D •

daemon.log file, 362  
 data files, storage location, 109  
 Data Interchange Format (DIF), 223  
 data transfer, to Linux from old OS, 22  
 Date & Time utility (KDE), 103  
 Date and Time applet, 72  
 dBase (DBF) format, 223  
 .deb packages, 298, 300  
 Debian core Linux distribution, 16–17  
 Default Applications settings (KDE), 102  
 defragmenting files, 33–34  
 Delete from Trash command, 74  
 dependencies, described, 304  
 depmod command, 417  
 Desktop Editor (KDE), 95  
 desktop environments, switching between, 87.  
     *See also* GNOME desktop; KDE  
 developers, contributing, 15  
 Development programs (KDE), 30  
 device drivers, storage location, 109  
 Device Manager Tool (Windows), 36, 37  
 df command, 412  
 DHCP, 142  
 Dictionary widget (KDE), 96  
 DIF (Data Interchange Format), 223  
 digital audio players, interfacing with, 258  
 Digital Clock widget (KDE), 93, 96  
 Digital Millennium Copyright Act (DMCA), 274  
 directories, 108, 109, 110, 111, 115  
 disabilities, features for people with, 85–86, 102, 163, 355  
 Disk Defragmenter tool, 33–34  
 Disk Management Tool (Windows), 27–28  
 disk-controllers, 25–26

disks, hard. *See* hard drives  
 Display utility (KDE), 103  
 displays, computer, 103, 362, 404  
 distributions, 16–18, 399–400. *See also*  
     Fedora full distribution; Ubuntu LiveCD  
     distribution  
 DivX video file format, 271  
 DivX Web Player plugin, 266  
 DMCA (Digital Millennium Copyright Act), 274  
 Do not use partition type (Ubuntu), 48  
 dollar sign (\$) in shell prompts, 316  
 Dolphin file manager, 90, 119, 128–135, 299–300  
 dot (.) in filenames, 317  
 double quotes (") in shell commands, 326  
 double-dot (..) directories, 115  
 downloaded music, listening to, 255–259  
 downloads, 160, 161  
     dpkg file types, 298  
 Dr. Hardware detection tool, 36  
 Draw, OpenOffice.org, 214, 231–234  
 drawers, 77  
 drivers, 35, 38  
     du command, 318–319, 412  
 dual-boot systems, 21–24, 26, 133–134, 405–406  
 DVD-ROM drives. *See* CD/DVD drives  
 DVDs  
     audio, burning, 262–264  
     bootable for installing, 38  
     burning software, 133  
     copyright issues, 274  
     data, burning, 135–138, 420  
     image-burning software, 43, 54, 400  
     installation, creating, 54  
     troubleshooting, 43  
     watching, 274  
     writable, 133  
 dwells, mouse, 86  
 dynamically expanding storage, virtual server, 368

## • E •

echo command, 321  
 Education programs (KDE), 90  
 effects, visual interface, 84–85  
 efficiency, Linux, 12  
 802.1x security settings, 149  
 eject command, 415  
 Eject option for removable media, 132

Ekiga Internet Phone software, 177–179  
e-mail

- applications available, 183
- environment variable, 323
- Evolution package, 71, 184, 185–191, 192
- information needed for, 183–184
- KMail package, 193–195, 196–200
- security, 184
- service, internal, 357
- spam, 192, 199–200
- storage location, 109
- troubleshooting, 362

emoticons, KDE, 100

Empty Trash command, 73–74

encryption, data, 57

env command, 325, 411

environment variables, 322–324, 325, 326, 411

error, command line standard, 327

/etc directory, 109, 110

e2fsck command, 415

e2label command, 415

Evolution e-mail software, 71, 184, 185–191, 192

executable files, described, 14. *See also*  
software

execute permissions, 117

Exit button (KDE), 94

export command, 411

ext2/ext3/ext4 filesystems, 48

extended partitions, 26

extensions, browser, 164, 269

## • F •

fack command, 415

Fast Video Download, 269–270

FAT16/FAT32 filesystems, 48

Favorites (KDE), 89, 90

fdisk tool, 29–31

Fedora distributions, 16, 17

Fedora 11, availability, 1

Fedora full distribution

- adding software, 306–307, 308–309
- administrator accounts, 56, 62
- availability, 38
- boot, 54, 62–63
- described, 54
- desktop, 95
- on DVD, accompanying, 419
- firewall, 135
- Google Gadgets, 287
- graphical interface, 54

icons, desktop, 73

installation, 54, 55–61

installation, preliminary steps, 42

K3b installation, 135

license agreement, 62

OpenOffice.org, installation, 214

popularity, 42

profile information, 63

Samba availability, 382

System Settings utility, 99

text-based interface, 54

time server, setting up, 62–63

updating, 300–304

upgrading, 312

user accounts, 56, 62

video drivers, 282

Web sites, 274

Fedora Network Configuration tool, 142

Fedora Project online resources, 39, 274

Fedora User Manager tool, 332–339

Fedora yum software installer, 282–283, 298,  
300, 357

Fifteen Fuzzle widget (KDE), 97

File Archive Manager applications, 284

file command, 413

File Manager option (KDE), 90

file managers. *See also* Dolphin file manager;  
Konqueror file manager/browser; Nautilus  
file manager

command line, 111, 112–115

default, 119–120

graphical, 119–120

File Roller, 284

File Searcher search utility, 140

file servers. *See* files, sharing

File Transfer Protocol (FTP) file transfers,  
175–177

file viewer commands, 414

File Watcher widget (KDE), 97

files. *See also* directories

administrator, 109, 111

attributes commands, 413

compressing, 299–300, 410–411

configuration, 109

data, 109

defragmenting, 33–34

executable, 14

extensions, proliferation, 297

hidden, 113, 123

locator commands, 413–414

log, 48, 360–362, 397

- naming conventions, 108, 113
  - organization commands, 412–413
  - owners, 116, 117
  - permissions information, 114
  - files, sharing. *See also* Samba communication software
    - BitTorrent, 173–175
    - between Linux and Microsoft, 415–416
    - Linux groups, creating, 383–384
    - Microsoft network environment, 381
    - troubleshooting, 396
    - using Gnutella network, 181
  - filesystems, 48, 107, 108, 109, 414–415
  - FileZilla graphical FTP program, 175–177
  - find command, 322, 414
  - Firefox Web browser
    - add-ons, 160, 164–165
    - bookmarks, 160, 166
    - configuring, 158–164
    - copyright, 158
    - downloads via, 160, 161
    - on DVD, accompanying, 419
    - Flash player, adding, 256
    - history, 161, 166
    - plugins, 266, 267–268
    - popularity, 158
    - starting, 71, 158, 266, 293
    - surfing with, 165–167
    - tabs, 166–167
    - text, 161
  - firewalls, network, 53, 357–360, 390
  - fixed-size storage, virtual server, 368
  - FLAC (.flac) sound format, 250
  - flag, defined, 3
  - flexibility, Linux, 11
  - floppy drives, 91, 133, 372, 378. *See also* removable media
  - flower pot Google gadget, 290
  - Folder View widget (KDE), 94–95, 97
  - folders
    - managing, 123–124, 126–127, 130, 131
    - menu options, 67, 68–69
    - selecting, 126
    - shared, 372, 378, 384–386, 394–396
    - Trash, 126–127
    - view widget, 94–95, 97
  - folding markers (KWrite), 211
  - Font Installer utility (KDE), 103
  - Font Rendering Details dialog box, 83–84
  - fonts, 103, 205, 211
  - forward slash (/) filesystem syntax, 108
  - free software, 9–10. *See also* open-source software
  - Free Software Foundation (FSF), 14
  - freedom (game), 283
  - Freshmeat Web site, 80
  - FTP (File Transfer Protocol) file transfers, 175–177
  - FTP services, 360
  - Fuzzy Clock widget (KDE), 97
- G •**
- games, 90, 111, 282–284, 419
  - gateway address, 142
  - gedit text editor, 201, 202–207
  - Gentoo distribution, described, 17
  - gFTP graphical FTP program, 175
  - GIDs (Group ID numbers), 333
  - The GIMP (GNU Image Manipulation Program)
    - described, 274
    - editing images, 278–280
    - menu, 67
    - opening, 274
    - screenshots, 277–278
    - scripting, 280–281
    - setup, 274
    - special effects, 280–281
    - tools, 275–277
    - user interface, 274–275
  - GNOME (GNU Network Object Model Environment) desktop
    - accessibility features, 85–86
    - accessing Windows files from Linux, 134
    - applets, 71–72, 74, 75–76
    - CD/DVD burning utility, 138
    - configuration settings, 69–70
    - described, 65
    - desktop, 66, 73, 78, 79–85
    - distributions used, 65
    - drawers, 77
    - on DVD, accompanying, 419
    - Firefox Web browser, starting, 158
    - floppy drive, handling, 133
    - icons, 66–67, 71, 73–74, 77, 82, 84
    - installing, 60
    - menus, 66, 67–70, 74, 76, 84
    - modem, configuring, 143–145
    - network drives, accessing, 134–135
    - origin, 65
    - panels, 71–73, 74–77

- GNOME (GNU Network Object Model Environment) desktop (*continued*)
    - parts, 66–67
    - programs, managing, 76–77
    - search utility, 140
    - shortcut keys, 84
    - toolbars, 84
    - in Ubuntu, 65–66
    - variation in, 66
    - Web site, 66
  - GNOME Office, 214
  - GNOME Volume Control, 250–251, 252
  - GnomeMeeting package, 177
  - GNOME-PPP package for modem connections, 143–145
  - GNU, 10, 14
  - GNU Image Manipulation Program graphics program. *See* The GIMP
  - GNU Network Object Model Environment desktop. *See* GNOME desktop
  - Google Applications, 285, 293–294
  - Google Calendar gadget, 290, 293
  - Google Desktop applet, 20, 285–286
  - Google Documents, 293
  - Google Finance, 293
  - Google Gadgets
    - adding, 292–293
    - customizing, 290–292
    - described, 285–286
    - included in gOS distribution, 286
    - installing, 286–289
    - starting, 289
    - using, 289–290
  - Google Mail, 293
  - Google Maps, 293
  - Google News gadget, 290, 293
  - Google Product Search, 293
  - Google Reader, 293
  - Google search bar, 285
  - gOS, 20, 39
  - GPL (GNU General Public License), 10, 14
  - Grand Unified Bootloader (GRUB), 52, 58, 405–406
  - graphical login manager, 355
  - graphical user interface (GUI), 313, 401, 402–404, 405
  - graphics, creating/modifying. *See* The GIMP
  - graphics hardware, troubleshooting, 400
  - graphics programs (KDE), 91
  - Group ID numbers (GIDs), 333
  - groups
    - adding, 337–338
    - creating, 383–384
    - described, 117–118
    - management tools, 332–339
    - permissions, 116
    - users, adding, 335, 336–337, 338–339, 391–392
  - GRUB (Grand Unified Bootloader), 52, 58, 405–406
  - grub.conf file settings, 405
  - Guest Additions, VirtualBox, 378
  - GUI (graphical user interface), 313, 401, 402–404, 405
  - guided partition, 46
  - gunzip program, 298, 299, 411
  - .gz files, 298
  - gzip utility, 298, 299, 411
- H ●
- hacker ethic, 13
  - hard drives. *See also* partitions
    - booting from, 54
    - defragmenting, 33–34
    - installation on second, 21, 22–23, 24–25
    - installing second, 24–25, 32
    - order, 23, 26
    - space, setting up, 21
    - use statistics, 352
  - hardware
    - compatibility, 34–38, 400
    - existing, determining, 36–38
    - files, storage location, 109
    - graphics, 400
    - recommended, 420–421
    - requirements, Linux, 12
    - status, viewing, 351–352
    - troubleshooting, 362, 400
    - Win, 36, 38
  - hardware-detection tools, 36
  - hd0 hard drive, Ubuntu, 52
  - head command, 414
  - Height button (KDE), 94
  - help
    - bash shell, 329, 411–412
    - commands, 410, 411–412
    - GNOME, 69, 74
    - help option, 319
    - KDE, 91
    - man pages, 314, 319, 329, 409

- prompts, 412
  - quick-launch icon, 71
  - Hibernate command, 69
  - hidden files, 113, 123
  - hidden wireless networks, 150–151
  - Hide/Restore Desktop Applications, 72
  - history command, 322, 411
  - HISTSIZE environment variable, 323, 324
  - Home desktop icon, 73
  - home directories, 109
  - HOME environment variable, 323
  - Home option (KDE), 91
  - hotkeys, 103, 355
  - HTML spreadsheet file format, 224
  - Human theme, 79
- 1 ●
- IcedTea Java Web Browser plugin, 266
  - IceWeasel Web browser, 158
  - ICMP filter settings, 360
  - icons
    - customizing theme, 82
    - GNOME, 66–67, 71, 73–74, 77, 82, 84
    - KDE, 100
    - Nautilus browser, 73
    - Network Manager, 150, 151
    - PackageKit package manager, 302
  - IDE hard drive service, 357
  - IM (instant messaging), 167–169, 170–173, 181, 293
  - image-burning software, 43, 54, 400
  - image scanners, compatibility, 34
  - images. *See also* The GIMP
    - controlling display of Internet, 162
    - desktop backgrounds, 82–83
  - IMAP servers, 184
  - Impress, OpenOffice.org, 214, 224–230, 293
  - Incoming Messages widget (KDE), 97
  - info command, 410
  - InfraRecorder CD image-burning software, 43
  - inodes, 413
  - input, command-line standard, 327
  - Input Actions utility (KDE), 103
  - insmod command, 417
  - installation, Linux. *See also* dual-boot systems
    - evolution, 41
    - Fedora, 42, 54, 55–61
    - hardware compatibility, 34–38
    - from included DVD, options, 42
    - making space, 26–27
    - on networks, 41
    - partitioning hard drive, 21, 22–23, 26–34
    - preparing for, 21–22
    - replacing existing OS, 21, 22
    - second hard drive, 21, 22–23, 24–25
    - space requirements, 26, 32
    - troubleshooting problems, 398–401
    - Ubuntu, 19, 43, 44–47, 48, 49–53
    - variation in, 41, 42
    - virtual, 22, 23–24
    - when running Windows and Linux together, 24
    - as Windows application, 22
  - installing widgets, 98–99
  - instant messaging (IM), 167–169, 170–173, 181, 293
  - Internet. *See also* files, sharing; Web browsers; Web sites
    - described, 157
    - downloads, 160, 161
    - instant messaging, 167–169, 170–173, 181, 293
    - Internet Relay Chat (IRC), 181
    - Linux tools, availability, 157
    - RSS reader, 181
    - surfing, 165–167
    - telephone, 177–181
  - Internet connection
    - hardware types, 142
    - testing, 141
    - troubleshooting, 150, 152–153
    - via modem, 142, 143–147, 153
    - via wired network card, 148–150, 153
    - via wireless, 150–151, 153
  - Internet programs (KDE), 91
  - Internet Relay Chat (IRC), 181
  - Internet Service Provider (ISP) information, 141–142, 183–184
  - interoperability, Linux, 11
  - interpolated string values, 326
  - IP addresses, 142, 149
  - IP version 6 (IPv6) protocol service, 357
  - ip6tables service, 357
  - iptables service, 357
  - IPv4 settings, 149
  - IRC (Internet Relay Chat), 181
  - ISO image files, 43, 54, 298, 371–372, 400
  - ISP (Internet Service Provider) information, 141–142, 183–184

## • J •

Java, enabling/disabling Internet, 163  
 JavaScript, enabling/disabling Internet, 163  
 JFS filesystem, 48  
 journaling filesystems, 48

## • K •

KDE (K Desktop Environment)  
 applications, organizing, 90  
 availability, 87  
 CD/DVD-burning software, 133  
 configuration tool, 90  
 on DVD, accompanying, 419  
 emoticons, defining, 100  
 Firefox Web browser, starting, 158  
 floppy drive, handling, 133  
 fonts, 100, 103  
 history, 87  
 icons, customizing, 100  
 installing in Fedora, 60  
 KickOff menu, 92  
 launch feedback, 101  
 launching Konqueror Web browser, 90  
 modem, configuring, 143, 145–147  
 network drives, accessing, 134–135  
 notifications, 101  
 quick-search tool, 90  
 removable media, 133  
 screen saver, 101  
 search utility, 139  
 splash screen, 100  
 System Settings utility, 90, 91, 99–103  
 user interface, 87–88, 89–95, 99–103  
 variation in, 88, 91, 92  
 Web site, 88  
 widgets, 92–99  
 kernel, Linux. *See* Linux operating system  
 kernel-module handling commands, 417  
 keyboard, system, 45  
 Keyboard & Mouse utility (KDE), 103  
 keyboard assistive features, 85–86, 102, 163, 355  
 KFind search utility, 139  
 Kget graphical FTP program, 175  
 KGet widget (KDE), 97  
 KickOff menu, 88, 89–92  
 kill command, 417  
 killall command, 417  
 KIRC IRC program, 181  
 KMail e-mail software, 193–195, 196–200

KMix volume control, 251–252  
 Knoppix LiveCD distribution, 18  
 KOffice, 214  
 Kong Profiles Applet widget (KDE), 97  
 Konqueror file manager/browser, 90, 119,  
 130–132, 134–135, 158  
 Konsole program (KDE), 112, 314–315  
 Kool Desktop Environment, 87. *See also* KDE  
 Kopete instant messaging, 170–172  
 KPackageKit, 103, 287, 301–304, 308–309  
 KPhone, 177  
 KPPP package for modem connections,  
 143, 145–147  
 KsCD, 255  
 K3b CD and DVD Kreator, 135–137, 262–264  
 KTorrent, 173, 175. *See also* BitTorrent  
 Kubuntu distribution, 87  
 KVM virtual server software, 364  
 KWallet wizard, 195  
 KWrite text editor, 207–211

## • L •

language, default, 44–45  
 laptops, compatibility, 36  
 launch feedback, KDE, 101  
 leadership in Linux development, 15  
 Left-side pointer button (KDE), 94  
 less command, 414  
 /lib directory, 109  
 libraries, storage location, 109, 111  
 licensing, software, 10  
 LimeWire file-sharing application, 181  
 Linphone, 177  
 Linspire specialized distribution, 20  
 Linux operating system  
 defined, 10  
 described, 11–12, 13  
 history, 1, 12  
 leadership, 15  
 ownership, attempts to hijack, 14  
 rebuilding, 417  
 replacing existing, 21, 22  
 running with Windows, 24–25, 26  
 upgrading, 312  
 LinuxQuestions Web site, 39, 152  
 LiveCD distribution, 16, 18–19, 22  
 ln command, 412  
 locate command, 414  
 Lock option (KDE), 92  
 Lock Screen option, 69, 187, 189, 317

Lock Widgets button (KDE), 94  
 Lock/Logout widget (KDE), 97  
 log files, 48, 360–362, 397  
 Log Out user option (Shut Down applet), 70  
 logical partitions, 26  
 Logical Volume Manager (LVM), Fedora, 58  
 login accounts, 50  
 login options, 69  
 logout options, 69, 70, 92  
 ls command, 112–115, 317, 320, 412  
 lsmode command, 417  
 Luna widget (KDE), 97  
 LVM (Logical Volume Manager), Fedora, 58

• **M** •

MAC (Media Access Control) address,  
     setting, 149  
 Macromedia Flash Player, 256  
 magnifiers, screen, 85  
 MAILCHECK environment variable, 323  
 maillog file, 362  
 man (manual) pages, 314, 319, 329, 409  
 man command, 410  
 Mandriva distribution, 17  
 manual partitions, 46–49  
 masquerading, 360  
 Master Boot Record (MBR), bootloader  
     storage in, 52  
 master devices, 25  
 Master Volume Control applet, 72  
 Math, OpenOffice.org, 214, 241–246, 247  
 MathML (MML) standard, 247  
 MBR (Master Boot Record), bootloader  
     storage in, 52  
 mcd command, 415  
 mcopy command, 415  
 mdel command, 415  
 mdeltree command, 415  
 mdir command, 415  
 mdmonitor service, 357  
 mdu command, 416  
 Media Access Control (MAC) address,  
     setting, 149  
     /media directory, 109, 110  
 Media Transfer Unit (MTU) size, setting, 149  
 memory use, viewing, 352  
 messages log file, 361, 362  
 mformat command, 416  
 Microsoft Excel spreadsheet formats, 223–224  
 Microsoft network environment, 381

Microsoft PowerPoint file format, 230  
 Microsoft Word document formats, 219  
 minimizing programs, 72  
 Minix operating system, 12  
 mkdir command, 413  
 mkfs command, 415  
 mlabel command, 416  
 mmd command, 416  
 MML (MathML) standard, 247  
 mmount command, 416  
 mmove command, 416  
     /mnt directory, 109  
 modems, 142, 143–147, 153  
 modprobe command, 417  
 more command, 329, 414  
 More Settings button (KDE), 94  
 mount command, 415  
 mount points, 49  
 mounting partitions, 49  
 mouse assistive features, 85–86, 102, 163, 355  
 mouse integration, 376  
 mouse settings, KDE, 103  
 MOV (Apple QuickTime) video format, 266, 271  
 Move to Another Workspace option, 73  
 Move to Workspace Right option, 73  
 Moving Pictures Experts Group (MPG/MPEG)  
     file formats, 271  
 moving programs between workspaces, 72, 73  
 Mozilla, 158. *See also* Firefox Web browser  
 MozPluggger plugin, 266  
 MP3 music files, 249, 259, 260  
 MPG/MPEG (Moving Pictures Experts Group)  
     file formats, 271  
 mtools, 415–416  
 MTU (Media Transfer Unit) size, setting, 149  
 multicast DNS service discovery, 356  
 multimedia hardware, compatibility, 34  
 Multimedia programs (KDE), 91, 103  
 multiplatform capability, Linux, 11  
 multiprocessor capability, Linux, 11  
 multiuser capability, Linux, 11  
 music. *See also* audio  
     CD/DVD, listening to, 133, 253–255  
     digital audio players, interfacing with, 258  
     downloaded, 255–259  
     MP3, 249, 259, 260  
     online, 256  
     RealPlayer, 249  
     ripping, 254, 260–262  
 mv command, 413

## • N •

names  
 computer, 50  
 filesystem, 108, 113  
 nameserver IP address, 142  
 Nautilus browser icons, 73  
 Nautilus file manager  
 accessing Windows files from Linux, 134  
 browser mode, 120–121, 122  
 CD/DVD burning, 137–138  
 described, 119  
 file/folder management, 123–127  
 files, compressing, 299–300  
 icon, 73  
 navigating with, 120–121, 122  
 permissions, managing, 127–128  
 programs, running, 124  
 showing hidden files, 123  
 spatial mode, 120, 122  
 starting, 121  
 view options, 122–123  
 ndiswrapper project, 150  
 netmask, 142  
 network adapters, virtual server options, 378  
 network address, 142, 149  
 network data, viewing amount, 352  
 network drives, 109, 134–135  
 Network File Sharing (NFS4) service, 360  
 Network Manager, 147, 148–150, 151  
 Network option (KDE), 91  
 network settings, proxies, 53  
 Network Settings utility (KDE), 102  
 Network Time Protocol (NTP), setting up, 63  
 NetworkManager applet, 72  
 networks, 110, 372, 373  
 neverball (game), 283  
 neverputt (game), 283  
 New Device Monitor widget (KDE), 93, 97, 133  
 NFS4 (Network File Sharing) service, 360  
 nice command, 418  
 No Wallpaper option (Appearance Preferences dialog box), 82–83  
 Notes widget (KDE), 97  
 Now Playing widget (KDE), 97  
 NTP (Network Time Protocol), setting up, 63  
 NVIDIA video drivers, 282, 283

## • O •

ODF (OpenDocument format), 247  
 ODG (OpenOffice.org Drawing) file format, 230, 234

ODP (OpenDocument Presentation) format, 230  
 ODS (OpenDocument Spreadsheet) format, 223  
 ODT (OpenDocument) format, 219  
 Office and Productivity application software (Fedora), 59  
 Office programs (KDE), 91  
 office suites, Linux, 213–214  
 .oga (Ogg Vorbis) sound format, 260  
 Only on This Workspace option, 73  
 open-source community, 15  
 open-source software, 10, 13, 14, 15  
 openarena (game), 283  
 OpenDocument file formats, 219, 223, 230, 247  
 OpenOffice.org  
 database, 214, 235–241  
 described, 213  
 drawing graphics, 214, 231–234  
 on DVD, accompanying, 419  
 installing, 214  
 math, 214, 241–246, 247  
 opening applications, 214  
 presentation graphics, 214, 224–230, 293  
 spreadsheets, 214, 219, 220–224, 293  
 word processing, 213, 214, 215, 218–219, 293  
 OpenOffice.org file formats, 223, 230, 234  
 OpenSuSe distribution, 17  
 /opt directory, 109  
 option, defined, 3  
 other, permissions, 116  
 OTP OpenOffice.org file formats, 230  
 OTS (OpenOffice.org 1.0 Spreadsheet) format, 223  
 output, command line standard, 327  
 output redirection, 327–328  
 owners, file, 116, 117

## • P •

Package Installer program, 288  
 package survey, 53  
 PackageKit package manager, 103, 287, 301–304, 308–309  
 package-manager programs  
 described, 306  
 PackageKit, 103, 287, 301–304, 308–309  
 Synaptic, 301, 304–305, 309–310  
 packages, 305, 308–310, 311–312, 364. *See also* software  
 Pager widget (KDE), 93, 97  
 Panel Editor widget (KDE), 93–94  
 parameter, defined, 3  
 partitions  
 creating, 23, 26–34, 47  
 for Linux installation, 21, 22–23, 26–34

- manual, 46–49
  - media spanning, 108
  - mounting, 49
  - order information, 23, 26
  - resizing, 28, 31–32, 47
  - swap area, 48, 49
  - types, 26, 28, 46, 48
  - viewing in Windows, 27–31
  - `passwd` command, 416
  - passwords, 56, 195, 335, 406
  - `PATH` environment variable, 323
  - pathname, Dolphin file manager, 129
  - PC Floppy Drive option (KDE), 91
  - PCI components, gathering information on, 37–38
  - PCLinuxOS LiveCD distribution, 18
  - PCLinuxOS specialized distribution, 20
  - PCM (Pulse Code Modulation), 250
  - PCMCIA (Personal Computer Memory Card International Association) cards, 36
  - `pcscd` service, 357
  - PDF files, saving to, 219, 224, 230
  - permissions, 114, 115–118, 127–128, 385–386
  - Personal Computer Memory Card International Association (PCMCIA) cards, 36
  - Personal Files option (KDE), 91
  - Picture Frame widget (KDE), 97
  - Pidgin Instant Messenger, 167–169, 293
  - `pidof` command, 418
  - `ping` program, 152–153
  - pipes, 327
  - Plasma widgets, 98–99
  - platforms supporting Linux, 11
  - plugins
    - browser, 164
    - described, 205
    - DivX Web Player, 266
    - Firefox, 266, 267–268
    - `gedit`, 202, 205–207
    - IcedTea Java Web Browser, 266
    - MozPlugger, 266
    - QuickTime, 266
    - Shockwave Flash player, 267–268
    - Totem Web Browser, 266, 271–273, 274
    - video, 266–269
    - VLC Multimedia, 266
    - Windows Media Player, 266
  - policies, printer, 346
  - POP (Post Office Protocol) servers, 142, 184
  - pop-up windows, controlling with Firefox, 162
  - portability, Linux, 11
  - porting software, 11
  - ports, 358, 359, 360, 372. *See also* firewalls, network
  - Post Office Protocol (POP) servers, 142, 184
  - power management, 356
  - PPD (Postscript Printer Description) files, selecting, 343–344
  - `ppracer` (game), 283
  - PPT (Microsoft PowerPoint) file format, 230
  - Preferences dialog box applet, 76
  - Presentation application, 214, 224–230, 293
  - primary key, database, 240
  - primary partitions, limitations, 26
  - print classes, 340
  - Printer Configuration tool
    - adding print classes, 340
    - adding printers, 340, 342–344
    - connection types, 342–343
    - customizing printers, 340, 344–348
    - described, 333
    - server settings, 340, 341–342
    - starting, 339
    - user interface, 340
  - printers, 110, 346
  - printing, Linux history, 339
  - `proc` directory, 109
  - processes, viewing active, 349–351, 354–357
  - processes commands, 417–418
  - profile settings, 326
  - program, defined, 3
  - programming
    - `gedit` text editor, 201, 202–207
    - KWrite text editor, 207–211
    - in shells, 326
  - programs, software. *See* software
  - prompts, help, 412
  - prompts, shell, 316, 317
  - proxy servers, 102, 163
  - `ps` command, 418
  - `PS1` environment variable, 323, 324–325
  - `pstree` command, 418
  - Pulse Code Modulation (PCM), 250
  - Puppy Linux distributions, 18, 19, 20
  - `pwd` command, 413
- 0 •
- QT (Apple QuickTime) video format, 271
  - queries, database, 239
  - question mark (?) wildcard, 320
  - quick-launch icons, GNOME, 71
  - quick-search tool (KDE), 90
  - QuickTime plugin, 266

## • R •

Rawhide repository, 59  
 read permissions, 116  
 readers, screen, 85  
 Really Simple Syndication (RSS) readers, 181  
 RealNetworks (RM) video file format, 271  
 RealPlayer, 249  
 recovery, rescue mode, 54  
 Red Hat distribution, 17  
 Red Hat Enterprise Linux, hardware  
   compatibility, 34–35  
 redirection, 327–328  
 Regional & Language settings (KDE), 102  
 ReiserFS filesystem, 48  
 remote computer access, 102  
 removable media, 92, 93, 109–110, 132–133, 378  
 renice command, 418  
 repositories, 59, 98–99  
 rescue mode, Fedora option for, 54  
 reset command, 329  
 resolution, troubleshooting screen, 404  
 Restart command, 69  
 Restart option (KDE), 92  
 restoring programs, 72  
 Rhythmbox, 253–254, 255, 259, 260  
 Rich Text (RTF) format, 219  
 ripping music tracks, 254, 260–262  
 rm command, 413  
 RM (RealNetworks) video file format, 271  
 rmdir command, 413  
 rmdir command, 417  
 root directory (/), 108, 109  
 root login account, 50, 56  
 root mount point (/), 49  
 Root option (KDE), 91  
 root user, 70, 109, 402, 406  
 .rpm files, 298, 300  
 rpm program, 298  
 RSS (Really Simple Syndication) readers, 181  
 RTF (Rich Text) format, 219

## • S •

Samba communication software  
 accessing Windows files from, 135  
 availability, 382  
 configuration, 110, 389–390

described, 381, 382  
 distributions, variations in, 382  
 on DVD, accompanying, 419  
 file access, 382  
 groups, assigning users to, 391–392  
 installation, 386–388  
   preliminary steps before installation, 383–386  
 shared folders, 394–396  
 sharing policy, 382–383  
 troubleshooting, 135, 396  
 user account creation, 392–393  
 Samba service, 360  
 sandbox, virtual server, 364, 367, 370–373  
 /sbin directory, 109  
 scalability, Linux, 11  
 scanners, compatibility, 34  
 scorched3d (game), 283  
 Screen Edge button (KDE), 94  
 screen magnifiers, 85  
 screen readers, 85  
 screensavers, 70–71, 101  
 script, defined, 3  
 scripting language, GIMP, 280–281  
 scripting, shell, 326  
 SDA StarDraw file format, 234  
 SDD StarDraw file format, 234  
 SDD StarImpress file format, 230  
 search path, 321  
 searching, 139–140  
 Second Life online game, 284  
 secure log file, 362  
 security  
   active services, minimizing, 354–357  
   802.1x settings, 149  
   e-mail, 184, 187, 188, 197, 200  
   Lock Screen option, 69, 187, 189, 317  
   log files, 48, 360–362, 397  
   password, 335  
   software updates, 353–354  
   updates, Fedora, 301–302  
   selecting multiple items, 74  
 sendmail service, 357  
 serial ports, virtual server setup, 372  
 Services Settings, Ubuntu, 355–356  
 Services tool, Fedora, 356–357  
 Session Initiation Protocol (SIP), 177  
 SetGID (SGID) executable files, 113  
 Settings programs (KDE), 91  
 SetUID (SUID) executable files, 113

- Setup information, computer, 24–25, 37–38
- SGID (SetGID) executable files, 113
- shell, 314
- shares, described, 382
- Sharing utility (KDE), 102
- shell scripting, 326
- shells. *See also* bash shell
  - command syntax, 325, 326
  - described, 313–314
  - programming in, 326
  - prompts, 316, 317
  - selecting, 335
  - starting programs, 319
  - types, 313
  - wildcards, 320
- Shockwave Flash player plugin, 267–268
- shortcut menu, 74, 76
- Show Dashboard widget (KDE), 97
- Show Desktop widget (KDE), 97
- Shut Down commands (GNOME), 69, 70, 72
- Shutdown option (KDE), 92
- shutdown process, 110
- Simple Mail Transport Protocol (SMTP), 142, 184, 360
- SimplyMEPIS distributions, 18, 20
- single dot (.) directories, 115
- single quotes (') in shell commands, 325, 326
- SIP (Session Initiation Protocol), 177
- Skype, 177, 179–181, 293
- Slackware distribution, 17
- slave devices, 25
- Slax LiveCD distribution, 18
- SLK (Symbolic Link) format, 224
- slow keys, 86
- slow mouse clicks, 85
- smart card reader service, 357
- smartd service, 357
- SMTP (Simple Mail Transport Protocol), 142, 184, 360
- software
  - active, viewing, 354–357
  - adding, 103, 305–310
  - add/remove, 306, 307–308
  - applications, described, 305
  - automated, 110
  - bringing to front, 72
  - configuration files, 110
  - copyright, 14
  - finding, 181, 310–312
  - free, 9–10
  - image burning, 43, 54, 400
  - installation, 58–61
  - licensing, 10
  - local, storage location, 111
  - minimizing, 72, 354–357
  - moving between workspaces, 72, 73
  - open-source, 10, 13, 14, 15
  - porting, 11
  - repositories, 59
  - restoring, 72
  - services, enabling/disabling, 356–357
  - shared, 111
  - starting from shell, 319
  - storage location, 109, 111
  - updating, 103, 353–354
  - virtual servers, 364
- Software Development application software (Fedora), 59
- software packages, 305, 308–310, 311–312, 364
- software RAID services, 357
- Software Repositories option, Fedora, 59
- sound cards, 34, 252–253, 372. *See also* audio
- Sound Juicer, 260–262
- Sound Preferences dialog, 252, 253
- source code, described, 14
- spam (unsolicited commercial e-mail), filtering, 192, 199–200
- spamassassin, 357
- SpamBayes spam filtering program, 199
- specialized distributions, 19–20
- splash screen, KDE, 100
- /srv directory, 109
- SSH service, 360
- stability, Linux, 12
- Stallman, Richard, 13–14
- standard error (stderr), 327
- standard input (stdin), 327
- standard output (stdout), 327
- StarDraw (SXD) file format, 230
- StarImpress (SDD) file format, 230
- StarOffice, 214, 219, 224
- startx command, 402
- stat command, 413
- stderr (standard error), 327
- stdin (standard input), 327
- stdout (standard output), 327
- sticky keys, 85, 86
- Straw RSS program, 181
- su command, 416
- submenus, adding, 77

sudo command, 402  
 SUID (SetUID) executable files, 113  
 Sun VirtualBox. *See* VirtualBox, Sun  
 superuser, 70, 109, 402, 406  
 support for accompanying DVD, 422  
 supported, defined, 35  
 Suspend to Disk option (KDE), 92  
 swap area partition, 48, 49  
 swap space use, viewing, 352  
 switch, defined, 3  
 Switch User option (KDE), 92  
 SXD (OpenOffice.org graphics) file format, 234  
 SXD (StarDraw) file format, 230  
 SXM StarOffice file format, 247  
 Symbolic Link (SLK) format, 224  
 Synaptic Package Manager, 301, 304–305, 309–310  
 Synaptic Update System, 312  
 sync command, 415  
 /sys directory, 109  
 System Bell, KDE, 101  
 system commands, 416–418  
 system communication bus, 356  
 System Information option (KDE), 91  
 System Log Viewer, 360–361  
 System Monitor, 97, 349–352  
 System Notifications, (KDE), 101  
 System programs (KDE), 91  
 System Settings utility (KDE), 90, 91, 99–103  
 System Tray widget (KDE), 93, 97  
 system-config-display program, 401

## • T •

tabbed browsing, Firefox Web browser, 166–167  
 .tar files, 298, 299  
 tar program, 298, 299, 411, 414  
 tarballs, 297–298, 299, 312  
 Task Manager widget (KDE), 93, 97  
 taskbar, 72  
 telephone over Internet, 177–181  
 temporary files, location, 109  
 terminal applications, 314, 316–317, 319  
 Terminal program (GNOME), 112, 314, 315  
 text editing applications. *See also* word  
   processing applications  
     gedit, 201, 202–207  
     KWrite, 207–211  
   .tgz files, 299  
 themes, browser, 164  
 themes, desktop, 79, 80–82

tilde (~) in shell prompts, 316, 317  
 time server, 62  
 time zone, system, 45  
 /tmp directory, 109  
 tomshardware Web site, for hardware  
   compatibility information, 35  
 tools, defined, 3  
 top command, 418  
 Torvalds, Linus, 1, 12, 15  
 Totem Web Browser plugin, 266, 271–273, 274  
 touch command, 413  
 transferring data from old OS to Linux, 22  
 Transmission software package, 173, 174. *See also* BitTorrent  
 Trash Can, 72, 73–74  
 Trash folder, 126–127  
 Trash option (KDE), 91  
 Trashcan widget (KDE), 97  
 troubleshooting  
   audio, 249–253  
   boot process, 402–404, 405–406  
   CD/DVD distribution media, 43, 399–400, 422  
   display, 362, 404  
   dual-boot systems, 405–406  
   DVDs, 43  
   e-mail, 362  
   file sharing, 396  
   graphical user interface, 401, 405  
   graphics hardware, 400  
   GRUB, 405–406  
   hardware, 362  
   installation, 398–401  
   instant messaging, 172–173  
   Internet connection, 150, 152–153  
   password, forgotten, 406  
   process, 397–398  
   Samba communication software, 135, 396  
   system, 97, 349–352  
 trusted interfaces, controlling, 359  
 trusted services, controlling, 359  
 tune2fs command, 415  
 Twitter Microblogging widget (KDE), 97

## • U •

Ubuntu distributions, described, 16, 20  
 Ubuntu LiveCD distribution. *See also* Windows  
   Ubuntu Installer  
     adding software, 307–308, 309–310  
     availability, 38

- booting, 44, 52
- described, 18
- desktop, 73, 95
- dual-boot option, 24
- on DVD, accompanying, 419
- firewall, 358
- fonts, 83–84
- Google Gadgets, installing on, 288–289
- installation, 19, 43, 44–47, 48, 49–53
- popularity, 42
- preliminary steps, 42
- Samba availability, 382
- space requirements, 47
- System Settings utility, 99
- trying out, 19, 44
- updating, 304–305
- upgrading, 312
- video drivers, 282
- Ubuntu 9.04 distribution, availability, 1
- Ubuntu Project online resources, 39
- Ubuntu User Manager tool, 332
- ufw Ubuntu firewall, 358
- UIDs (User ID numbers), 333, 335
- umount command, 415
- unalias command, 411
- unallocated partitions, 28
- uncompress program, 299, 411
- universal Linux machines, files for, 111
- UNIX operating system, history, 12, 13
- Unmount option for removable media, 132
- unsolicited commercial e-mail (spam), filtering, 192, 199–200
- unzip program, 299, 411
- Update manager, Ubuntu, 304–305
- updates
  - Firefox Web browser, 164
  - Linux, 300–305
- USB devices, 92, 93, 109–110, 132–133, 378
- user accounts, 72, 109, 390–392
- User ID numbers (UIDs), 333, 335
- user managers, 332–339
- User Switcher applet, 72
- users group, 117–118
- /usr directory, 109, 111
- utilities, defined, 3
- Utilities programs (KDE), 91

## • U •

- /var directory, 109
- variables, shell, 322–323, 324–326
- vector graphics, described, 232
- video, 133, 265, 266–269, 270–273
- video cards, 34, 35, 282
- video games, 90, 111, 282–284, 419
- video programs, settings, 103
- virtual installation, using virtual-server software, 22, 23–24
- virtual servers, 363–364. *See also* VirtualBox, Sun
- virtual terminal window, 316–317, 319
- VirtualBox, Sun. *See also* installation, virtual backups, 377
  - control, switching between virtual server and host system, 376
  - described, 23, 364
  - downloading, 365
  - Guest Additions, 378
  - installing, 364, 365–366
  - operating system, installing, 373–375
  - operating system shutdown, 374
  - options, 376–378
  - servers, creating, 367–370
  - servers, setup, 370–373
  - starting, 366
  - user interface, 366, 370, 375–378
  - versions, 365
- VLC Multimedia plugin, 266
- VMWare, 23. *See also* installation, virtual
- VMWare Server, 364
- Volume Control applications, 250–251
- volunteers, contributing, 15

## • W •

- wallpaper, desktop, 82–83
- wc command, 413
- Weather Globe Google gadget, 290, 291–292
- Web Browser option (KDE), 90
- Web browsers, 157–158. *See also* Firefox Web browser
- Web clips, 133, 265, 266–269, 270–273
- Web Server application software (Fedora), 59

## Web sites

- CheapBytes, 420
- desktop theme resources, 80
- Digital Millennium Copyright Act, 274
- Dr. Hardware detection tool, 36
- Fedora, 274, 282, 420
- filesystem standards, 108
- Firefox, 158, 267, 269
- games, 283, 284
- Google Gadgets, 287, 288
- gOS Project, 39
- hardware compatibility information, 35, 36
- Linux community, 38–39
- LinuxQuestions, 39, 152
- MathML, 247
- Mozilla, 158
- office suites, 214
- software, finding, 310–311
- telephone over Internet, 177
- trusted, 354
- Ubuntu, 420
- video tools, 266, 271, 282
- virtual server, 364
- `what is` command, 410
- `which` command, 414
- widgets, KDE, 92–99
- wikis, 39
- wildcard expansion, 320
- Win hardware, 36, 38
- window borders, customizing theme, 82
- Windows, running together with Linux, 24–25, 26
- Windows 98 OS, 29–31, 34, 36
- Windows 2000 OS, 28–29
- Windows application, installation of Linux as, 22
- Windows Media Player plugin, 266
- Windows Media Video (WMV) video format, 266, 271
- Windows Ubuntu Installer (Wubi), 24, 42, 53
- Windows Vista, 27–28, 33, 36

- Windows XP, 28–29, 33, 36

- Winzip program, 299

- wireless card compatibility, 34

- wireless networks, 150–151, 152–153

- wireless signal meter gadget, 290

- WMV (Windows Media Video) video format, 266, 271

- word processing applications, 201, 219. *See also*

- Writer, OpenOffice.org

- Workspace Switcher, 72, 73

- workspaces, moving programs between, 72, 73

- wrapping of command lines, 3

- write permissions, 116

- Writer, OpenOffice.org, 213, 214, 215, 218–219, 293

- w32codec, 266

- Wubi (Windows Ubuntu Installer), 24, 42, 53

- WWW services, 360



- X Window System (X), 110, 111

- Xandros specialized distribution, 20

- X-Chat IRC program, 181

- XFS filesystem, 48

- X.org.0.log file, 362



- YouTube, 267, 293

- yum software installer, 282–283, 298, 300, 357



- .z files, 299

- .zip files, 299

- zip program, 299, 411