

# TESTING USB PORTS, CABLES, AND EQUIPMENT

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# SUMMARY

Using three free software programs, you can test USB ports, cables, and equipment in order to resolve problems:

"USBTreeView",

"FlashBench",

and

"CrystalDiskMark Portable"

# USING THREE FREE SOFTWARE PROGRAMS

# TOPICS

- Using Three Free Programs To Analyse USB Equipment
- Using "USBTTreeView"
- Using "FlashBench"
- Using "CrystalDiskMark Portable"

# USING THREE FREE PROGRAMS TO ANALYZE USB EQUIPMENT

- Use the free "USBTTreeView" software program to check for basic functioning and stability
- Use the free "FlashBench" software program to put a "USB 2" or "USB 3" port through a series of real world tests

# USING THREE FREE PROGRAMS TO ANALYZE USB EQUIPMENT (continued)

- Use the free "CrystalDiskMark Portable" software program for more extensive comparison testing

# USING "USBTreeView"

- Use the free "USBTreeView" software program to check for basic functioning and stability:
  - ❖ Is the USB 2 port running in the USB 2 format or did it step down to USB 1 format?
  - ❖ Is the USB 3 port running in the USB 3 format or did it step down to USB 2 format?



# USING "USBTreeView" (continued)

- ❖ Does the USB 3 port or cable fail intermittently?
- ❖ Is the external equipment failing intermittently?

# USING "USBTreeView" (continued)

- To download "USBTreeView", go to [http://www.uwe-sieber.de/usbtreeview\\_e.html](http://www.uwe-sieber.de/usbtreeview_e.html)

# USING "FlashBench"

- Use the free "FlashBench" software program to put a "USB 2" or "USB 3" port through a series of real world tests:  
"Writes" and "Reads" of real files to a USB flash drive, a mechanical hard drive, or a solid state drive (SSD).

# USING "FlashBench" (continued)

- To download "FlashBench", go to <http://usbflashspeed.com/>
- To learn more about "FlashBench", go to <http://www.pcworld.com/article/2455205/test-the-speed-of-your-usb-drives.html>

# USING "CRYSTALDISKMARK" SOFTWARE

- Use the free "CrystalDiskMark Portable" software program for more extensive comparison testing:
  - ❖ Generate accepted benchmark values used by hard drive and hard drive enclosure manufacturers.

# USING "CRYSTALDISKMARK" SOFTWARE

- ❖ Make accurate comparisons of the data transmission speeds of different models of hard drive enclosures, PCIe-based USB cards, and different modes of USB cables.

# USING "CRYSTALDISKMARK" SOFTWARE (continued)

Use the 64-bit "Portable Edition" of "CrystalDiskMark" since it is malware-free.

Do not use the non-portable version of "CrystalDiskMark" since it installs the "OpenCandy" adware malware into your "Windows" computer.

# USING "CRYSTALDISKMARK" SOFTWARE (continued)

The 64-bit version of  
"Portable Edition" of  
"CrystalDiskMark 3" is safe,  
malware-free freeware from  
<http://crystalmark.info/download/index-e.html>



# USING "CRYSTALDISKMARK" SOFTWARE (continued)

For more information about  
"OpenCandy" malware in some  
versions of

<http://forum.notebookreview.com/solid-state-drives-ssds-flash-storage/574195-crystaldiskmark-3-0-installs-adware-opencandy.html>

# USING "CRYSTALDISKMARK" SOFTWARE (continued)

and

<http://www.microsoft.com/security/portal/Threat/Encyclopedia/Entry.aspx?Name=Adware%3AWin32%2FOpenCandy>

# USING "CRYSTALDISKMARK" SOFTWARE (continued)

The tech support department of the Acronis company recommends the use CrystalDiskMark as a standardized test for their customers to run.

See

<http://kb.acronis.com/content/19463>

# USING "CRYSTALDISKMARK" SOFTWARE (continued)

See also

[http://pcstats.com/articleview.cfm?articleid=2718  
&page=2](http://pcstats.com/articleview.cfm?articleid=2718&page=2)

and

<http://www.rarst.net/software/crystaldiskmark/>

and

<http://www.blogtechnika.com/crystaldiskmark-is-affective-hard-drive-benchmarking-tool>