Sign in with
Sign up | Sign in

TAGS: Graphics Cards CPUs Motherboards Windows 8 Cases Cooling Tablets Notebooks Monitors More ▼





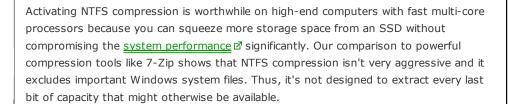
Tom's Hardware SSD SSD Review

Freeing Up Capacity On An SSD With NTFS Compression



By Manuel Masiero, Achim Roos NOVEMBER 30, 2011 9:00 PM

11. Should You Compress Data On Your SSD?



But it's precisely this approach that ensures the processor is not too heavily loaded. Users with a modern dual- or quad-core CPU should not notice the additional load incurred by enabling compression. Due to the generally lower <u>performance</u> available from notebooks, the same wouldn't necessarily hold true on mobile systems. Depending on the hardware, compression could both impact speed and take away battery life as a result of a higher processing load.





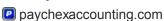
Backup tools should have no problems with compression, since the feature has already been integrated in NTFS for more than a decade, and is consequently well known to the <u>developers</u> of imaging software. We can't give you an overarching go-ahead, but we did run backups of our compressed system partition using Acronis True Image Home 2011 without any problems at all.

Best offers

Most popular Articles

- CyberpowerPC Intros New Fang Mini Series
- 2 Microsoft Surface Mini May Be Revealed May 20
- 3 Lenovo's New Chromebook Features 300-degree Hinge
- 4 LG Chromebase All-in-One Chrome OS Desktop Coming Soon
- MSI Ships GS70 Stealth Pro, GS60

Simple Invoice Management



30-Day Free Trial. Then Just \$27/mo No Per User Fees. Sign Up Now!

Despite moderate compression rates, NTFS compression does indeed conjure up some much needed free SSD space. On our test system, it gave us back an impressive 12.5 GB. This is a <u>benefit</u> \square to small SSDs, in particular. If you're only talking about a 60 or 100 GB drive, reclaiming more than 10 GB is huge. Owners of large SSDs should keep NTFS compression in mind too, though. So long as you have a fast-enough processor, there's no reason to *not* consider enabling it.

Ultimately, the amount of capacity you free up depends on the type of $\underline{\text{data}} \ \overline{\text{d}}$ you're compressing. Most media is already compressed, so there isn't much savings available there. However, compressible files like server logs and Excel data will yield a lot more space.

There's one more point to consider, though. With information being compressed on the fly, you're consuming more of an SSD's available write cycles than if you were writing the files uncompressed. This could have negative implications on the drive's endurance. Although we're not necessarily concerned about larger SSDs, models with less capacity inherently have lower endurance ratings. Thus, NTFS compression could conceivably affect their useful lives more significantly.

PREVIOUS **C**





NEX1

Looking for backup?



Learn why Unitrends has a 98% satisfaction rate - try it free now

SUMMARY

- 1. More SSD Capacity Through NTFS Compression
- 2. NTFS Is 19 Years Old
- 3. Test Setup And Benchmarks
- 4. NTFS Compression In Practice
- $5. \ \ Benchmark\ Results \colon Sequential\ Read\ And\ Write\ (CrystalDiskMark)$
- 6. Benchmark Results: 4 KB Random Reads/Writes (CrystalDiskMark)
- 7. Benchmark Results: 512 KB Random Reads/Writes (CrystalDiskMark)
- 8. Benchmark Results: Launching Applications, Windows Startup And Shutdown
- 9. Benchmark Results: PCMark 7
- 10. Benchmark Results: SYSmark 2012
- >11. Should You Compress Data On Your SSD?

Ghost Pro 3K Notebooks

Featured Topics



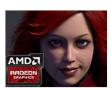
Haswell And Richland Memory Scaling: Picking A 16 GB DDR3...



Best SSDs For The Money: April 2014 -Best SSDs For The...



Experiment: Can Adding RAM Improve Your SSD's Endurance? -...



CrossFire: The Elder Scrolls V: Skyrim At 7680x1440 -...



These Are The 10 Sexiest CEOs (The Richest)



The 14 Top Picks For Hillarys Running Mate (Democrat Cafe)



Small Biz 101--Sell the Way Your Customers Want to Buy (Yesware)



4 Reasons Why GM's New Trucks Are Struggling to Succeed (Wall St. Cheat Stre...

Recommended by

React To This Article



Add Your Comment



Related Content

I-O Data Announces SSDN-3V Series SSD - NEWS

Flash drive holds 8 GB of compressed data - NEWS

Intel Issues SSD Firmware Fix for Data Corruption - NEWS

A-DATA to OCZ: 64MB Cache on SSD? Easy - NEWS

A-Data Announces Big 500 GB SSD - NEWS

A-Data Launches New SSD RAID Enclosure - NEWS

MPEG Issues Draft For More Efficient Video Compression - NEWS

Is Simulation The Ultimate Way To Compress Music Files? - NEWS

Imagination Upgrades PowerVR's GPU Texture Compression - NEWS

Toshiba Intros Canvio AeroMobile Wireless SSD - NEWS

AMD, Toshiba Rumored to be Teaming Up for Branded SSD - \mathtt{NEWS}

Plextor Announces Speedy M6e PCIe SSD - NEWS

Freeing Up Capacity On An SSD With NTFS Compression - REVIEW

Should You Upgrade? From A Hard Drive To An SSD - REVIEW

 $Compression\ Performance {:}\ 7\text{-}Zip,\ MagicRAR,\ WinRAR,\ WinZip\ -\ REVIEW$

Plextor M6e 256 GB PCI Express SSD Review: M.2 For Your Desktop - REVIEW Micron M500DC 800 GB SSD Review: Cloud And Web 2.0 Storage - REVIEW

Tom's Hardware Around the World

DENMARK NORWAY
FINLAND RUSSIA
FRANCE TURKEY
GERMANY UK
ITALY USA



About Tom's Hardware
ADVERTISING | ABOUT US | CONTACT | PRIVACY | LEGAL

Copyright © 2014 A Purch Company. All Rights Reserved

Ad choices

