

Contents

| | |
|--|----|
| About This Book | 1 |
| Introduction..... | 1 |
| How this book is organized..... | 4 |
| Notational conventions used in this book | 5 |
| Getting the most from this book..... | 7 |
| About the recommendations made in this book | 7 |
| About the Warning and Disclaimer | 8 |
| About your license to use this book..... | 8 |
| Acknowledgements | 8 |
| | |
| Getting Started with Mac OS X | 10 |
| | |
| Moving to Mac OS X | 11 |
| Planning the move to Mac OS X | 11 |
| How you install Mac OS X is a key to stability | 12 |
| Adjusting to Mac OS X | 13 |
| Related Links..... | 15 |
| | |
| Upgrading from Jaguar to Panther | 16 |
| Avoiding known Panther installation problems | 16 |
| Selecting a Panther installation option | 17 |
| The author's Panther upgrade process | 18 |
| Avoiding known post-installation problems..... | 19 |
| Adjusting to Panther | 19 |
| Feature comparisons and tours | 19 |
| Significant changes from Jaguar..... | 20 |
| Related links | 23 |
| | |
| Learning Mac OS X | 24 |
| Books..... | 24 |
| Online help | 24 |
| Training..... | 24 |
| Web sites..... | 25 |
| Apple User Groups | 25 |
| To get deeper into Mac OS X | 26 |
| Related links | 26 |
| | |
| Maintaining Mac OS X | 27 |
| Weekly | 27 |
| Monthly | 27 |
| As needed | 28 |

| | |
|---|----|
| Running Mac OS X Maintenance Scripts | 29 |
| The easy way | 29 |
| The Terminal way | 29 |
| Reviewing the logs from maintenance scripts | 30 |
| Checking when the maintenance scripts last ran | 31 |
| Related links | 32 |
| Upgrades: Planning, Researching, Buying, and Installing..... | 33 |
| Planning upgrades..... | 33 |
| Can my Mac be upgraded?..... | 33 |
| Will the upgrade affect my warranty?..... | 34 |
| Who should install the upgrade?..... | 34 |
| Researching upgrades | 34 |
| Buying upgrades..... | 36 |
| Installing upgrades | 36 |
| Related links | 37 |
| Moving to a New Mac | 39 |
| Moving to a new Mac: step-by-step..... | 40 |
| Connect and copy procedures..... | 42 |
| Connect and copy using a network..... | 42 |
| Connect and copy using FireWire Target Disk Mode..... | 43 |
| Folders to copy to the new Mac..... | 44 |
| Related links | 45 |
| Providing Feedback | 46 |
| <hr/> Prevention and Preparation..... | 47 |
| An Ounce of Prevention..... | 48 |
| General advice for all Mac users | 48 |
| Additional advice for laptop users..... | 49 |
| Backup and Recovery | 51 |
| Backup and recovery basics..... | 51 |
| Why you need a backup and recovery solution | 51 |
| What should you backup and when should you do it?..... | 51 |
| The author's backup and recovery solution | 51 |
| Implementing backup and recovery in Mac OS X | 56 |
| Implementing backup and recovery in Mac OS 9..... | 61 |
| Related links | 62 |
| Create a Test ID..... | 64 |
| Related links | 65 |
| Disk Utilities | 66 |
| About disk utilities..... | 66 |
| Recommended disk utilities..... | 68 |
| Which disk utilities should I buy?..... | 70 |
| Using Mac OS 9-based disk utilities on Mac OS X..... | 70 |
| Related links | 71 |
| Error Codes..... | 73 |
| Lists of system error codes..... | 73 |
| Finding unlisted error codes | 73 |

| | |
|--|-----|
| Related Links..... | 74 |
| Creating a First Aid Folder | 75 |
| Why create a First Aid folder? | 75 |
| Implementing a First Aid folder..... | 75 |
| Example of a First Aid folder..... | 77 |
| Related links..... | 78 |
| Obtaining Help Online..... | 79 |
| Questions about using your Mac | 79 |
| Questions about third-party applications | 79 |
| Questions not answered in Mac Help..... | 79 |
| Guidelines for creating good Discussions posts | 80 |
| Other sources of help online..... | 81 |
| Tips for using the AppleCare Knowledge Base | 81 |
| Related Links..... | 82 |
| Organizing Information About Your Mac..... | 83 |
| Organize computer and peripheral information | 83 |
| Protect important CDs | 83 |
| Keep a Mac Diary | 84 |
| Protecting Against Power Problems | 86 |
| Why protect against power problems? | 86 |
| Protecting against power outages | 86 |
| Protecting against power surges | 89 |
| Recovering from power problems..... | 90 |
| Related Links..... | 91 |
| Security | 92 |
| Security in Mac OS X | 92 |
| Apple security updates | 93 |
| Physical security | 93 |
| Temporarily locking your Mac with the screen saver | 93 |
| Passwords | 93 |
| Choosing a secure password..... | 94 |
| The Open Firmware Password | 94 |
| The Master Password | 94 |
| Changing and resetting passwords..... | 95 |
| Resolving common password problems | 95 |
| Keychains..... | 96 |
| Anti-virus protection..... | 97 |
| Network security | 97 |
| AirPort network security | 97 |
| Routers | 98 |
| Firewalls | 98 |
| Virtual Private Networks..... | 99 |
| Data security..... | 101 |
| Encrypted disk images..... | 101 |
| FileVault | 101 |
| Protecting Classic System files | 103 |
| Selling your Mac or a hard drive | 103 |
| Restricting user capabilities..... | 103 |
| Related links | 104 |

| | |
|---|------------|
| Troubleshooting Mac OS X: A-Z..... | 106 |
| General Mac OS X Troubleshooting | 109 |
| The last change you made is usually the cause..... | 109 |
| If you suspect a software problem..... | 110 |
| If you suspect a hardware problem..... | 110 |
| Use your warranties and support agreements..... | 111 |
| Seek help online | 111 |
| Apple System Profiler | 113 |
| Launching Apple System Profiler..... | 113 |
| Troubleshooting Apple System Profiler | 114 |
| Apple System Profiler quits unexpectedly or while "Gathering..." | 114 |
| Apple System Profiler identifies ATI video cards as "ATY"..... | 114 |
| Modem information is either incorrect or missing | 114 |
| Slots containing RAM appear as empty in Apple System Profiler..... | 115 |
| USB-connected Palm OS-based devices do not appear in Apple System Profiler..... | 115 |
| Saving a text report from Apple System Profiler..... | 115 |
| Related links | 116 |
| Applications | 117 |
| Applications in Mac OS X..... | 117 |
| Mac OS X applications..... | 117 |
| UNIX applications | 119 |
| Microsoft Windows applications..... | 119 |
| Installing applications | 119 |
| Where to install applications | 119 |
| How to install applications..... | 119 |
| Installation log files..... | 120 |
| Associating files with applications | 121 |
| How Mac OS X associates files with applications..... | 121 |
| How Finder handles file and application associations | 122 |
| Changing the default application associated with a file | 123 |
| Opening a file in an application other than its default application..... | 125 |
| Application preferences files..... | 126 |
| Preferences file locations | 126 |
| Preferences file names | 127 |
| Deleting application preferences files | 127 |
| Editing application preferences files | 128 |
| Troubleshooting applications..... | 128 |
| Is the problem specific to one user or all users?..... | 128 |
| Using the troubleshooting tables..... | 129 |
| Resolving common problems with applications..... | 129 |
| An application fails to launch | 129 |
| An application quits unexpectedly..... | 130 |
| Applications quit unexpectedly when printing | 130 |
| Multiple applications fail to launch or quit unexpectedly | 131 |
| Multiple Internet-related applications fail to launch | 131 |
| Applications are slow to launch or open | 132 |
| Some files open in the wrong application | 132 |
| Many or most files open in the wrong application | 132 |
| Applications' preferences have been reset to default values..... | 134 |
| All users must register a previously-registered application..... | 134 |
| Application opens in Classic mode | 134 |
| Application does not open in Classic mode | 135 |

| | |
|---|------------|
| An application is unresponsive | 136 |
| Multiple applications are unresponsive | 136 |
| Application will not install | 137 |
| System is slow or unresponsive during application installation | 137 |
| Reinstalling an application bundled with Mac OS X | 138 |
| Reinstalling an application that was preinstalled on your Mac | 138 |
| Preventing problems with applications | 139 |
| Finding new applications | 139 |
| Uninstalling applications | 139 |
| Related links | 140 |
| Archive and Install..... | 142 |
| Why use Archive and Install | 142 |
| Who cannot use Archive and Install | 142 |
| Caveats for Archive and Install..... | 142 |
| Performing an Archive and Install..... | 144 |
| Related links | 145 |
| AVI and DivX Files | 146 |
| About AVI and DivX files..... | 146 |
| Playing AVI and DivX files on Mac OS X | 146 |
| Related links | 147 |
| BSD Subsystem Installation Procedure..... | 149 |
| Determining if the BSD Subsystem is installed | 149 |
| Installing the BSD Subsystem after Mac OS X..... | 149 |
| Burning CDs and DVDs..... | 151 |
| Steps to successfully burning optical media..... | 151 |
| First consider how the disc will be used after it is burned..... | 151 |
| Preparing to burn | 152 |
| Know the limitations of your SuperDrive | 153 |
| Burning basics | 153 |
| Burning in Mac OS X | 153 |
| Burning in iTunes | 154 |
| Restricting who can burn optical media | 154 |
| Resolving common burning problems | 154 |
| Common Mac OS X burning problems | 154 |
| You cannot burn a CD or DVD..... | 154 |
| Error codes or alert messages -34 or -36 when burning | 155 |
| Error codes -214nnnnnnn | 155 |
| Unknown Error alert while burning under Panther..... | 156 |
| Common iTunes burning problems | 156 |
| You cannot burn a CD with iTunes | 156 |
| Error code -50 when burning a CD in iTunes | 156 |
| Disk Utility finds problems with burned discs under Jaguar | 156 |
| Optical media do not mount or appear on the desktop | 156 |
| Problems with DVD-Rs burned with third-party devices under Jaguar | 157 |
| Problems with DVD-RAM discs | 157 |
| Recovering from a failed burn | 157 |
| Unsupported burners | 157 |
| Related links | 158 |
| Cache Cleaning..... | 161 |
| Related links | 162 |

| | |
|---|-----|
| Classic | 163 |
| About Classic..... | 163 |
| Troubleshooting Classic | 164 |
| Classic fails to launch | 164 |
| Classic cannot start because it is already running alert..... | 165 |
| Classic is slow to launch | 165 |
| Classic applications are slow to launch | 165 |
| Related links | 166 |
| Console and Crash Logs | 168 |
| Troubleshooting with Console | 168 |
| Console in Panther | 168 |
| Console in Jaguar | 169 |
| Using and interpreting Console messages | 170 |
| Examining some common messages | 170 |
| Crash logs | 174 |
| Viewing crash logs | 174 |
| Crash reporting | 175 |
| Using and interpreting crash logs | 176 |
| Obtaining help with crash logs | 179 |
| Related links | 179 |
| Data Recovery | 181 |
| Data loss scenarios | 181 |
| You trashed important files but have not emptied the Trash..... | 181 |
| You trashed important files and emptied the Trash..... | 181 |
| You initialized your hard drive | 182 |
| Your hard drive has crashed or your Mac is severely damaged | 182 |
| Data recovery utilities | 182 |
| Data recovery services | 183 |
| Related links | 183 |
| Disk Copy | 184 |
| Troubleshooting Disk Copy | 184 |
| Disk Copy fails to launch, quits unexpectedly, or hangs | 184 |
| Disk images fail to mount..... | 187 |
| Disk Copy will not burn a disk image in MS-DOS format..... | 188 |
| Alternatives to Disk Copy for mounting images..... | 188 |
| Related links | 188 |
| Disk Images..... | 189 |
| Creating and using disk images in Panther..... | 189 |
| Troubleshooting disk images..... | 190 |
| Disk images fail to mount..... | 190 |
| Disk Utility will not burn a disk image in MS-DOS format | 190 |
| Workarounds for Disk Copy functions omitted from Disk Utility | 190 |
| Disabling checksum verification..... | 190 |
| Third-party utilities for creating disk images..... | 190 |
| Related links | 191 |
| The Dock | 192 |
| Living with the Dock..... | 192 |
| Troubleshooting the Dock..... | 193 |
| Dock trouble? Delete its preferences | 193 |
| I dropped 1,000 image files in the Dock! Now what?..... | 193 |

| | |
|---|------------|
| Application launch problem? Replace its icon in the Dock | 194 |
| Related Links..... | 194 |
| Erase and Zero Data..... | 195 |
| About Erase and Zero Data..... | 195 |
| Utilities for Erase and Zero Data | 195 |
| Using Erase and Zero Data on your Mac OS X boot volume | 196 |
| Using Erase and Zero Data on other hard drives | 196 |
| How long does it take to Erase and Zero Data on a hard drive? | 196 |
| Performing Erase and Zero Data | 197 |
| Related links..... | 198 |
| Fast User Switching | 199 |
| About Fast User Switching | 199 |
| Enabling Fast User Switching | 199 |
| Restrictions of Fast User Switching | 199 |
| Performance and Fast User Switching | 201 |
| Troubleshooting Fast User Switching | 201 |
| Cube effect does not appear when switching users | 201 |
| Internet connection drops when switching users | 202 |
| Ripping audio CDs in iTunes fails when switching users..... | 202 |
| Related links..... | 202 |
| Fax | 204 |
| About Fax | 204 |
| Fax basics..... | 204 |
| Learning about Fax | 204 |
| Is Fax ready for prime time? | 205 |
| Troubleshooting Fax..... | 205 |
| Problems resolved in Mac OS X 10.3 Updates..... | 205 |
| Fax is not sent..... | 205 |
| There was a software fax error alert | 205 |
| Problems addressing faxes..... | 205 |
| Problems forwarding faxes | 206 |
| Problems with multipurpose fax-and-telephone devices..... | 206 |
| Fax sharing | 206 |
| Fax-related sleep problems | 206 |
| Using Fax with third-party fax solutions | 206 |
| Related links..... | 207 |
| Find by Content | 208 |
| About Find by Content | 208 |
| Using Find by Content | 208 |
| Indexing disks, volumes, and folders | 209 |
| Files included in the index..... | 209 |
| Where the index is saved..... | 210 |
| Content indexing differences from prior versions of Sherlock..... | 210 |
| Recommendations for using Find by Content..... | 211 |
| Troubleshooting a failed indexing operation..... | 211 |
| Related links..... | 214 |
| Finder..... | 216 |
| Significant Finder design changes in Panther | 216 |
| Connecting to Servers | 216 |
| Handling of hard disks not connected via the ATA bus | 216 |

| | |
|---|------------|
| Troubleshooting Finder..... | 217 |
| Finder is slow when moving or copying many files | 217 |
| Finder stops responding | 217 |
| Finder quits unexpectedly | 218 |
| Finder quits unexpectedly or repeatedly after login | 220 |
| Finder quits unexpectedly after Control-clicking an object..... | 220 |
| Finder returns error code -10660 when opening a document..... | 221 |
| Unable to Drag and Drop objects under Jaguar | 221 |
| Unable to clear Recent Folders under Jaguar | 223 |
| The Apple > Recent Items menu is not working..... | 223 |
| The Finder > Services Menu is blank or empty..... | 223 |
| Ejecting a partition ejects the entire disk..... | 224 |
| Get Info comments from Mac OS 9 do not appear in Mac OS X | 225 |
| Get Info comment changes are not saved on remote volumes | 225 |
| Where is my Favorites folder under Panther? | 225 |
| Related links..... | 226 |
| FireWire Problems..... | 227 |
| Data loss on FireWire drives under Panther..... | 227 |
| FireWire devices fail to mount | 228 |
| Unable to start up or boot from a FireWire drive | 229 |
| FireWire drive mounts in Mac OS X, not Mac OS 9 | 229 |
| Problems copying large files to FireWire drives | 230 |
| Slow data transfer when videoconferencing..... | 231 |
| Ejecting a FireWire volume prompts for Admin password | 231 |
| Related links..... | 232 |
| Floppy Disk Drive Problems..... | 233 |
| Are floppies dead?..... | 233 |
| Floppy drive support in Mac OS X | 233 |
| Floppy drive performance in Mac OS X..... | 233 |
| Formatting floppy disks with Disk Utility | 234 |
| Related links..... | 234 |
| Fonts..... | 235 |
| Font management in Mac OS X | 235 |
| Learning about font management in Mac OS X..... | 235 |
| Font-management applications for Mac OS X | 236 |
| Font-management applications and System fonts..... | 236 |
| Previewing uninstalled fonts | 237 |
| Troubleshooting font problems | 238 |
| Corrupted fonts | 238 |
| Font cache corruption | 239 |
| Incompatible fonts..... | 239 |
| Mac OS 9 fonts | 239 |
| Missing or disabled fonts | 240 |
| Resolving common font problems..... | 240 |
| Applications quit or behave unexpectedly after installing HP printer software | 240 |
| Microsoft Office v.X for Mac quits unexpectedly | 240 |
| Terminal window only displays the upper-left corner | 241 |
| Related links..... | 242 |
| Font Book..... | 243 |
| Before using Font Book..... | 243 |
| Avoiding common problems with Font Book | 244 |

| | |
|--|------------|
| Problems from installing, enabling, or disabling fonts | 244 |
| Problems associated with removing fonts..... | 245 |
| Problems from incorrectly resolving duplicate fonts..... | 246 |
| Related links..... | 246 |
| Freeing Space on Your Mac OS X Boot Volume | 247 |
| Determining available space on your hard drive | 247 |
| Simple ways to free space..... | 247 |
| More ways to save space if you have a spare partition or a second hard drive | 248 |
| Related Links..... | 249 |
| Freezes and Hangs..... | 250 |
| Troubleshooting freezes and hangs | 250 |
| An application is unresponsive, frozen, or hung | 250 |
| Your Mac is unresponsive, frozen, or hung..... | 250 |
| Killing processes remotely using SSH..... | 251 |
| Manually forcing a shut down or restart..... | 256 |
| Forcing a shutdown..... | 256 |
| Forcing a restart..... | 256 |
| Recovering from a manual shut down or restart..... | 257 |
| Determining the cause of a freeze or hang | 257 |
| Resolving persistent application freezes..... | 257 |
| Resolving persistent System freezes..... | 257 |
| Related links..... | 258 |
| Hard Drive Sleep..... | 259 |
| About hard drive sleep..... | 259 |
| To sleep or not to sleep? | 259 |
| Energy Saver preferences and hard drive sleep | 260 |
| Issues with hard drive sleep | 261 |
| Hard drive sleep and the Spinning Beach Ball of Death | 261 |
| Hard drive sleep and secondary hard drives | 261 |
| Hard drive sleep and other storage devices | 262 |
| Resolving issues with hard drive sleep..... | 262 |
| Related links | 264 |
| Hardware Testing..... | 265 |
| Apple Hardware Test | 265 |
| Micromat TechTool Deluxe | 266 |
| Micromat TechTool Pro | 266 |
| USB software debuggers..... | 266 |
| Related Links..... | 266 |
| Help Viewer | 268 |
| Help Viewer quits on launch | 268 |
| Help Viewer quits unexpectedly under Panther..... | 270 |
| Help Viewer quits unexpectedly under Jaguar | 270 |
| Help Viewer displays Jaguar Help instead of Panther Help | 271 |
| Help Viewer is slow to launch or when searching | 271 |
| Help Viewer links do not work | 272 |
| Help Viewer does not display a search field | 272 |
| Help Viewer does not list Help for a specific application | 273 |
| Related links | 273 |
| Isolating Troublesome Peripherals..... | 274 |

| | |
|---|------------|
| Related links | 274 |
| Kernel Panics..... | 276 |
| About kernel panics | 276 |
| Causes of kernel panics | 277 |
| General causes of kernel panics..... | 277 |
| Known causes of kernel panics | 277 |
| Troubleshooting kernel panics..... | 278 |
| Resolving kernel panics with known causes..... | 279 |
| Using and interpreting panic logs | 280 |
| About panic logs | 280 |
| Examples of troubleshooting with panic logs | 282 |
| Obtaining help with panic logs | 287 |
| Related links | 288 |
| Keyboards and Keyboard Shortcuts | 290 |
| Keyboard shortcuts..... | 290 |
| Lists of keyboard shortcuts | 290 |
| Customizing keyboard shortcuts | 290 |
| General keyboard troubleshooting | 291 |
| Resolving common keyboard problems | 293 |
| Eject or Volume keys do not work | 293 |
| Images of keys appear on the screen while typing | 293 |
| Keyboard layout changes at startup under Jaguar | 293 |
| Long delay between pressing keys and characters appearing | 294 |
| The numeric keypad is not working | 294 |
| Open Firmware Password is not recognized | 294 |
| A single key fails to work | 294 |
| Sounds accompany typing | 295 |
| Startup keyboard shortcuts do not work | 295 |
| Using function keys on laptops | 295 |
| No visual feedback when pressing the Brightness, Eject, or Volume keys..... | 296 |
| Volume key behaves erratically under Jaguar | 296 |
| Volume keys do not provide audible feedback..... | 297 |
| Where is Key Caps in Panther? | 297 |
| Related links | 297 |
| Login..... | 298 |
| Troubleshooting login problems | 298 |
| General login troubleshooting | 298 |
| If you are using automatic login..... | 298 |
| Check Startup Items or Login Items | 298 |
| Resolving common login problems | 298 |
| Automatic login does not work after password reset | 298 |
| The Login Window appears instead of your desktop after startup | 299 |
| Resolving Panther-specific login problems | 299 |
| Cannot login after sleep | 299 |
| Character Palette appears after login..... | 299 |
| Other missing from the Login Window | 299 |
| Resolving Jaguar-specific login problems..... | 299 |
| Automatic login disabled after upgrading from Mac OS X 10.1 to Jaguar | 299 |
| Cannot login after Archive and Install of Jaguar over Panther | 300 |
| Your keyboard layout changes on startup, prohibiting login | 300 |
| Related links | 300 |

| | |
|---|-----|
| Login Items | 301 |
| Related links..... | 302 |
| | |
| Mac OS 9 | 303 |
| Why keep Mac OS 9..... | 303 |
| Uninstalling Mac OS 9 | 304 |
| If Mac OS 9 and Mac OS X are on the same partition..... | 304 |
| If Mac OS 9 and Mac OS X are on different partitions..... | 305 |
| Reinstalling Mac OS 9 | 305 |
| Related links..... | 306 |
| | |
| Mac OS X Standalone Updates | 307 |
| About Mac OS X standalone updates | 307 |
| Obtaining Mac OS X standalone updates | 307 |
| Planning to install standalone updates..... | 308 |
| Related links..... | 308 |
| | |
| Make Yourself the Owner of an Object | 309 |
| Related links..... | 310 |
| | |
| Memory Card Reader Unexpectedly Ejects the Media..... | 311 |
| Related links | 311 |
| | |
| Microsoft Windows Integration..... | 312 |
| General information and troubleshooting of common Mac-Windows integration issues..... | 312 |
| Changes to Mac-Windows integration in Panther..... | 312 |
| MacWindows: a superb cross-platform resource | 313 |
| Basics of Mac-Windows integration | 313 |
| Using disks in Mac OS Extended format with Windows | 313 |
| Problems with MS-DOS or Windows formatted disks..... | 314 |
| Problems with CDs and DVDs | 314 |
| Printer sharing between Mac OS X and Microsoft Windows | 315 |
| Running Windows applications on Mac OS X..... | 315 |
| Windows Media files and Mac OS X..... | 315 |
| Windows File Sharing..... | 315 |
| Configuring Mac OS X and connecting to Windows volumes..... | 315 |
| Configuring Windows and connecting to Mac shared volumes | 316 |
| Finder and Windows shared volumes | 316 |
| Problems connecting from Macs to Windows | 316 |
| Freezes, hangs, or kernel panics with Windows File Sharing under Jaguar | 318 |
| Problems copying files to Windows shared volumes | 319 |
| Permission-related problems on Windows shared volumes under Jaguar | 319 |
| Shared volumes are disconnected after sleep under Panther | 320 |
| Problems connecting from Windows to Macs | 320 |
| Related links | 320 |
| | |
| Mouse Problems | 322 |
| Related links | 325 |
| | |
| Networking | 326 |
| Networking basics | 326 |
| Do I need a network?..... | 326 |
| Building a network..... | 327 |
| Connecting to the Internet..... | 328 |
| Internet connection sharing..... | 328 |
| File sharing | 329 |

| | |
|---|------------|
| Networking in different locations | 330 |
| Remote access to your Mac | 332 |
| Troubleshooting networks | 332 |
| General network troubleshooting | 332 |
| Troubleshooting Internet connections | 333 |
| Resolving common Internet connection-sharing problems | 333 |
| AirPort does not share Internet connection | 333 |
| Difficulties simultaneously sharing files and connecting to the Internet..... | 334 |
| Missing options in Internet sharing under Jaguar..... | 334 |
| Port names are listed multiple times in Internet sharing under Jaguar..... | 334 |
| Sleep stops Internet connection sharing | 334 |
| Resolving common dial-up and modem problems..... | 334 |
| Dial-up fails to connect | 334 |
| Dial-up fails to disconnect under Jaguar | 334 |
| Could not open the communications device alert under Jaguar..... | 334 |
| Modem problems with certain Symantec Norton software | 335 |
| Issues with certain Scandinavian ISPs under Jaguar..... | 335 |
| Troubleshooting file sharing | 335 |
| Resolving common file-sharing problems | 335 |
| Already Connected... alert when file sharing with Mac OS 9 | 335 |
| You cannot find a specific Mac on the network | 335 |
| Network resources are missing from the Network Browser under Panther | 336 |
| File sharing does not work..... | 336 |
| Sleep is inhibited when file sharing under Jaguar | 336 |
| Unable to connect to .local hostnames under Panther..... | 336 |
| Resolving other networking problems..... | 336 |
| IP Configuration alert..... | 336 |
| Missing options in Network preferences under Jaguar..... | 337 |
| Related links | 337 |
| Performance..... | 339 |
| Optimizing Mac OS X performance | 339 |
| Troubleshooting performance problems..... | 341 |
| Finding processes or applications impacting performance | 341 |
| How to terminate a process | 341 |
| Resolving common performance problems | 344 |
| System is slow or unresponsive during application installation | 344 |
| SystemUIServer: high CPU usage and Menu Extras | 344 |
| Other common performance problems | 344 |
| Related links | 345 |
| Printing and Printer Sharing..... | 346 |
| About printing | 346 |
| Printing basics..... | 346 |
| Changes to printing in Panther | 346 |
| Printer compatibility with Mac OS X | 347 |
| If you use a PostScript printer | 347 |
| If you use an ink jet printer | 347 |
| Getting unsupported printers to work with Mac OS X | 347 |
| Troubleshooting printing | 348 |
| Troubleshooting with CUPS | 348 |
| Resolving common printing problems..... | 348 |
| Applications quit unexpectedly quit when printing | 348 |
| Driver not installed alert when adding a printer | 349 |

| | |
|---|------------|
| Error 1282 alert or print queues are missing | 349 |
| Printing occurs on the wrong printer..... | 349 |
| Unable to print to networked IP PostScript printers..... | 349 |
| USB-to-Parallel adapter problems..... | 349 |
| Resolving Panther-specific printing problems | 350 |
| A /spool/cups/ alert appears when printing..... | 350 |
| Authentication required: a lock icon appears next to the printer name..... | 350 |
| Resolving Jaguar-specific printing problems | 350 |
| Network printers are missing after upgrading..... | 350 |
| TIFF files print incorrectly from Preview | 350 |
| USB-based PostScript printer does not work | 350 |
| Printer sharing | 351 |
| About printer sharing..... | 351 |
| Sharing your printer with Mac OS X systems | 351 |
| Sharing your printer with Mac OS 9 systems | 351 |
| Sharing printers between Panther and Microsoft Windows | 352 |
| Sharing your printer with Microsoft Windows | 352 |
| Sharing a Microsoft Windows printer with Panther..... | 352 |
| Sharing printers between Jaguar and Microsoft Windows | 352 |
| Sharing your printer with Microsoft Windows | 353 |
| Sharing a Microsoft Windows printer with Jaguar | 353 |
| Sharing your printer with other UNIX-based systems | 353 |
| Sharing a base station printer | 354 |
| Troubleshooting printer sharing | 354 |
| Resolving common printer-sharing problems | 355 |
| Applications quit unexpectedly when printing to a shared printer..... | 355 |
| Base station printer does not appear in the Printer pull-down menu..... | 355 |
| Printer sharing was working, then stopped working | 356 |
| Resolving Panther-specific printer-sharing problems | 356 |
| Error -9672 alert when adding a base station printer | 356 |
| Problems with printer sharing after installing Panther | 356 |
| Shared printer name is garbled | 356 |
| Resolving Jaguar-specific printer-sharing problems | 356 |
| Cannot cancel a print job sent to a shared printer using Print Center | 356 |
| Shared printer can be selected but not used..... | 357 |
| System momentarily hangs or freezes when printing to a shared printer..... | 357 |
| Unable to connect to IP host alert | 357 |
| What is the Shared Fax Modem and why can I not use it? | 357 |
| Related links | 357 |
| Problems from Insufficient RAM and Free Hard Disk Space | 359 |
| Memory management in Mac OS X | 359 |
| Problems from lack of RAM or hard disk space | 360 |
| Determining if your system is at risk..... | 360 |
| Determine the available space on your Mac OS X boot volume | 360 |
| Determine how much paging your system is performing | 361 |
| Permanently resolving the problems | 362 |
| Related links | 362 |
| Repair Disk Process..... | 363 |
| General Repair Disk process..... | 363 |
| Repair your Mac OS X boot volume | 364 |
| Repair disks or volumes other than your current Mac OS X boot volume..... | 365 |
| Troubleshooting Repair Disk | 365 |

| | |
|---|------------|
| Operation not permitted message under Jaguar | 365 |
| Related links..... | 366 |
| Repair Permissions Process | 367 |
| Repair Permissions from your Mac OS X boot volume | 367 |
| Repair Permissions using the Mac OS X Install CD..... | 368 |
| Troubleshooting Repair Permissions..... | 368 |
| Error: No valid packages (-9997) under Panther | 368 |
| Messages from Repair Permissions | 369 |
| Related links..... | 370 |
| Resolving Disk, Permission, and Cache Corruption..... | 371 |
| Related links..... | 373 |
| Scanners | 374 |
| Scanner support in Mac OS X | 374 |
| Image Capture Architecture Device Module | 374 |
| Mac OS X-compatible TWAIN Data Source..... | 375 |
| Compatible scanners..... | 375 |
| Using unsupported scanners..... | 375 |
| Troubleshooting scanners | 376 |
| Related links..... | 376 |
| Sherlock | 377 |
| Troubleshooting Sherlock..... | 377 |
| Sherlock fails to launch or quits unexpectedly | 377 |
| Sherlock launches but channels do not load | 378 |
| Channel names appear as CHANNEL_NAME | 379 |
| Sherlock Yellow Pages search fails under Jaguar | 379 |
| Finding, adding, and developing new Sherlock 3 channels | 379 |
| Finding new Sherlock 3 Channels | 379 |
| Adding Sherlock 3 channels | 380 |
| Developing Sherlock 3 channels..... | 380 |
| Related links | 380 |
| Shutdown | 381 |
| About shutdown..... | 381 |
| Selecting Shut Down..... | 381 |
| Obsolete methods of selecting Shut Down | 381 |
| Scheduling shutdown | 381 |
| Shutdown and Fast User Switching under Panther | 382 |
| Troubleshooting shutdown | 382 |
| Your Mac restarts after shutdown | 382 |
| Your Mac will not shut down..... | 383 |
| Related links | 385 |
| Sleep | 386 |
| Sleep vs. Shut Down | 386 |
| Power management in Mac OS X | 387 |
| Troubleshooting sleep problems | 387 |
| Resolving common sleep problems..... | 388 |
| Aftermarket SuperDrives..... | 388 |
| Aftermarket PCI cards..... | 388 |
| Bluetooth wireless keyboard or mouse cannot wake your Mac | 388 |
| Classic mode will not sleep..... | 388 |

| | |
|--|------------|
| Power Mac G4 QuickSilver models perform slowly after waking from sleep | 388 |
| Resolving Panther-specific sleep problems..... | 389 |
| Cannot login after sleep | 389 |
| Character Palette appears unexpectedly | 389 |
| Fax-related sleep problems | 389 |
| Resolving Jaguar-specific sleep problems | 389 |
| Disconnected shared volume prohibits waking from sleep | 389 |
| Disconnecting an external hard drive inhibits sleep..... | 389 |
| Display problems after waking from sleep | 390 |
| File sharing inhibits sleep..... | 390 |
| Laptop does not sleep immediately after closing the lid | 390 |
| Laptop loses power during sleep | 390 |
| Related links | 390 |
| Software Update | 392 |
| Should I update? | 392 |
| Obtaining large software updates..... | 393 |
| Preventing problems with software updates..... | 394 |
| Before installing software updates | 394 |
| After installing software updates | 396 |
| Troubleshooting a software update | 396 |
| Resolving common problems after a software update..... | 396 |
| Problems with third-party hardware | 397 |
| Recovering from a failed software update | 398 |
| Troubleshooting Software Update | 399 |
| Optimizing takes longer than the stated “one minute remaining”..... | 399 |
| Software Update quits unexpectedly | 399 |
| Software Update quits when selected in System Preferences | 400 |
| Software Update quits when checking for updates | 400 |
| Related links | 401 |
| Sound | 402 |
| Troubleshooting sound | 402 |
| Resolving common sound problems | 402 |
| Connecting headphones does not mute the iSub..... | 402 |
| External speakers “pop” when waking from sleep..... | 402 |
| Griffin iMic does not work with Mac OS X 10.2.8 or later | 402 |
| Sounds are produced after a delay | 403 |
| Resolving Jaguar-related sound problems | 403 |
| Audio applications quit unexpectedly | 403 |
| Balance drifts..... | 403 |
| Classic applications lose sound..... | 403 |
| DallasPartialInsert alerts..... | 403 |
| Distorted recordings over USB audio | 403 |
| iSub does not work after installing Jaguar | 404 |
| Mute key does not mute iSub | 404 |
| Sound tips..... | 404 |
| Adding alert sounds to Mac OS X | 404 |
| Adding audio input and output to your Mac | 404 |
| Creating a login sound | 404 |
| Recording with Classic Applications | 404 |
| Related links | 405 |
| The Spinning Beach Ball of Death | 406 |
| Frequent SBBODs in processor-intensive tasks | 406 |

| | |
|--|-----|
| SBBOD spins for 30 to 35 seconds. You may hear your hard drives spinning up..... | 407 |
| The SBBOD appears when opening Help Viewer or searching for help | 407 |
| The SBBOD appears when quitting Microsoft applications | 407 |
| The SBBOD displays for reasons other than those above | 408 |
| Related Links..... | 408 |
| | |
| Startup | 409 |
| General startup troubleshooting | 409 |
| Try Safe Mode to bypass non-Apple startup items | 409 |
| Start up in single-user mode and run fsck | 410 |
| Troubleshooting specific startup problems | 411 |
| The startup tone... | 411 |
| ...does not sound | 411 |
| ...sounds like breaking glass or musical beeps..... | 411 |
| ...is too loud..... | 412 |
| My system starts up to..... | 412 |
| ...a security warning | 412 |
| ...a screen of text stating something about mac-boot..... | 412 |
| My system will not start up after..... | 412 |
| ...connecting to, disconnecting from, or changing my network | 412 |
| ...deleting Mac OS X files while booted in Mac OS 9..... | 413 |
| ...installing an AirPort or AirPort Extreme card..... | 413 |
| ...installing applications | 413 |
| ...installing a Mac OS X Update | 413 |
| ...installing Mac OS X 10.2 Jaguar and Apple Display Software..... | 414 |
| ...resetting PRAM | 414 |
| My system will not start up from a FireWire hard drive | 414 |
| My system will not start up from Mac OS 9 or Mac OS X | 414 |
| Startup Manager lists only one Mac OS on your boot volume | 414 |
| Unable to start up in Mac OS 9 | 415 |
| Startup boots in Mac OS 9, not Mac OS X | 415 |
| My Mac starts up slowly | 415 |
| Related links..... | 416 |
| | |
| Startup Items..... | 417 |
| Related links..... | 418 |
| | |
| Suppressing Startup or Login Items | 419 |
| Related links..... | 420 |
| | |
| System Preferences | 421 |
| Duplicate or missing preferences panes | 421 |
| System Preferences fails to launch or quits unexpectedly | 421 |
| System Preferences quits unexpectedly when..... | 423 |
| ...Desktop preferences are selected under Jaguar | 423 |
| ...Screen Effects preferences are selected under Jaguar | 423 |
| ...Desktop & Screen Saver preferences are selected under Panther..... | 424 |
| ...Sharing preferences are selected | 424 |
| Preference panes from uninstalled applications linger in System Preferences..... | 425 |
| Solid color desktop background does not tile under Panther | 426 |
| Related links..... | 427 |
| | |
| System Profiler | 428 |
| Launching System Profiler..... | 428 |
| Troubleshooting System Profiler | 429 |

| | |
|---|---------|
| System Profiler fails to launch..... | 429 |
| System Profiler fails to list some information | 429 |
| System Profiler identifies ATI video cards as “ATY” | 429 |
| System Profiler incorrectly reports installed RAM..... | 429 |
| Slots containing RAM appear as empty in System Profiler..... | 430 |
| USB-connected Palm devices do not appear in System Profiler..... | 430 |
| Saving a text report from System Profiler..... | 430 |
| Related links | 430 |
| Trash Problems..... | 431 |
| About the Trash in Mac OS X..... | 431 |
| Trash utilities for eradicating troublesome files | 431 |
| Resolving common Trash problems | 432 |
| Moving locked files to the Trash..... | 432 |
| Locked files in the Trash | 432 |
| Files in use by other applications..... | 433 |
| Insufficient privileges needed to Trash an object..... | 433 |
| Incomplete Internet downloads | 433 |
| Files dragged to the Trash “will be deleted immediately” alert..... | 433 |
| Immutable files..... | 434 |
| Related links | 434 |
| Uninstalling Symantec Norton Products | 435 |
| Uninstalling all Symantec Norton products at once | 435 |
| Uninstalling individual 2003-2004 Symantec Norton products | 435 |
| Under Panther..... | 435 |
| Under Jaguar | 436 |
| Uninstalling older Symantec Norton products | 436 |
| Related links | 437 |
| VCD and SVCD Players..... | 438 |
| About VCD and SVCD..... | 438 |
| Creating VCDs and SVCDs with Mac OS X | 438 |
| Using VCDs and SVCDs with home DVD players | 438 |
| Mac OS X support for VCD and SVCD | 439 |
| Support in Mac OS X 10.3 Panther..... | 439 |
| Support in Mac OS X 10.2 Jaguar | 439 |
| Third-party players..... | 439 |
| Related links | 440 |
| Glossary | 441 |
| Index | 446 |
| Colophon | 458 |

Index

Symbols

.dfont 235
 .dmg 184, 189
 .help 268
 .img 184, 189
 .kext 276
 .log 174
 .plist 127
 /Applications 141
 /etc 413
 /etc/master.passwd 413
 /private/var/db/netinfo/local.nidb/ 370
 /private/var/run/utmp 370
 /spool/cups/ 205, 350
 /tmp 155, 336, 348
 /var 413
 ~/Applications 141
802.11 97, 327, 444

A

AccelerateYourMac 25, 34, 158
Active Directory 312, 321
Activity Monitor 20, 341–342
Advanced Encryption Standard 101
AES 101, 441
AFP 441
AirPort
 Internet connection sharing 333
 Internet connection via 328
 networks 327
 remote access 332
 requirements 327
 security 97–98, 104
 startup-related problems 413
 third-party cards 338
 VPNs and 100

AirPort Extreme

base station printer 354
 kernel panics and 279
 third-party cards and 338

America Online

anti-virus 97, 342

AOL

328, 441

Apple

Apple Store 111
 Developer Connection 26
 Discussions 25, 35, 80
 feedback 46
 Retail Stores 24
 security updates 93
 user groups 25

AppleCare Knowledge Base

79, 81–82

AppleCare Protection Plan

48, 111

AppleTalk

329, 336

Apple Double format

319

Apple Menu

customization 14

Recent Items 223

Apple System Profiler

20, 113–116

applications

117–141

Classic 118

crash logs 174

default 121–125, 132–133

fails to launch 129–131, 194

finding new 139

installing 49, 119–121, 137

Java 118

Mac OS X 117–118

Microsoft Windows 119

opens in wrong Mac OS 134–135

packages 120

preferences files 126–128, 134, 360

preventing problems with 139

quits unexpectedly 130–131, 403

registration requests repeat 134

reinstalling 138

slow to launch or open 132
 stop responding 136
 troubleshooting 128–137
 uninstalling 49, 139–140
 UNIX 119
 unresponsive 136
 wrong application opens 132

Archive and Install 142–145

asr 189

ATI 114, 429

ATY 114, 429

AVI 146–148, 441

B

backup and recovery 48, 51–63
 FileVault and 102
 for Mac OS 9 61
 iTunes 62
 what and when to backup 27, 51

Bluetooth 266, 326, 334

bootable 441

BootP 337

boot chime 411

boot volume 441

Brickhouse 99, 104

broadband 328, 333

broken folder icon 409

BSD 441

BSD Subsystem
 BSD Commands environment 118
 determining if installed 149
 installing after Mac OS X 149–150
 networking and 333
 printer sharing and 357
 selecting in Custom Install 15

burning 151–160
 CDs 151–154
 DVD+RW 153
 DVD-R 153, 157
 DVD-RAM 157
 DVD-RW 151, 157
 DVDs 151–154
 error codes 155–156
 factors affecting 152
 iTunes 154, 156
 MS-DOS disk images 190
 player compatibility 151
 preventing problems with 151–153
 restricting who can 154
 SuperDrive 153, 157, 159–160

supported burners 157
 SVCDs 151
 troubleshooting 154–158
 UDF 157
 unsupported burners 17, 157–158
 VCDs 151
 Windows compatibility 152, 314

ButtonOfDallasPartialInsert 403

C

cable modem
 Internet connection via 328
 troubleshooting 333

cache cleaning 49, 161–162, 372
 font cache 239

Cache Out X 161

Carbon 118

CATV 441

CDs
 burning 151–154
 multi-session 152, 153
 protecting 83–84

cellular 328

Character Palette 299

Charismac Dscribe 153, 158

Classic 163–167
 already running alert 165
 applications 118, 134–135
 fails to launch 164
 Fast User Switching and 165
 protecting System files 103
 recording with 404
 sleep 388
 slow to launch 165
 sound 403
 troubleshooting 164–165

CLI 441

Clock 20

Cocktail 14, 29, 161

Cocoa 117

CODEC 146, 441

Common UNIX Printing System 348

Connect to Server 21, 216

Console 20, 168–180
 messages 170–174

Control Strip 14

CopyPaste X 295

crash
 logs 174–179

reporting 175–176
creator codes 121
Cronaid 29
CUPS 348, 441

D

DallasPartialInsert alerts 403
Dantz Retrospect 51, 56
Darwin 262
data recovery 181–183
Data Rescue X 183
data security 101–104
defragmenting 28, 67, 68–69
DeLocalizer 248
Developer Tools 76, 128
DHCP 337
dial-up
 downloading large updates 393
 Internet connection via 328
 troubleshooting 333, 334–335

Dimage 190
Directory Access 336
disclaimer 8
Discibe 153, 158
Disk Copy 14, 20, 184–188
disk images

 encrypted 101
 error -53670208 190
 in Jaguar 184–188
 in Panther 189–191

disk utilities 66–72
 for data recovery 182
 for erase and zero data 195
 recommended 68–70

Disk Utility 68
 disk images 101, 189–191
 Erase 195
 floppy disks 234
 Operation not permitted 365, 369
 problems with burned discs 156
 Repair Disk 363–366
 Repair Permissions 365, 367–370
 SMART diagnostics 68

Disk Warrior 68
DivX 146–148, 441
Dock 192–194
donationware 442
Dragster 222

drag and drop 221
DriveSavers Data Recovery 183
Drive 10 68
Drive Setup 195
DropDMG 190
DropObliter8 431
DSL 442

 Internet connection via 328
 troubleshooting 333
DVDs 151–154
DVD Player 439
DVD Studio Pro 151, 158
DVI port 382

E

echo packets 334
education 24–26
encryption
 data 101
 FileVault 101
 Wi-Fi networks 97–98
EPS Ghostscript 348
erase and zero data 195–198
error codes

 burning 155–156
 Disk Utility 365, 368
 Finder 221
 Mac OS X 73–74
 Repair Disk 365
 Repair Permissions 368

Ethernet
 networks 327
 printer connection 350
Exposé 291, 297
 Blob 297
extensions 121
Extensis Suitcase 236, 238

F

F-keys 295
FAQ 442
Fast User Switching 101, 199–203
 application support for 200
 cube effect 201
 Home folders and 199
 Internet connection and 202
 iTunes and 202
 performance and 201

- restrictions 199–201
- shutdown and 200
- FAT16** 230, 314
- FAT32** 230, 314
- Favorites** 21, 225
- Fax** 204–207
 - addressing 205
 - forwarding 206
 - multipurpose devices 206
 - not sent 205
 - sharing 206
 - sleep problems with 206
 - software fax error 205
 - third-party solutions 206
- FAXstf** 207
- feedback** 46
- FileVault** 19, 101–102
 - repairing Home directory 366, 373
- file sharing** 329–330
 - Internet connection sharing and 334
 - troubleshooting 335–336
 - with Windows 315–321
- file system consistency check** 69, 366
- file system journaling** 21, 67
- Finder** 216–226
 - application associations 122
 - changes in Panther 216–217
 - Connect to Server 216
 - drag and drop 221
 - ejecting a partition 224
 - error code -10660 132, 221
 - Favorites 21, 225
 - Get Info comments 225
 - hard disks in Panther 216
 - Network Browser 216
 - quits 218–220
 - Recent Folders 223
 - Recent Items 223
 - Services menu 173, 223
 - slow 217
 - stops responding 217
 - Windows shared volumes 316
- Find by Content** 208–215
 - indexing 14, 209–210
 - troubleshooting 211–214
 - using 208, 211
- firewall** 98–99, 104, 318
 - unavailable 19
 - vs. routers 99
- FireWire** 227–232
 - devices fail to mount 228–229
 - hard drives
- as backup medium 52
- cannot start up from 229
- copying large files to 230–231
- data loss in Panther 16, 227
- ejecting 231
- formatted for PCs 230–231
- NTFS format 230
- partitioning 230
- slow data transfer 231
- IP over FireWire 327, 328
- Target Disk Mode 39, 43, 327
- firmware** 12, 442
- First Aid folder** 75–78
- flashing question mark** 409, 415
- Flash drives** 387
- floppy disks** 233–234
- FontAgent Pro** 236, 238
- FontDoctor** 238
- fonts** 235–242
 - cache corruption 239
 - corrupted 238–239
 - disabled 240
 - locations 236
 - Mac OS 9 239
 - management 235–237
 - missing 240
 - performance and 340
 - previewing uninstalled 237
 - System fonts 236
- Font Book** 236, 243–246
- Font Reserve** 236, 238
- FreeBSD** 26, 29
- freeware** 442
- Freezes and Hangs** 250–258
 - determining cause 257
 - force shut down or restart 256
 - recovering after 257
 - resolving with ssh 251–256
 - troubleshooting 250
- fsck** 69, 71, 366
- FTP** 333, 442
- function keys** 295

G

- games** 304
- Get Info comments** 225
- Gimp-Print** 21, 346, 348
- Google**
 - finding answers 81
 - finding error codes 74

- product reviews 35
- Sherlock channels 379
- GPRS** 328, 442
- Griffin iMic** 402, 404
- GUI** 442

H

- hacks** 49, 110, 395
- hardware**
 - Apple Hardware Test 265
 - testing 265–267
 - troubleshooting 110–111
 - upgrading 33–38
- hard disks**
 - available space 247, 360
 - data recovery 181–183
 - defragmenting 28, 67, 68–69
 - ejecting 224
 - erasing 103
 - Finder handling in Panther 216
 - FireWire 227–232
 - freeing space 247–249
 - install Mac OS 9 drivers 198
 - journaling 21, 67
 - NTFS format 230, 312
 - partitioning 15, 59
 - repairing 363–366
 - sleep 259–264
 - unmounting 224
 - zeroing data 195–198
- HeaderOfDallasPartialInsert** 403
- Help** 24–26, 79–82
- Help Viewer** 268–273
 - application help missing 273
 - displays incorrect Help 271
 - links do not work 272
 - quits on launch 268–270
 - quits unexpectedly 270–271
 - search field missing 272
 - slow to launch 271–272

I

- iDisk** 383
- iDVD** 151, 157, 158
 - reinstalling 138
- IEEE** 442
 - 802.11 327, 444
- iKey** 291
- Image Capture** 374

- iMic** 402, 404
- indexing** 209–210
- Internet**
 - connecting to 328
 - connection sharing 328
 - troubleshooting 333–335
- Internet Protocol Security** 99
- Internet Service Provider** 83, 328, 442
- IP** 442
 - address
 - determining 329, 353
 - obtaining 328
 - over FireWire 327, 328
- ipfw** 98
- iPhoto** 248
- iPod** 414
- IPSec** 99
- ISP** 83, 328, 442
- iSub** 402, 404, 405
- iTunes**
 - backup 62
 - burning 154
 - moving Music folder 248
 - sleep and 299
 - visuals and performance 340

J

- Jaguar**
 - upgrading to Panther 16–23
- Java** 118
- journaling** 21, 67

K

- kernel extension** 276, 412
- kernel panics** 276–289
 - causes 277–278
 - panic logs
 - interpreting 280–287
 - obtaining help with 287
 - resolving 278–280
 - Windows File Sharing and 318
- keyboard**
 - Apple Wireless Keyboard 292, 297
 - brightness key 295, 296
 - cleaning and disassembly 292
 - eject key 293, 296
 - Exposé 291, 297
 - Blob 297
 - F-keys 295

function keys 295
 general troubleshooting 291
 images of keys appear 293
Keyboard Viewer 297
Key Caps 297
KVM switchbox 293, 295
 layout changes at startup 293
 no visual feedback 296
 numeric keypad 294
 one key fails to work 294
 open firmware password 294
 shortcuts 290–291, 295
 sounds when typing 295
 volume keys 293, 296

Keyboard Viewer 20, 297

Keychain 96, 318

Keychain Access 20, 96

Keychain First Aid 96

Key Caps 20, 297

kill 254, 343

killall 254

KopyMac 321

KVM switchbox 293, 295

L

L2TP 99

LAN 442

internet connection via 328
 troubleshooting 333

Language localizations 248

laptops

general advice 49, 84
 hard drive sleep 263
 international travel 330–331
 sleep issues 390
 surge protection 89
 using function keys 295

Layer 2 Tunneling Protocol 99

LCD 386

LCP 334, 442

LDAP 412, 442

Lightweight Directory Access Protocol 412

Link Control Protocol 334

Little Snitch 272

LiveUpdate 435

locations 330

login

automatic 93
 sound 404

troubleshooting 298–300

Login Items 298, 301–302
 bypassing at startup 419–420

logs

crash logs 174–179
 installation 120
 maintenance scripts 30–31
 panic logs 175, 280–287
 System 29

LPR 352, 354

M

Mac

integrating with Windows 312–321
 models and specifications 37
 moving to a new Mac 39–45
 organizing information about 83–85
 upgrading 33–38
 using Windows formatted disks 314

MacAcademy 25

MacDrive for Windows 313

MacFixIt.com 81

MacJanitor 29

MacMonkies 78

MacUpdate 14, 139, 379

MacVCD X 439

MacWindows 25, 313, 315

Mac Diary 84

Mac OS 9 303–306

backup and recovery 61
 cannot start up in 415
 disks fail to mount 229
 fonts 235, 239
 reinstalling 305
 remote access using 332
 un/installing 304–305
 why keep it 303–304

Mac OS Extended

Classic 118, 164
 DVD-R discs 152
 FireWire drives 230
 floppy disks 234
 type and creator codes 121
 Windows compatibility 313

Mac OS Standard

Classic 118, 164
 floppy disks 234
 type and creator codes 121

Mac OS X

applications 117

background processes 25, 341–342
 backup and recovery 56–61
 books 24
 build information 308
 changes from Mac OS 9 13
 Classic mode 163–167
 Darwin 262
 Developer Tools 76, 128
 documentation 26, 92
 error codes 73–74
 installing 11–15
 learning 24–26
 maintenance 27–28
 memory management 359
 Microsoft Windows and 312–321
 multithreading 176
 performance 339–345
 power management 387
 preventing problems 48–50
 processes 25, 341–342
 reinstalling 142–145
 security 92–105
 supported
 burners 157
 printers 347
 scanners 374–376
 unsupported
 burners 157–158
 printers 347–348
 scanners 375
 updates 307–308
 upgrading to Panther 16–23
 using PC-formatted disks 314
 Web sites 25
 Xcode Tools 76, 128

Mac OS X Hints 25, 81

Mail 22

maintenance scripts 29–32

man pages 26

MasterJuggler 236

McAfee Virex 97

memory card readers

- eject media unexpectedly 311
- hard drive sleep and 262

Menu Extras 344

Microsoft Office

- font problems 240
- spinning beach ball of death 407–408

Microsoft Windows

- applications 119
- File Sharing 315–321
- integrating with Macs 312–321

printer sharing 352–353
 using Mac formatted disks 313

Microsoft Virtual PC for Mac 119, 163, 315

Mirror Agent 383

modem

- Fax 204
- troubleshooting 334–335

Monolingual 248

Mount.app 188

Mount Me! 188

mouse 322–325

- Apple Wireless Mouse 323, 325

N

nagware 442

NAT 98

NetInfo Manager 92, 186–187

networks 326–338

- Apple Discussions for 337
- assessing need for 326
- building 327
- international travel and 330–331
- locations 330
- remote access 332
- security 97–100
- Symantec Norton products and 335
- troubleshooting 332–336

Network Address Translation 98

Network Browser 21, 216

Network Utility 333

NFS 443

Norton AntiVirus 97, 114

Norton Internet Security 335

Norton Personal Firewall 114, 335

Norton Scheduler 435

Norton SystemWorks 114

Norton Utilities 114

notational conventions 5

NTFS 230, 312

numeric keypad 294

NVRAM 111, 443

O

O'Reilly & Associates, Inc. 25

OpenSSH 332, 444

open firmware 94, 294

OSXFAQ 25, 81

P

- P2P** 97, 443
- Palm**
 - Desktop 268
 - HotSync 200
- panic logs** 175, 280–287
- Panther**
 - changes from Jaguar 20–22
 - installation issues 16, 19
 - upgrading from Jaguar 16–23
- Panther Cache Cleaner** 29, 161
- partition** 443
 - creating 59
 - unmounting 224
- partitioning** 15
- passwords** 93–96
 - Admin 95
 - changing 95–96
 - choosing 94
 - hint 95
 - Keychain 96
 - Master 94
 - open firmware 94, 294
 - resetting 95–96
 - root 96
 - screen saver 93
 - troubleshooting 95–96
- PCI cards** 35, 387, 388
- performance**
 - Fast User Switching and 201
 - FileVault and 102
 - Finder 217
 - floppy disks 233
 - fonts and 244, 340
 - games 304
 - Help Viewer 271
 - Mac OS X 339–345
 - Menu Extras and 344
 - paging and 361
 - RAM and 359
- peripherals**
 - troubleshooting 274–275
 - upgrading 33–38
- permissions**
 - changing ownership 309–310
 - repairing 367–370
 - troubleshooting 373
 - Windows File Sharing 319
- PlaySnd** 404
- PlusOptimizer** 69
- pmset** 260–261, 263–264
- PMU** 91, 229, 443
- Point-to-Point Tunneling Protocol** 99
- ports** 98
- POST** 411
- power-on self-test** 411
- PowerPC** 288
- power outages**
 - protecting against 86–89
 - recovering from 90
- power surges** 89–90
- PPD** 443
- PPoE** 443
 - internet connection and 328
 - troubleshooting 333
- PPP** 443
 - AirPort administration via 332
 - internet connection via 328
 - troubleshooting 333, 334
- PPTP** 99
- PRAM** 111, 443
- prebinding** 172, 401
- preferences files** 126–128
- Previous Systems folder** 143
- printers**
 - default 349
 - ink jet 347
 - PostScript 347, 349, 350
 - queue name 353
 - sharing 351–357
 - supported
 - base station printers 354
 - in Mac OS X 347
 - unsupported 347–348
- Printer Setup Utility** 20, 346
- printer sharing** 351–357
 - base station printer 354
 - sleep problems with 388
 - troubleshooting 354–357
 - with Mac OS 9 351
 - with Mac OS X 351
 - with UNIX 353
 - with Windows 352–353
- printing** 346–350
- Print Center** 20, 346, 356
- Process Viewer** 20, 341–342
- Property List Editor** 128, 401
- Pro Speakers** 405

Q

Quartz Extreme 201
Quartz Extreme Check 201
QuickTime 146, 147, 439

R

RAID 414
RAM 443
 kernel panics and 277
 performance and 339
 problems from lack of 360
recommendations 7
reinstalling
 applications 138
 iTunes 138
 Mac OS 9 305
 Mac OS X 142–145
remote access 332
Rendezvous 326, 333, 337
Repair Disk 363–366, 371
Repair Permissions 367–370, 372
 messages from 369
 No valid packages alert 368
 Operation not permitted 369
 when to 48
ResExcellence 25
restart 86, 256, 382
Retrospect 51
root 49, 96, 412
routers 98, 100, 334
 vs. firewalls 99
Roxio Toast 153, 158

S

Safari 22, 337
Safe Mode 409
SBBOD 406–408, 443
scanners 374–376
screen saver
 LCDs and 386
 login and 299
 password 93
SCSI 158, 387, 444
SecureMac 92
security 92–105
 data 101–103

documentation 92
 networks 97–100
 passwords 93–96
 physical 93
 screen saver 93
 updates 93
 warning at startup 412
Services menu 173, 223
shareware 443
Sherlock 14, 377–380
 vs. Find by Content 210
shutdown 381–385
 Fast User Switching 382
 forcing 256
 obsolete methods 381
 restarts after 382
 scheduling 381
 selecting 381
 vs. sleep 386
 will not 383
SilverFast 375
single-user mode 409, 410
sleep 386–391
 aftermarket SuperDrives 388
 Bluetooth options 388
 Classic 388
 display problems upon waking 390
 external hard drives and 389
 external speakers pop on wake 402
 Fax-related problems 206, 389
 file sharing and 336, 389
 general troubleshooting 387
 hard disks 259–264
 Internet connection sharing and 334
 iTunes and 299
 laptops and 388, 390
 Login Window and 32
 PCI cards 387, 388
 peripherals and 274
 Power Mac G4 QuickSilver 388
 printer sharing 388
 screen saver and 299
 vs. Shut Down 386
 Windows File Sharing and 320
SMART 66, 68, 444
Software Update 27, 392–401
 deciding to update 392
 downloading large updates 393
 failed updates 398
 optimizing time 399
 problems
 after updating 396
 preventing 111, 394–396

quits unexpectedly 399–400

SOHO 444

sound 402–405

- adding alert sounds 404
- adding audio input and output 404
- Apple Pro Speakers 405
- audio applications quit unexpectedly 403
- balance drifts 403
- Classic applications 403
- delayed 403
- external speakers pop 402
- from keyboard 295
- iSub 402, 404, 405
- login sound 404
- recording in Classic 404
- SoundSticks 405
- startup tone 411

SoundSticks 405

Sound Recorder 404

spinning beach ball of death 406–408

- application frozen or hung 408
- frequent 406
- hard drive sleep and 261, 407
- Help Viewer 407
- Microsoft Applications 407–408

spyware 99

SSH 105, 250, 444

startup 409–416

- /etc/master.passwd alert 413
- blue screen 409
- broken folder icon 409
- bypassing Startup or Login Items 419–420
- cannot 409–410, 415
- flashing question mark 409, 415
- from FireWire drive 229, 414
- grey screen 409
- installation-related problems 413–414
- keyboard layout changes 293
- mac-boot 412
- network-related problems 412–413
- power-on self-test 411
- RAID 414
- security warning 412
- text screen 412
- tone 411–412

Startup Items 298, 417–418

- bypassing at startup 419–420

Startup Manager 54, 62, 414

StringOfDallasPartialInsert 403

Stuffit 17, 279

sudo 49

Suitcase 236, 238

SuperDrive

- DVD-RAM unsupported 157
- firmware update 153
- installing aftermarket 159–160
- limitations 153
- sleep problems 262, 388

support agreements 111

surge protection 89–90

SVCD 438–440, 444

Symantec Norton products

- kernel panics and 279
- uninstalling 435–437

Synergy 295

SystemUIServer 344

System Preferences 421–427

- changes in Panther 21
- desktop background 426
- preference panes
 - extra 421
 - missing 421
 - removing 425–426
 - quits unexpectedly 421–424
 - Software Update 400

System Profiler 428–430

T

Tagged Binary Control Protocol 347, 350

TBCP 347, 350, 444

TCP/IP 337, 444

TechTool Deluxe 266

TechTool Pro 69

- data recovery 182
- hardware tests 266
- Wipe Data 195

Telnet 332

Terminal

- changes in Panther 22
- learning 24, 25
- man pages 26
- window too small 241

Test ID 64–65

The X Lab 8, 25, 81

TinkerTool 14, 339

Toast 153, 158

top 254, 342, 361

training 24–26

Trash 431–434

- architecture 431
- cannot add files to 433–434

- deleted immediately alert 433–434
 desktop vs. Dock 14
 files in use alert 433
 immutable files 434
 incomplete downloads 433
 locked files 432
 recovering files from 181
 resolving common problems 432–434
 Secure Empty Trash 181
 utilities 431
- Trash It!** 431
- troubleshooting**
 Apple System Profiler 114–116
 applications 128–137
 burning CDs and DVDs 154–158
 Classic 164–165
 Disk Copy 184–188
 disk images in Panther 190
 Dock 193–194
 Fast User Switching 201
 Fax 205–207
 file sharing 335–336
 Finder 217–225
 FireWire 227–231
 fonts 238–241
 Font Book 243–246
 freezes and hangs 250–258
 general procedure 109–112
 hardware 110–111, 265–267
 hard disks 371–373
 hard drive sleep 261
 Help Viewer 268–273
 indexing 211–214
 Internet connections 333–335
 kernel panics 278–288
 keyboards and shortcuts 291–297
 keychains 96
 login 298–300
 Login Items 301–302
 memory card readers 311
 mouse 322–325
 networks 332–335, 336–337
 passwords 93–96
 performance 339–345
 peripherals 274–275
 permissions 367–370
 printer sharing 354–357
 printing 348–350
 Sherlock 377–380
 shutdown 381–385
 sleep 387
 software 110–111
 Software Update 399–400
 software updates 396–398
- sound 402–404
 spinning beach ball of death 406–408
 startup 409–416
 Startup Items 417–418
 System Preferences 421–427
 System Profiler 429–430
 Trash 432–434
 Windows File Sharing 315–320
- type and creator codes** 121
- U**
- UDF format** 157
- UFS** 234, 444
- uninstalling**
 applications 139
 Mac OS 9 304–305
 Symantec Norton products 435–437
- Uninterruptible Power Supply** 87–89
- UNIX** 29, 119
- upgrades** 33–38
 adding audio input and output 404
 affect on warranty 34
 aftermarket SuperDrive 159–160
 buying 36–37
 installing 34, 36
 moving to a new Mac 39–45
 planning 33–34
 researching 34–35
- UPS** 87–89, 444
- USB** 266, 274, 382
- users**
 moving to a new Mac 39–45
 restricting capabilities 103, 154
 unknown 185–187
- V**
- VaporSec** 100
- VCD** 438–440, 444
- VerifyDI** 190
- VersionTracker.com** 14, 139, 379
- VideoHelp** 147, 440
- Virex** 97
- Virtual PC** 119, 163, 315
- Virtual Private Networks** 99–100, 104
- virus** 97
- VLC** 146, 439
- volume** 444
- VPN** 99–100, 104

VPN Tracker 100

VueScan 375

W

W3C 444

warranties 111

WEP 97, 444

Westwind Mac OS X Reference 25

Wi-Fi 327, 330, 444

 security 97–98

Wi-Fi Protected Access 98

WiebeTech 232

Windows File Sharing 315–320

 configuring

 Mac OS X 315

 Windows PCs 316

 connection problems

 Mac to Windows 316–318

 Windows to Mac 320

 copying files 319

 freezes, hangs, and kernel panics 318

 permissions 319

 sleep and 320, 389

Windows Media files 315

Wired Equivalent Privacy 97

WPA 98, 444

WWW 445

X

X11 119

Xcode Tools 76, 128

XML 128, 445

X Font Info 237

X Lab, The 8, 25, 81

X Window System 119

Z

zeroing hard drives 195–198