

Troubleshooting Methodologies: Hardware, Software and Network Problems

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pre-pres0 tl;dr

- Feel good? Sorry, bitter truths within
- Listen & observe, but don't expect truth handed to you
- Exude confidence, even if you're not sure yet
- 75% is you NOT being technical, 25% is actual technical brawn
- Stay **HUNGRY**
- OK, feel free to take a nap

Know the boundaries

- Respect the client's patience
- Not all clients want to pay hours just to hunt down one problem (if you have that client: yay!)
- Balance between thoroughness and Alexander at the Gordian Knot

How to diagnose

- Usually they want you to ‘take over’ and figure out what’s going on. Not so fast!
- Tell them to sit in the driver’s seat and ‘show me’ what’s been going on
- Sometimes you have to hear the words that aren’t being spoken
- Your vast experience is your trusty co-pilot.

Troubleshooting Mindset

- Most problems all lead to same core set of problems:
 - Something's broken
 - Something's unplugged
 - Something's glitching
 - Someone did something wrong
- Remember the Gordian Knot

Put them at ease

- I'm here to help
- Commiserate
- **Be** confident – but not cocky
- Pretend to listen even if you've already got a bead on the problem

Basics

- Before arriving, prep ahead
- Can the error be reproduced?
- Start small/easy, work your way up to big/hard
- When testing a hypothesis/solution, always give yourself an escape hatch
- **BACKUP BACKUP BACKUP**

Things to assess

- Isolated to one machine?
- Isolated to one user account?
- Wear and tear? How old is the computer?
- How recent did the problem start?
Anything change since then?
- Clean power?

Things to assess

- Does your pristine laptop, as a 'control,' not have the same problem?
- Updates recently applied?
- What sez the intertoobs?
- Physical location a clue?
- Anything weird going on?

Best Practice Always

- Watch your step
- Swap-out
- Split-half tests
- Consult others
- Sleep on it (luxury!)

Simple easy tricks

- Ahem, restart the machine
- Safe boot – flush the caches
- Create a temp user
- Reseat memory, cables, etc.
- Temp swap the library folder
- Swap cables
- Reapply last combo updater

You fixed it!

- Confirm with the user
- Test and double-test
- Document the issue and solution
- If origins are suspicious, keep an eye out

Tools

Troubleshooting Non-Physical Tools

- **GOOGLE!**
- **Sites/Forums/Lists - Apple Consultants Network**
- **GOOGLE!**
- **join.me / logmein / iChat / Skype / VPN**
- **GOOGLE!**

4/17/12 9:41:52 PM	iTunes[4266]	_AMDDeviceAttachedCallbackv3 (thread 0xb07ae000): Device 'AMDevice 0x1cb7c660 {UDID = 57b3bba74499c9f82abccd98c5cad96958:77:79:2d:a8@fe80::8e58:77ff:fe79:2da8._apple-mobdev._tcp.local.}' attached.
4/17/12 9:41:52 PM	ath[4579]	_AMDDeviceAttachedCallbackv3 (thread 0x7fff708e9cc0): Device 'AMDevice 0x101921fa0 {UDID = 57b3bba74499c9f82abccd98c5cad96958:77:79:2d:a8@fe80::8e58:77ff:fe79:2da8._apple-mobdev._tcp.local.}' attached.
4/17/12 9:41:54 PM	AppleMobileDeviceHelper[4528]	_AMDDeviceDetached (thread 0xa0ae1540): Device 'AMDevice 0x28137d0 {UDID = 57b3bba74499c9f82abccd98c5cad969671ffe27, d
4/17/12 9:42:00 PM	com.apple.usbmuxd[4264]	_SendDetachNotification (thread 0x7fff708e9cc0): sending detach for device 1c:ab:a7:a4:c6:c6@fe80::1eab:a7ff:fea4:c6c6
4/17/12 9:42:00 PM	usbmuxd[4264]	AMDeviceConnect (thread 0x1005af000): Could not connect to lockdown port (62078) on device 40 - 7538f1e80207d212a6f4f8
4/17/12 9:42:00 PM	usbmuxd[4264]	_AMDevicePreflightWorker (thread 0x1005af000): Pair worker could not connect to lockdown on device 40: 0xe8000065.
4/17/12 9:42:23 PM	com.apple.usbmuxd[4264]	_SendDetachNotification (thread 0x7fff708e9cc0): sending detach for device 8c:58:77:79:2d:a8@fe80::8e58:77ff:fe79:2da8
4/17/12 9:42:23 PM	iTunes[4266]	_AMDDeviceDetached (thread 0xb07ae000): Device 'AMDevice 0x1cb7c660 {UDID = 57b3bba74499c9f82abccd98c5cad969671ffe27, mobdev._tcp.local.}' detached.
4/17/12 9:42:23 PM	iTunes[4266]	_NotificationSocketReadCallbackGCD (thread 0xa0ae1540): Unexpected connection closure...
4/17/12 9:42:23 PM	ath[4579]	_AMDDeviceDetached (thread 0x7fff708e9cc0): Device 'AMDevice 0x101921fa0 {UDID = 57b3bba74499c9f82abccd98c5cad969671ffe27, mobdev._tcp.local.}' detached.
4/17/12 9:57:37 PM	com.apple.usbmuxd[4264]	_SendAttachNotification (thread 0x7fff708e9cc0): sending attach for device 8c:58:77:79:2d:a8@fe80::8e58:77ff:fe79:2da8
4/17/12 9:57:37 PM	usbmuxd[4264]	_AMDeviceConnectByAddressAndPort (thread 0x1005af000): IPv4
4/17/12 9:57:38 PM	ath[4527]	_AMDDeviceAttachedCallbackv3 (thread 0x7fff708e9cc0): Device 'AMDevice 0x1019349d0 {UDID = 57b3bba74499c9f82abccd98c5cad96958:77:79:2d:a8@fe80::8e58:77ff:fe79:2da8._apple-mobdev._tcp.local.}' attached.
4/17/12 9:57:38 PM	iTunes[4266]	_AMDDeviceAttachedCallbackv3 (thread 0xb07ae000): Device 'AMDevice 0x1cf131a0 {UDID = 57b3bba74499c9f82abccd98c5cad96958:77:79:2d:a8@fe80::8e58:77ff:fe79:2da8._apple-mobdev._tcp.local.}' attached.
4/17/12 9:57:38 PM	ath[4579]	_AMDDeviceAttachedCallbackv3 (thread 0x7fff708e9cc0): Device 'AMDevice 0x100511540 {UDID = 57b3bba74499c9f82abccd98c5cad96958:77:79:2d:a8@fe80::8e58:77ff:fe79:2da8._apple-mobdev._tcp.local.}' attached.
4/17/12 10:02:36 PM	com.apple.backupd[4818]	Starting standard backup
4/17/12 10:02:36 PM	com.apple.backupd[4818]	Backing up to: /Volumes/Erased/Backups.backupdb
4/17/12 10:03:01 PM	com.apple.backupd[4818]	No pre-backup thinning needed: 3.61 GB requested (including padding), 196.20 GB available
4/17/12 10:03:49 PM	com.apple.backupd[4818]	Copied 41265 files (184.6 MB) from volume Macintosh HD.
4/17/12 10:03:54 PM	com.apple.backupd[4818]	No pre-backup thinning needed: 3.40 GB requested (including padding), 196.01 GB available
4/17/12 10:04:12 PM	com.apple.backupd[4818]	Copied 2346 files (2.2 MB) from volume Macintosh HD.
4/17/12 10:04:15 PM	com.apple.backupd[4818]	Starting post-backup thinning
4/17/12 10:05:13 PM	com.apple.backupd[4818]	Deleted backup /Volumes/Erased/Backups.backupdb/Mig_iMac/2012-04-16-212755: 196.20 GB now available
4/17/12 10:05:13 PM	com.apple.backupd[4818]	Post-back up thinning complete: 1 expired backups removed
4/17/12 10:05:13 PM	com.apple.backupd[4818]	Backup completed successfully.
4/17/12 10:06:28 PM	com.apple.usbmuxd[4264]	_SendAttachNotification (thread 0x7fff708e9cc0): sending attach for device 1c:ab:a7:a4:c6:c6@fe80::1eab:a7ff:fea4:c6c6
4/17/12 10:06:32 PM	usbmuxd[4264]	_AMDeviceConnectByAddressAndPort (thread 0x1005af000): IPv4
4/17/12 10:06:32 PM	ath[4579]	_AMDDeviceAttachedCallbackv3 (thread 0x7fff708e9cc0): Device 'AMDevice 0x1005123d0 {UDID = 7538f1e80207d212a6f4f89c376e17371c:ab:a7:a4:c6:c6@fe80::1eab:a7ff:fea4:c6c6._apple-mobdev._tcp.local.}' attached.
4/17/12 10:06:32 PM	iTunes[4266]	_AMDDeviceAttachedCallbackv3 (thread 0xb07ae000): Device 'AMDevice 0x1d2a6e10 {UDID = 7538f1e80207d212a6f4f89c376e17371c:ab:a7:a4:c6:c6@fe80::1eab:a7ff:fea4:c6c6._apple-mobdev._tcp.local.}' attached.
4/17/12 10:06:51 PM	com.apple.usbmuxd[4264]	_SendDetachNotification (thread 0x7fff708e9cc0): sending detach for device 1c:ab:a7:a4:c6:c6@fe80::1eab:a7ff:fea4:c6c6
4/17/12 10:06:51 PM	iTunes[4266]	_AMDDeviceDetached (thread 0xb07ae000): Device 'AMDevice 0x1d2a6e10 {UDID = 7538f1e80207d212a6f4f89c376e1737aeb3c5d8, mobdev._tcp.local.}' detached.
4/17/12 10:06:51 PM	iTunes[4266]	_NotificationSocketReadCallbackGCD (thread 0xa0ae1540): Unexpected connection closure...
4/17/12 10:06:51 PM	ath[4579]	_AMDDeviceAttachedCallbackv3 (thread 0x7fff708e9cc0): Device 'AMDevice 0x10050eb70 {UDID = 57b3bba74499c9f82abccd98c5cad96958:77:79:2d:a8@fe80::8e58:77ff:fe79:2da8._apple-mobdev._tcp.local.}' attached.



apple-mobdev._tcp.local

About 803 results (0.49 seconds)

[iTunes "Sync WiFi" \(iPhone4\) and infinite WiFi logs/callback, you ...](#)

[forums.macrumors.com](#) > ... > [Mac OS X](#) > [Mac OS X 10.7 Lion](#)

Oct 18, 2011 – `_apple-mobdev._tcp.local`: _BrowseReplyReceivedCallback got bonjour removal. 18/10/11 15:28:14642 com.apple.usbmuxd: ...

[Display Problem](#) - Apr 8, 2012

[Woke Up To Mini Shut Down](#) - Jan 20, 2012

[iOS5 and battery life](#) - Oct 17, 2011

[More results from forums.macrumors.com »](#)

[Weird System Log Error: Apple Support Communities](#)

<https://discussions.apple.com/thread/3399638?start=0&tstart=0>

Dec 19, 2011 – `_apple-mobdev._tcp.local`: _BrowseReplyReceivedCallback got bonjour removal. Oct 16 15:28:56 Athena com.apple.usbmuxd[34]: ...

[Lion:WiFi not autoconnecting after...: Apple Support Communities](#) - Apr 14, 2012

[iPhone 4S not recognized by iTunes for...: Apple Support ...](#) - Apr 5, 2012

[So many problems with iTunes Match...: Apple Support ...](#) - Apr 4, 2012

[Having problems importing and editing...: Apple Support ...](#) - Mar 26, 2012

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[osx - How to fix message spam from usbmuxd in console ...](#)

[apple.stackexchange.com/.../how-to-fix-message-spam-from-usbmux...](#)

`_apple-mobdev._tcp.local`: _BrowseReplyReceivedCallback got bonjour removal. 11.01.12 21:21:46596 com.apple.usbmuxd: _SendAttachNotification (thread ...

[XYMer's Home away from Home • View topic - Empty zombie folder c...](#)

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25 posts - 5 authors - Dec 27, 2011

`_apple-mobdev._tcp.local`: _BrowseReplyReceivedCallback got bonjour removal. 12/27/11 12:23:18 PM com.apple.usbmuxd[19] ...

[Mac Mini lockups :\(- Mac-Forums.com](#)

[www.mac-forums.com/forums/apple.../264090-mac-mini-lockups.ht...](#)

4 posts - 2 authors - Jan 19

`_apple-mobdev._tcp.local`: attached. 19/01/12 9:11:31.085 PM com.apple.usbmuxd: _SendDetachNotification (thread 0x7fff7cc6a960): ...



How to fix message spam from usbmuxd in console (_SendDetachNotification/_SendAttachNotification)



4



2



My console is flooded with messages like these:

```
11.01.12 21:21:39,819 com.apple.usbmuxd: _SendDetachNotification (thread 0x7fff7f6cb960): se
11.01.12 21:21:46,596 com.apple.usbmuxd: _SendAttachNotification (thread 0x7fff7f6cb960): se
11.01.12 21:21:46,729 usbmuxd: _AMDeviceConnectByAddressAndPort (thread 0x100781000): IPv4
```

They always happen in this combination of three messages and around every 10-30seconds

Any suggestions where this is coming from and how to fix/disable it?

Edit: (additional Infos)

Ok it seems to be originating from my iPhone (MAC `d0:23:db:3e:0b:82`)...

There are no Wifi-Printers or anything like that in the Network.
And the Messages are still there when all USB Devices are disconnected.

Edit2:

This seems to be coming from iPhone Wifi-Sync, is there any way to get rid of this spam without disabling Wifi-Sync for the phone?

[osx](#) [lion](#) [iphone](#) [ios](#) [console](#)

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edited [Jan 18 at 11:05](#)

asked Jan 11 at 20:30



[bardiir](#)
83 8

welcome!

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asked **3 months ago**

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active **20 days ago**

Web Resources

[**http://www.macenterprise.org**](http://www.macenterprise.org)

[**http://www.omnigroup.com/mailman/listinfo**](http://www.omnigroup.com/mailman/listinfo)

[**https://lists.apple.com/mailman/listinfo**](https://lists.apple.com/mailman/listinfo)

[**https://discussions.apple.com/**](https://discussions.apple.com/)

[**http://consultants.apple.com/**](http://consultants.apple.com/)

[**http://macintouch.com/**](http://macintouch.com/)

[**http://www.afp548.com/**](http://www.afp548.com/)

[**http://xlr8yourmac.com/**](http://xlr8yourmac.com/)

[**http://apple.stackexchange.com/**](http://apple.stackexchange.com/)

[**http://macfixit.com/**](http://macfixit.com/)

[**http://hints.macworld.com/**](http://hints.macworld.com/)

[**http://www.commandlinefu.com/**](http://www.commandlinefu.com/)

[**http://www.macsurfer.com/**](http://www.macsurfer.com/)

[**http://www.macobserver.com/tmo/features/tmo_quick_tip/**](http://www.macobserver.com/tmo/features/tmo_quick_tip/)

Troubleshooting Physical Tools

- Ext. drives with various systems/
installers/updaters
- Network / tone / ground tester. Cables!
- Don't be stingy with good drivers
- Real champ? Carry spare RAM!
- Real champ with strong back? Spare UPS!



Voyager Q



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2. Hinged flap for 3.5" drive access
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4. Status LED:
Blue = Power
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5. Power receptacle
6. USB 3.0/2.0/1.1 port
7. eSATA port
8. Two FireWire 800 (1394b) ports
9. FireWire 400 (1394a) port



**Works with
Macs AND PCs!**

Built-in Tools

- Disk Utility
- Activity Monitor
- System Info / Profiler
- Console
- Terminal

TextWrangler

TextWrangler is the "little brother" to [BBEdit](#), our leading professional HTML and text editor for the Macintosh.

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- [Programmer's Text Editor](#)
- [Unix And Server Administrator's Tool](#)
- [Powerful Text Transformer And Manipulator](#)
- [Good Mac OS Citizen](#)
- [Powerfully Useful Tool](#)

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atMonitor

Mac OS X System Monitor and Process Explorer Tool

atMonitor is the most advanced monitoring tool for Mac OS X that displays system activity in real-time. It is designed to allow quick assessment of computer's state and it is powerful enough to make it a core utility in anyone's system troubleshooting toolkit.

atMonitor offers a better alternative to Apple's own "Activity Monitor" and combines the best of the features of many other existing monitoring utilities. It also adds an extensive list of unique features of its own. In addition to the standard CPU, GPU, VRAM, FPS, Disk and Network info, atMonitor allows interaction with processes, setting up triggers, logging, purging RAM and much more. atMonitor can be displayed in the menu bar, as a stand alone floating window or in the dock icon.



MacTracker

get info on any mac

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from the Mac App Store

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Mac OS X 10.5.4 or later

MacTracker provides detailed information on every Apple Macintosh computer ever made, including items such as processor speed, memory, optical drives, graphic cards, supported Mac OS versions, and expansion options. Also included is information on Apple mice, keyboards, displays, printers, scanners, digital cameras, iPod, Apple TV, iPhone, iPad, Wi-Fi Cards/Base Stations, Newton, iOS and Mac OS versions.





VLC media player

VLC is a free and open source cross-platform multimedia player and framework that plays most multimedia files as well as DVD, Audio CD, VCD, and various streaming protocols.

Features

Screenshots

Skins



Download VLC

Version 2.0.1 • Mac OS X • 34 MB

Other Systems and Versions

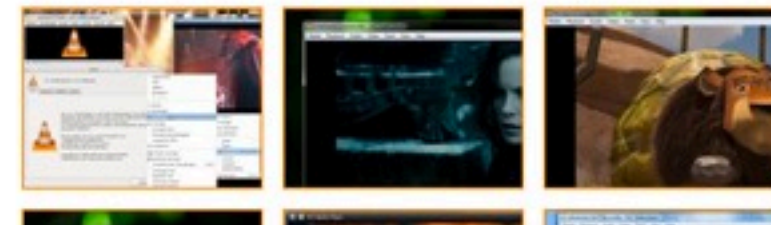
Features

Simple, Powerful and Fast

Plays **everything**, Files, Discs (DVD, CD, VCD, Blu-Ray), Webcams and Streams

Plays most codecs with **no codec packs** needed:
MPEG-2 H.264 DivX MPEG-4 WebM WMV player

Screenshots



🏠 » [Extensions](#) » Adblock Plus



Adblock Plus 2.0.3

by [Wladimir Palant](#)

Annoyed by adverts? Troubled by tracking? Bothered by banners? Install Adblock Plus now to regain control of the internet and change the way that you view the web.

A short video overview is available at <http://www.youtube.com/watch?v=oNvb2SjVjjI>

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Works with Firefox 3.6.13 - 14.0a1 · [View other versions](#)



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What you have to learn

- Files & Permissions
- OS X standard directories
- Single user mode
- Terminal commands
- What OS X can do for you

What you should learn

- CUPS localhost:631
- dscacheutil -flushcache
- dd and GNU ddrescue
- fs_usage tcpdump -vv -i eno
- redirect output to text file for uber-manipulation

dir_test2.txt

Last Saved: 4/18/12 12:15:38 AM
File Path: ~/Desktop/mig_preso/dir_test2.txt

```

1 total 36624
2 drwxr-xr-x@ 5 root admin 170 Dec 22 2007 -OLD DESKTOPS -02-05
3 drwxr-xr-x 42 root admin 1428 Mar 24 2009 .
4 drwxr-xr-x 13 root admin 510 Apr 16 14:04 ..
5 -rw-r--r-- 1 root admin 7452 Oct 18 2006 .583-182879591-1.rtf
6 -rw-r--r-- 1 root admin 8685 Oct 19 2006 .583-182981759-3.rtf
7 -rw-rw-r--@ 1 root admin 21500 Apr 15 16:37 .DS_Store
8 drwx-----@ 5 root admin 170 Feb 27 16:12 .Spotlight-V100
9 -rw-rw-rw-@ 1 root admin 11797888 Sep 26 2007 .SymAVQSFil
10 drwxrwxrwt@ 3 root admin 102 Oct 12 2007 .TemporaryItems
11 d-wx-wx-wt@ 3 root admin 102 Mar 28 15:32 .Trashes
12 -rw-r--r-- 1 root admin 0 Mar 24 2009 .com.apple.timemachine.supported
13 drwx----- 9 root admin 306 Feb 27 16:12 .fsevents
14 -r--r--r--@ 1 root admin 156 Dec 8 2003 .hidden
15 -rw-----@ 1 root admin 131072 May 12 2006 .hotfiles.btree
16 -rw-r--r-- 1 root admin 0 Apr 21 2007 .symSchedScanLockxz
17 dr-xr-xr-x 2 root admin 68 Oct 12 2007 .vol
18 drwxrwxr-x@ 91 root admin 3094 Oct 12 2007 Applications
19 -rw-rw-rw-@ 1 root admin 512 Nov 16 2004 Auth-DigitalPerformer 4.5
20 drwx----- 3 root admin 102 Jan 22 2008 Desktop
21 -rw-r--r--@ 1 root admin 192512 Sep 3 2007 Desktop DB
22 -rw-r--r--@ 1 root admin 1609058 Aug 28 2007 Desktop DF
23 drwxrwxr-x@ 2 root admin 68 Sep 26 2003 Desktop Folder
24 drwxrwxr-t@ 50 root admin 1700 Oct 12 2007 Library
25 drwxr-xr-x@ 2 root admin 68 Oct 12 2007 Network
26 drwxr-xr-x 4 root admin 136 Oct 12 2007 System
27 drwxr-xr-x@ 51 root admin 1734 Oct 12 2007 System Folder
28 drwxr-xr-x@ 17 root admin 578 Oct 12 2007 THE80's
29 drwxrwxr-t 10 root admin 340 Oct 24 2007 Users
30 drwxr-xr-x@ 4 root admin 136 Oct 12 2007 automount
31 drwxr-xr-x@ 40 root admin 1360 Oct 12 2007 bin
32 drwxrwxr-t@ 2 root admin 68 Dec 8 2003 cores
33 dr-xr-xr-x@ 2 root admin 68 Oct 12 2007 dev
34 lrwxr-xr-x@ 1 root admin 11 Mar 28 16:08 etc -> private/etc
35 drwxr-xr-x@ 170 root admin 5780 Nov 18 2007 iPodDump
36 lrwxr-xr-x@ 1 root admin 9 Mar 28 16:28 mach -> /mach.sym
37 -r--r--r--@ 1 root admin 603980 Oct 12 2007 mach.sym
38 -rw-r--r--@ 1 root admin 4347724 Feb 22 2007 mach_kernel
39 drwxr-xr-x@ 12 root admin 408 Oct 12 2007 other
40 drwxr-xr-x@ 6 root admin 204 Oct 12 2007 private
41 drwxr-xr-x@ 64 root admin 2176 Oct 12 2007 sbin
42 drwxr-xr-x@ 59 root admin 2006 Jan 20 2008 theripperc
43 drwxr-xr-x@ 14 root admin 476 Jan 22 2008 tv-video
44
45 /Volumes/465c/-OLD DESKTOPS -02-05:
46 total 16
    
```

(none) | Unicode (UTF-8) | Unix (LF) | 2,644 / 474 / 43

dir_test1.txt

Last Saved: 4/18/12 12:15:36 AM
File Path: ~/Desktop/mig_preso/dir_test1.txt

```

1 total 36640
2 drwxr-xr-x@ 5 admin admin 170 Dec 22 2007 -OLD DESKTO
3 drwxr-xr-x 49 _unknown _unknown 1734 Mar 24 2009 .
4 drwxrwxr-t@ 6 root admin 204 Apr 17 00:29 ..
5 -rw-r--r-- 1 macports admin 7452 Oct 18 2006 .583-182879
6 -rw-r--r-- 1 macports admin 8685 Oct 19 2006 .583-182981
7 -rw-rw-r--@ 1 admin admin 21500 Apr 15 16:35 .DS_Store
8 drwx-----@ 5 root admin 170 Feb 27 16:12 .Spotlight-
9 -rw-rw-rw-@ 1 root admin 11797888 Sep 26 2007 .SymAVQSFil
10 drwxrwxr-t@ 3 admin admin 102 Oct 12 2007 .Temporaryl
11 d-wx-wx-wt@ 3 root admin 102 Apr 17 00:29 .Trashes
12 -rw-r--r-- 1 _unknown _unknown 0 Mar 24 2009 .com.apple.
13 drwx----- 11 _unknown _unknown 374 Apr 15 16:36 .fsevents
14 -r--r--r--@ 1 root wheel 156 Dec 8 2003 .hidden
15 -rw-----@ 1 root admin 131072 May 12 2006 .hotfiles.b
16 -rw-r--r-- 1 admin admin 0 Apr 21 2007 .symSchedSc
17 dr-xr-xr-x 2 root wheel 68 Oct 12 2007 .vol
18 drwxrwxr-x@ 91 root admin 3094 Oct 12 2007 Application
19 -rw-rw-rw-@ 1 admin admin 512 Nov 16 2004 Auth-Digito
20 drwx----- 3 _unknown _unknown 102 Jan 22 2008 Desktop
21 -rw-r--r--@ 1 root admin 192512 Sep 3 2007 Desktop DB
22 -rw-r--r--@ 1 root admin 1609058 Aug 28 2007 Desktop DF
23 drwxrwxr-x@ 2 root admin 68 Sep 26 2003 Desktop Fol
24 drwxrwxr-t@ 50 root admin 1700 Oct 12 2007 Library
25 drwxr-xr-x@ 2 root wheel 68 Oct 12 2007 Network
26 drwxr-xr-x 4 root wheel 136 Oct 12 2007 System
27 drwxr-xr-x@ 51 admin admin 1734 Oct 12 2007 System Fola
28 drwxr-xr-x@ 17 admin admin 578 Oct 12 2007 THE80's
29 drwxrwxr-t 10 root admin 340 Oct 24 2007 Users
30 drwxr-xr-x@ 4 root admin 136 Oct 12 2007 automount
31 drwxr-xr-x@ 40 root wheel 1360 Oct 12 2007 bin
32 drwxrwxr-t@ 2 root admin 68 Dec 8 2003 cores
33 dr-xr-xr-x@ 2 root wheel 68 Oct 12 2007 dev
34 lrwxr-xr-x@ 1 root admin 11 Oct 12 2007 etc -> priv
35 drwxr-xr-x@ 170 _unknown _unknown 5780 Nov 18 2007 iPodDump
36 lrwxr-xr-x@ 1 root admin 9 Oct 12 2007 mach -> /ma
37 -r--r--r--@ 1 root admin 603980 Oct 12 2007 mach.sym
38 -rw-r--r--@ 1 root wheel 4347724 Feb 22 2007 mach_kernel
39 drwxr-xr-x@ 12 admin macports 408 Oct 12 2007 other
40 drwxr-xr-x@ 6 root wheel 204 Oct 12 2007 private
41 drwxr-xr-x@ 64 root wheel 2176 Oct 12 2007 sbin
42 drwxr-xr-x@ 59 _unknown _unknown 2006 Jan 20 2008 theripperc
43 drwxr-xr-x@ 14 _unknown _unknown 476 Jan 22 2008 tv-video
44
45 /Volumes/465c/-OLD DESKTOPS -02-05:
46 total 16
    
```

(none) | Unicode (UTF-8) | Unix (LF) | 2,938 / 471 / 43

Differences

New File: ~/Desktop/mig_preso/dir_test2.txt | Apply | Apply → | Old File: ~/Desktop/mig_preso/dir_test1.txt

Nonmatching Lines (File dir_test2.txt; Line 1:43; File dir_test1.txt; Line 1:43)

Nonmatching Lines (File dir_test2.txt; Line 47:51; File dir_test1.txt; Line 47:51)

Nonmatching Lines (File dir_test2.txt; Line 55:89; File dir_test1.txt; Line 55:89)



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10 Things

10 Linux rescue tools for recovering Linux, Windows, or Mac machines

By [Jack Wallen](#)

April 14, 2010, 8:39 AM PDT

Takeaway: When you're dealing with a system that won't boot, you need a robust and dependable recovery tool. Here are a few Linux tools that might save the day.

Our consulting firm has had a rash of problems recently that required the help of Linux rescue tools. From corrupt partition tables to severely infected machines, Linux tools come in handy when the host system won't boot. But because of the plethora of tools available, it's sometimes tough to sift through the cruft and find the ones that are usable. So I decided to highlight some of the better tools. I hope one or two of them will find their way to your toolkit.

Thank You

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