

Re: listening to protected audio cds

Source: <http://linux.derkeiler.com/Mailing-Lists/Fedora/2007-12/msg03814.html>

- *From:* Antonio Olivares <olivares14031@xxxxxxxxxx>
 - *Date:* Thu, 27 Dec 2007 17:58:40 -0800 (PST)
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--- Alan Cox <alan@xxxxxxxxxxxxxxxxxxxxxx> wrote:

On Sat, 22 Dec 2007 14:52:09 -0800
Konstantin Svist <fry.kun@xxxxxxxxxx> wrote:

Hi all,

Is there a way to listen to "protected" audio CDs
in Linux/Fedora?

It seems that most of the time, the CD can't be
read at all. Sometimes,

the system is able to read it after trying for 20
minutes or so – but

it's not consistent (next time it says can't read
the CD)

Why is it possible on windows but not on Linux?

Note I'm not talking about ripping CD – just
listening to them.

If you've got a corrupted piece of shiny plastic
(note the ones with
deliberate corruptions are not a 'compact disc' as
that is a trademark
reserved for describing real ones) then what happens
depends a lot on the

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disc itself

Some sneakily install windows drivers and play mp3 type copies on a PC, others have corruptions so you can play them via an audio cable but not digitally – if so cdplay will play them but not tools that digitally rip/play for better quality. Others contain corrupt headers which will just break on PC hardware.

Alan

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Has the OP tried playing using cdda2wav an example

```
$ cdda2wav -eN dev=/dev/sr0 -t1  
plays track 1 from cdrom0,
```

It can play from command line and get information from cd,

```
[olivares@localhost ~]$ cdda2wav -eN dev=/dev/sr1 -t1  
Type: ROM, Vendor 'TSSTcorp' Model 'CD/DVDW SH-S182D'  
Revision 'SB03' MMC+CDDA  
569344 bytes buffer memory requested, 4 buffers, 55  
sectors  
#icedax version 1.1.6, real time sched., soundcard,  
libparanoia support  
AUDIOtrack pre-emphasis copy-permitted tracktype  
channels  
1-22 no yes audio 2  
Table of Contents: total tracks:22, (total time  
58:13.44)  
1.( 2:23.66), 2.( 2:31.05), 3.( 2:18.09), 4.(  
2:52.00), 5.( 2:34.61),  
6.( 2:27.74), 7.( 2:34.49), 8.( 2:12.21), 9.(  
2:32.00), 10.( 2:22.62),  
11.( 2:18.64), 12.( 2:54.14), 13.( 2:52.14), 14.(  
2:51.03), 15.( 3:08.53),  
16.( 3:02.29), 17.( 2:37.74), 18.( 2:24.26), 19.(  
2:59.41), 20.( 2:39.26),  
21.( 2:41.15), 22.( 2:54.13)
```

Table of Contents: starting sectors

```
1.( 0), 2.( 10791), 3.( 22121), 4.(  
32480), 5.( 45380),  
6.( 56991), 7.( 68090), 8.( 79689), 9.(
```

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89610), 10.(101010),
11.(111722), 12.(122136), 13.(135200), 14.(
148114), 15.(160942),
16.(175095), 17.(188774), 18.(200623), 19.(
211449), 20.(224915),
21.(236866), 22.(248956), lead-out(262019)
CDINDEX discid: Chei203NkxAqGhFkNndwCrBxCt0-
Cddb discid: 0x240da516
CD-Text: detected
CD-Extra: not detected
samplefile size will be 25380476 bytes.
recording 143.8799 seconds stereo with 16 bits @
44100.0 Hz
cdda2wav: Operation not permitted. cannot set posix
realtime scheduling policy
percent_done:
4%
W Child exited with 2
[olivares@localhost ~]\$ cdda2wav --help
usage: icedax [OPTIONS ...] [trackfilenames ...]
OPTIONS:
[-c chans] [-s] [-m] [-b bits] [-r rate] [-a
divider] [-S speed] [-x]
[-t track[+endtrack]] [-i index] [-o offset]
[-d duration] [-F] [-G]
[-q] [-w] [-v vopts] [-R] [-P overlap] [-B]
[-T] [-C input-endianess]
[-e] [-n sectors] [-N] [-J] [-L cddb-mode]
[-H] [-g] [-l buffers] [-D cd-device]
[-I interface] [-K sound-device] [-O
audiotype] [-E output-endianess]
[-A auxdevice] [-paranoia]
[-cddb-server=name] [-cddb-port=port] [-version]
(-D) dev=device set the cdrom or scsi
device (as Bus,Id,Lun).
(-A) auxdevice=device set the aux device
(typically /dev/cdrom).
(-K) sound-device=device set the sound device
to use for -e (typically /dev/dsp).
(-I) interface=interface specify the interface
for cdrom access.
(generic_scsi or cooked_ioctl).
(-c) channels=channels set 1 for mono, 2 or s
for stereo (s: channels swapped).
(-s) -stereo select stereo
recording.
(-m) -mono select mono recording.
(-x) -max select maximum quality
(stereo/16-bit/44.1 KHz).
(-b) bits=bits set bits per sample
per channel (8, 12 or 16 bits).

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(-r) rate=rate set rate in samples per second. -R gives all rates
(-a) divider=divider set rate to 44100Hz / divider. -R gives all rates
(-R) -dump-rates dump a table with all available sample rates
(-S) speed=speedfactor set the cdrom drive to a given speed during reading
(-P) set-overlap=sectors set amount of overlap sampling (default is 0)
(-n) sectors-per-request=secs read 'sectors' sectors per request.
(-l) buffers-in-ring=buffers use a ring buffer with 'buffers' elements.
(-t) track=track[+end track] select start track (option. end track).
(-i) index=index select start index.
(-o) offset=offset start at 'offset' sectors behind start track/index. one sector equivalent 1/75 second.
(-O) output-format=audiotype set to wav, au (sun), cdr (raw), aiff or aifc format.
(-C) cdrom-endianess=endian set little, big or guess input sample endianess.
(-E) output-endianess=endian set little or big output sample endianess.
(-d) duration=seconds set recording time in seconds or 0 for whole track.
(-w) -wait wait for audio signal, then start recording.
(-F) -find-extremes find extrem amplitudes in samples.
(-G) -find-mono find if input samples are mono.
(-T) -deemphasize undo pre-emphasis in input samples.
(-e) -echo echo audio data to sound device (see -K) SOUND_DEV.
(-v) verbose-level=optlist controls verbosity (for a list use -vhelp).
(-N) -no-write do not create audio sample files.
(-J) -info-only give disc information only.
(-L) cddb=cddbmode do cddb title lookups. resolve multiple entries according to cddbmode: 0=interactive, 1=first entry
(-H) -no-infofile no info file generation.
(-g) -gui generate special

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output suitable for gui frontends.
(-Q) -silent-scsi do not print status of erroneous scsi-commands.
-scanbus scan the SCSI bus and exit
--devices scan for system devices and print with native names
(-M) md5=count calculate MD-5 checksum for blocks of 'count' bytes.
(-q) -quiet quiet operation, no screen output.
(-p) playback-realtime=perc play (echo) audio pitched at perc percent (50%-200%).
(-V) -verbose-scsi each option increases verbosity for SCSI commands.
(-h) -help show this help screen.
(-B) -alltracks, -bulk record each track into a separate file.
-paranoia use the lib paranoia for reading.
-paraopts=opts set options for lib paranoia (see -paraopts=help).
-cddb-server=servername set the cddb server to use for title lookups.
-cddb-port=portnumber set the cddb port to use for title lookups.
-version print version information.

Please note: some short options will be phased out soon (disappear)!

parameters: (optional) one or more file names or - for standard output.

Version 1.1.6

defaults stereo, 16 bit, 44100.00 Hz, track 1,

no offset, one track,

type wav 'audio', don't wait for signal, not

quiet,

use generic_scsi, device /dev/cdrom, aux

/dev/cdrom

[olivares@localhost ~]\$

If this does not work, please let me know. It has worked for me in the past. It lets you also rip the cd to wav files which can later be burned to make a non protected cd for your personal use.

Regards,

Antonio

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