

audiocd

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Allows treating audio CDs like a 'real' filesystem, where tracks are represented as files and, when copied from the folder, are digitally extracted from the CD. This ensures a perfect copy of the audio data.

To see how this KIO worker works, insert an audio CD in your CD-ROM drive and type **audiocd:/** into Konqueror. Within a few seconds you should see a list of tracks and some folders.

Audio CDs don't really have folders, but the audiocd KIO worker provides them as a convenience. If you look inside these folders you will see that they all contain the same number of tracks. If you are connected to the Internet, some folders will have the actual track titles shown as the filenames.

The reason that these separate folders exist are so that you can choose in which format you would like to listen to (or copy) the tracks on the CD.

If you drag a track from the Ogg Vorbis folder and drop it on another Konqueror window open at your home folder, you should see a progress window showing you that the track is being extracted from the CD and saved to a file. Note that Ogg Vorbis is a compressed format, so the file in your home folder will appear a great deal smaller than it would have been if you had copied the raw data.

The mechanism behind this is quite simple. When the audiocd KIO worker is asked to retrieve a track from the Ogg Vorbis folder, it starts extracting the digital audio data from the CD. As it sends the data over to the file in your home folder, it simultaneously encodes it in Ogg Vorbis format (CD audio is in an uncompressed format to start with).

You could also try dragging a file ending in .wav and dropping it on the KDE Media Player, JuK. In this case, the procedure that happens behind the scenes is similar, except that instead of encoding the audio data in Ogg Vorbis format, it is put through a very simple conversion, from raw binary data (which the .cda files in the toplevel folder represent) to 'RIFF WAV' format, a non-compressed format that most media players understand.

JuK should quite happily play the .wav file, but if it has trouble, you may consider using the `paranoia_level` option, explained below.

OPTIONS

device

Set the path to the audio CD device, e.g. **audiocd:/ ?device= /dev/sdc**. Normally, the KIO worker will try to find a CD drive with an audio CD inserted, but if it fails or you have more than one CD drive, you may want to try this option. Note that the configuration dialog allows you to set a default value for this option.

fileNameTemplate

Set the file name template, e.g. **audiocd:/ ?fileNameTemplate=Track \${number}**. Note that the configuration dialog allows you to set a default value for this option. A warning that if you set it to an empty string no files will show up.

albumNameTemplate

Set the album name template, e.g. **audiocd:/ ?albumNameTemplate=%{albumArtist} \${title} %{albumTitle}**. Note that the configuration dialog allows you to set a default value for this option.

niceLevel

Sets the process nice level for encoders, e.g. **audiocd:/ ?albumNameTemplate=nice Level=10**. Note that the configuration dialog allows you to set a default value for this option.

paranoia_level

Set the amount of error detection and correction used when extracting data.

Level 0

No detection or correction. Only useful if you have a perfect CD drive (unlikely).

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Level 1

Enable basic error checking and correction.

Level 2

Default. Specifies that only a perfect extraction will be accepted.

Note that there is a disadvantage to level 2. Extraction can be very slow, so real-time digital playback may not work properly. If you have a good quality CD drive (note that more expensive does not necessarily mean better quality) then you probably won't experience very slow extraction, but a poor drive may take days (!) to extract the audio from one CD.

cddbChoice

Specify which Internet CD Database entry to use. Audio CDs don't have track names, but the Internet CD Database is a clever system which uses a special unique identifier generated from the number and length of tracks on each CD to cross-reference a track listing. Track listings are contributed by the Internet community and made available to all. Occasionally there will be multiple entries. You can specify which one to use.

You can submit your own track listings using KsCD, the KDE CD player.

By default audiocd tries to pick the best one.

EXAMPLES

```
audiocd:/?device=/dev/scd0&paranoia_level=0&cddbChoice=0
```

Gives a listing of the tracks on the audio CD inserted in `/dev/scd0`, which on Linux® specifies the first SCSI CD-ROM device. If you copy tracks from the CD, digital extraction will be performed without error correction or detection. The CDDB Database entry 0 will be used.

Frequently Asked Question

1. *I get The file or folder / does not exist. How do I fix that? I have an audio CD in my drive!*

Try running `cdparanoia -vsQ` as yourself (not root). Do you see a track list? If not, make sure you have permission to access the CD device. If you're using SCSI emulation (possible if you have an IDE CD writer) then make sure you check that you have read and write permissions on the generic SCSI device, which is probably `/dev/sg0`, `/dev/sg1`, etc. If it still doesn't work, try typing `audiocd:/?device=/dev/sg0` (or similar) to tell `kio_audiocd` which device your CD-ROM is.