

## Re: Copying NTFS Hard Links and Junctions to and from CD/DVD

**Source:**

[http://www.tech-archive.net/Archive/Win2000/microsoft.public.win2000.file\\_system/2004-02/0194.html](http://www.tech-archive.net/Archive/Win2000/microsoft.public.win2000.file_system/2004-02/0194.html)

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**From:** Leonard Severt [MSFT] ([leons\\_at\\_online.microsoft.com](mailto:leons_at_online.microsoft.com))

**Date:** 02/26/04

Date: Thu, 26 Feb 2004 06:37:31 GMT

"Kevin Myers" <[KevinMyers@austin.rr.com](mailto:KevinMyers@austin.rr.com)> wrote in  
news:103n4r3tb73s1e4@corp.supernews.com:

- > Hello,
- >
- > We have a very large set of directories and files on hard disk under
- > Windows 2000 that we need to copy to CD or DVD. However, within this
- > set of directories, NTFS hard links and junctions (reparse points) are
- > used to provide alternate paths to the same files and folders
- > (essentially supporting an object-relational navigation structure
- > within the file system), and we need to duplicate those alternate
- > paths on the CD or DVD.
- >
- > The CD/DVD burning applications that I have tried all appear oblivious
- > to hard links and junctions, blindly following all paths through to
- > their lowest levels, and creating multiple copies of my files as a
- > result. That is unacceptable because the tremendous number of
- > duplicate files that are produced \*greatly\* expands the volume of data
- > that needs to be recorded, exceeding the capacity of the media. Also,
- > this situation makes it impossible to re-create the original structure
- > when copying from the CD or DVD back to the hard drive.
- >
- > Wherever possible, normal Windows shortcuts are used for our
- > application, and those don't cause any problems. However, shortcuts
- > aren't an acceptable substitute in the situations where we use NTFS
- > hard links and junctions. Among other reasons, Windows doesn't support
- > searching through a shortcut to the linked file or folder, while this
- > works fine with hard links and junctions, and that is a critical need
- > for us.
- >
- > I know that the Rock Ridge extensions to the ISO9660 CD file system
- > support both hard links and symbolic links. For our purposes, either
- > one would be an acceptable substitute for the NTFS hard links and
- > junctions that we are using, although hard links would be a more

microsoft.public.win2000.file\_system: Re: Copying NTFS Hard Links and Junctions to and from CD/DVD

- > *directly equivalent representation.*
- >
- > *1. Does anyone know how it would be possible and what software could*
- > *be used to replicate our file and directory structure onto CD or DVD,*
- > *\*including\* actual hard links in the CD file system as substitutes for*
- > *our NTFS hard links and junctions?*
- >
- > *2. Conversely, if the desired file and directory structure including*
- > *hard links can be created on CD/DVD, then does anyone know how it*
- > *would be possible and what software would be required to replicate*
- > *this structure back onto hard disk, substituting NTFS hard links and*
- > *junctions where required?*
- >
- > *Thanks greatly in advance for any help.*
- >
- > *s/KAM*
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- >

Problem is Rock Ridge is UNIX only. I don't know of anything for Windows that supports junction points on CD/DVD. Since it would have to include both file system extensions and burning support I doubt anyone has done that on their own.

Joe had mentioned using a backup program. The only other type of program I can think of is something like Winrar or Zip file. However I don't know of any programs that support junction points but that should be possible to do.

Leonard Severt

Windows 2000 Server Setup Team

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