

CD Copy

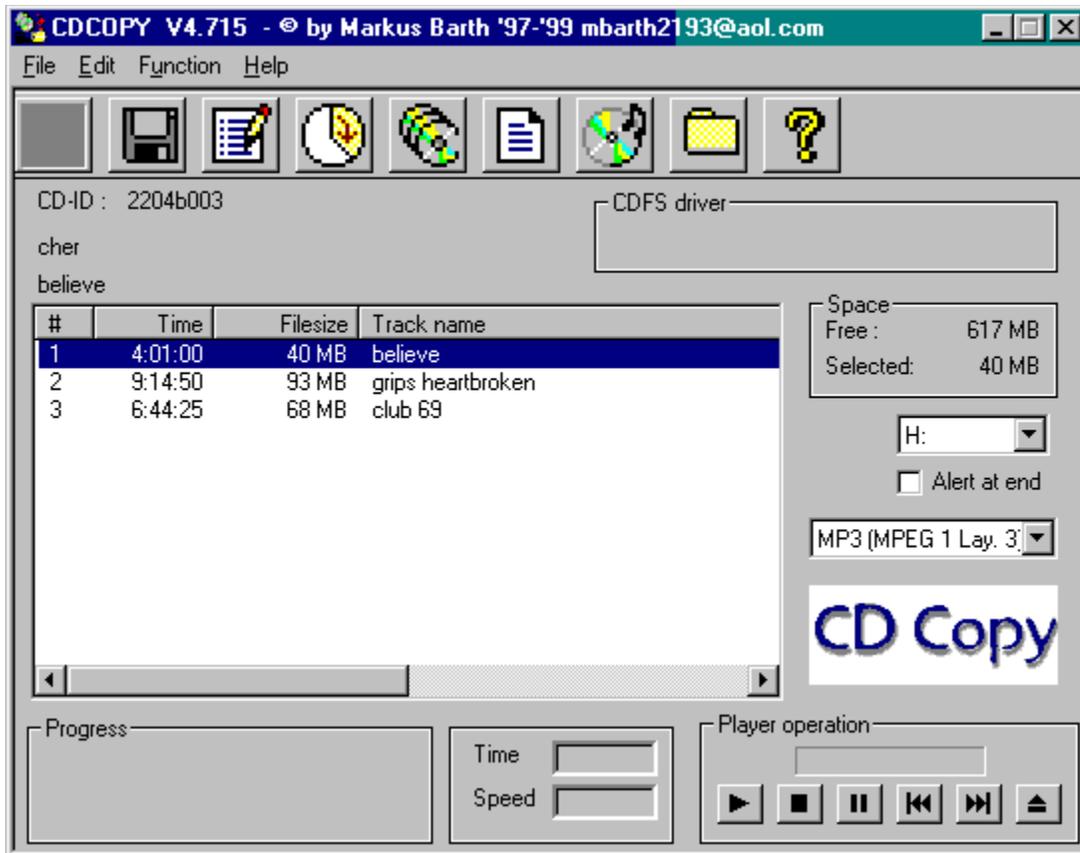
Introduction

CDCOPY is a tool to copy CDDA (audio-tracks) from CDROM/CDR to disk. It is not able to read data-tracks. It works with SCSI/ATAPI - CDROM/CDR under Windows-95 or SCSI or other drives under Windows-NT which support this mode of reading. Under Windows-95 the module uses the ASPI-interface (WNASPI32.DLL) or the CDFS driver to read the CDDA. Under Windows-NT the ASPI, generic WIN32 interface and the generic SCSI interface are supported. Registered users will be able to burn a CDR with the ripped audio-tracks. The module is not able to burn data or mixed mode CDRs. (Not all CD-Writers are supported at the moment!)

The module supports writing of many different file-formats - WAV, AU, RAW, VQF (Yamaha - <http://www.vqf.com>), Realaudio 5.x and G2 (incl. Surestream) (<http://www.real.com>), MS-Audio (WMA), MPG (MPEG 1 Layer 2), MPG-WAV, MP3 (MPEG 1 Layer 3), MP3-WAV, MPA (MPEG 2 Layer 3). The MP3 format is supported through various compressors like L3ENC, X3ENC, MP3ENC, BladeEnc, Plugger, Mp3Compressor, TOMPG (Xing), the L3CODEC (MP3-WAV) of the FHS and the XING MPEG/MP3 Encoder. These compressors are **not** included in this package, but e.g. the BladeEnc is Freeware - download it from <http://home8.swipnet.se/~w-82625>. Before writing compressed formats you can write first a WAV-file to disk to reach maximum reading speed with the CDROM and the possibility for normalization. Compressing the files to MP3 format is not very quick. A small MP3 player ([SMP3P](#)) is included in the package.

Full support of the CDPLAYER.INI and the CDDB - What the hell is CDDB? CDDB is a net of computers around the world ([CDDB server list](#)) which manage a database with information like artist, title and track title about all available CDs. (look at <http://www.cddb.com> to get further information) So you don't have to enter artist and tracks etc. before ripping. Just connect to internet insert a CD and press CDDB. (Look at [Generate batch entry](#) to automatically generate files for a batch query) After some seconds all information you need is on the screen. The lyrics server <http://www.lyrics.ch> is supported too. After retrieving the CD-information from CDDB or CDPLAYER.INI this server provides you with the lyrics of a certain song.

The module supports sampling of tracks from different CDs in a comfortable way.



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Special thanks to all the people who supported me through various nights while making

this module, especially to A. Katranis (A.Katranis@gmx.net), Michal Rybarik from SQRADIO and Ernst Elbe for excessive testing and permanent incentive, U2 for providing me with excellent music and all the others who reported errors and made useful suggestions.

Overread defect sectors

If you have damaged CDs this options allows you to copy those tracks. Defect sectors are overread. If there are not too many of them you will not hear that. There is **no** error correction done by the module!

Classic mode

Using the classic mode the selection of several tracks results in "one" physical file. If you burn that file there will be no gaps between the tracks. You are **not** able to select a specific track at your cdplayer. The CDRDAO port which is included in the CDCOPY package allows to set those gaps and write a CDR using DAO mode.

Buffered reading

This options allows the module to read more than one sector at a time. This speeds up reading. If you have problems concerning reading try to reduce the number of the ([Readbuffer](#)).

Jitter correction

Checking this option invokes an algorithm during reading the CD which eliminates clicks and pops. Older drives are not able to read the sectors in a subsequent way. You can hear this in the resulting file through clicks and pops. By default elimination is done with 4 buffers. If you hear further distortions increase the [Jitterbuffer](#).

Write MP3-ID Tag

Some MP3-Players support the MP3-ID tag. This tag includes information about artist, music-category, recording year, track-title and a comment. If this option is checked the module writes the tag information to the written MP3 or MP3-WAV file. The requested information which can not be filled automatic must be entered before writing. This can be done in the menu [MP3-Tag Info](#). The entered information can be saved to use as default values, you are not asked for information every time you insert a new CD. When using batchmode this information must be entered one time. It is used for all CDs!

Use L3enc

This option activates the L3enc module when selected and MP3 format should be written. The path to find the module can be entered under [Compressorpath](#) in the [Read options](#). By default the module uses a bitrate of 128kb. This can be changed through [MP3 parameter](#) dialog. If the option [Use quick compression](#) is checked the module works in this special mode (-hq is **not** used then). Look at [Use MP3ENC](#) to find information about the new version of L3enc.

Setting up compression with L3ENC.EXE:

Set the [Compressorpath](#) to the directory where L3ENC.EXE, GO32.EXE and your registration file are located.

Use the [Additional command line options](#) to add some options you like.

Use Xing Encoder

When saving files in MP3 (MPEG 1 Layer 3), MPA (MPEG 2 Layer 3) or MPG (MPEG 1 Layer 2) format the Xing MPEG Encoder can be used. To generate the MPA format it must be used. No other compressor is at the moment supported to generate this format. MPG can be written through built in routines or the Xing MPEG Encoder. The Xing MPEG Encoder is different to the Xing MP3 Encoder. These are two different products! No special setup operations are needed.

Suppress 0 samples

If the ripped file contains samples which consist only of binary 0s (total quietness) these samples are not written to disk. You can save some disk space. When using [Buffered reading](#) you can specify how much time of silence should be kept at the beginning and end of the file.

Use quick compression

Some MP3-Compressor modules support a slow and a quick mode to encode the files. If this option is checked the quick mode - if supported - is used. This can result in files with a lower quality. People with "good ears" can hear that! This parameter has influence on quality produced by the Yamaha VQF encoder too.

Powermode

The powermode is the fastest method to read the CDDA. During reading some samples the previous read samples are written. This mode of reading "can" result in files with bad quality. You should make an accustic control.

Use cddb files

Instead of retrieving CD-information from CDPLAYER.INI the module tries to open a cddb-file. The name of the file is a calculated disk-id. This number is different to the id which is used to access the CDPLAYER.INI file. The module tries to open the file in the path which can be entered under [cddbpath](#).

Save track number

Use the track number when building the filename for the track to write. Check this option if the token of the file template shall be active.

Save artist

Use the name of the artist when building the filename for the track to write. The name of the artist is taken from CDPLAYER.INI or a cddb-file. Check this option if the token of the file template shall be active.

Save album name

Use the album name when building the filename for the track to write. The name is taken from CDPLAYER.INI or a cddb-file. Check this option if the token of the file template shall be active.

Save CDPLAYER.INI cddb-title

Use the track name when building the filename. The track name is taken either from CDPLAYER.INI or a Cddb-file. Check this option if the token of the file template shall be active.

Save track time

Use the track time when building the filename for the track to write. Time is saved in format MM_SS_FF (minute, second, frame). Check this option if the token of the file template shall be active.

Use http-protocol

By default the module uses the CDDB-protocol to access the CDDB. If you check this option the module uses the http-protocol. If you do not have full access to the internet try it.

Look at the [CDDB server list](#) to find out which server support which protocol.

Server name

Here you can enter the name of the server where you want to make your cddb queries. A list of all available servers can be retrieved under www.cddb.com. Two of them are e.g. sunsite.unc.edu and cddb.moonsoft.com.

This information **must** be filled to make a query. Do not enter the `http://` prefix before using a proxy server. Using CDDBP or direct HTTP no prefix must be entered.

Look at the [CDDB server list](#) to find the server you want to use.

E-Mail address

The E-Mail address must be filled to make a cddb-query.

Mail server

If you want to submit new entries to the cd-database a mail server-name must be entered here. New entries are submitted via e-mail.

If you don't get an e-mail after submitting a new entry there was no error in the file. You can make a new entry in the [CDDB-file](#) menu.

Path

To access the cddb using the http-protocol a path must be entered here. Typically this is `/~cddb/cddb.cgi` but not for all servers. Look at the [CDDB server list](#) to find the appropriate path for the server you want to use.

Proxy server

If you have only access to the internet through a proxy server you must enter its name here. If you use this feature add the "http://" prefix for the server name. Look at [INI-File](#) section to find further information. If your proxy server needs authorization enter the [Proxyuser](#) information. A [Proxypassword](#) is required if the first access is made.

Readbuffer

The readbuffer option determines how many sectors are read at a time. By default the value is 25. Most drives support values up to 28. If you have problems during reading reduce the value.

Jitterbuffer

If you hear clicks and pops after ripping a track use the [Jitter correction](#) to eliminate them. By default the module uses 4 buffers for the algorithm. If this is not enough - you still here the clicks - set the value up by 1 and try again.

Reading speed

Some drives are able to modify the reading speed. By default a value of 0 is shown here. This means the drive should work with its default-speed. Sometimes you need to reduce the speed for some drives to gain files with a better quality. The higher the reading speed the lossier the quality. This is not true for all drives. So if you have file of bad quality try to reduce the reading speed here. You can enter values like 1, 2, 4, 8, 12, 16 ...

The speed calculation of the main dialogue is done with a rate of 150KB! So it is possible that you reach higher values than your CDROM/CDR is nominal able to because the reading of the CDDA is done with 176 KB.

If you own a 12X, 16X, 24X or 32X drives **doesn't** mean that you are able to read the audio tracks with such speed. The vendors name there models with reading speed of data.

It is quite normal that the reading speed of audio tracks is lower than reading data. That differs also from the inner to the outer tracks. Some vendors support only 1X or 3X when reading audio-tracks. So don't blame the module if you only reach lower rates.

Some drive-types **reduce** their error correction when reading with higher speed!

Compressor path

Here you can enter a path to your favorite compressor-module. If you don't make an entry the module tries to activate the compressor through the PATH-variable set in CONFIG.SYS or AUTOEXEC.BAT.

cddbpath

This variable contains a path to your cddb-files. It is used for reading (showing the information in the dialog) and saving (retrieving the cddb information). If you don't make an entry here the files are saved and read from the actual path where you have started CDCOPY.

Save path

This variable defines where the ripped tracks should be placed. Make sure that you have enough space on this drive because they need much of it. How much space you need for the tracks is shown in the right half of the main dialogue or the listbox where the tracks are listed.

Force use of generic interface

This option only makes sense for users of Windows-NT. If the ASPI-interface is available under Windows-NT too (the generic WIN32 interface is built in) you can force the use of the generic WIN32 interface by checking this option. By default the module tries to initialize the ASPI-interface. So if it is found it is used. Using the generic interface an additional feature is supported if you have more than one drive: you can dynamic change the drives through a combobox in the main dialogue. Using this interface is not so CPU-intensive as when reading using the ASPI-interface.

Rescan

Pressing this button scans the CDROM/CDR for a new CD and refreshes all information. If it doesn't work wait a few seconds and try again. Some drives need a time to recognize the new CD. Rescanning a disk can also be done through pressing ALT-R

Write

Pressing this button starts copying of the selected tracks. Files are written to the directory where you have started CDCOPY from or to the path you have entered under [Savepath](#). Pressing ALT-W starts writing too.

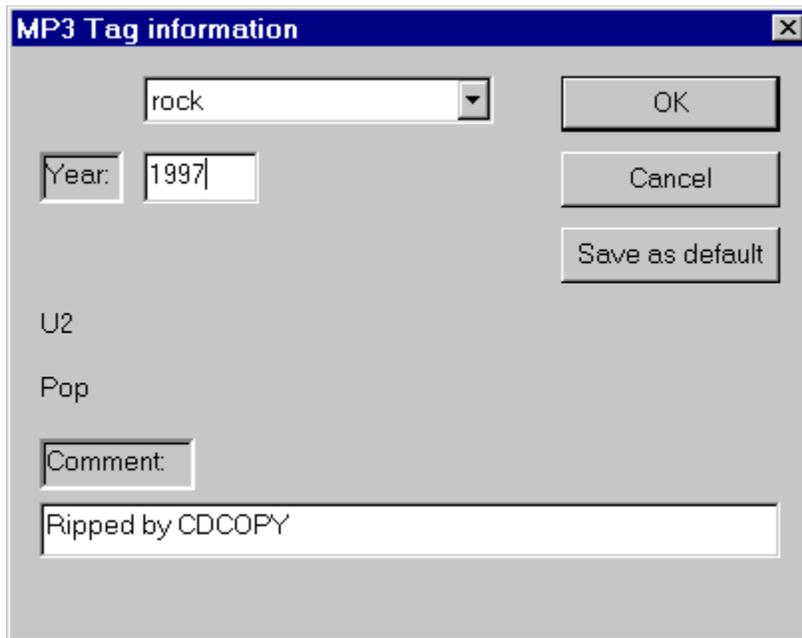
Sel./Deselect

Pressing this button selects/deselects all tracks in the listbox. Pressing ALT-S is a shortcut.

CDDB

Pressing this button starts the query for the CD-database according to the protocol-information you have entered. Before a query can be started enter the requested information. If the module is configured for using the local cddb the module starts searching the files. A successful query results in a small file which is located in the cddb-path and the main dialogue is refreshed with the retrieved information. Pressing ALT-D is a shortcut.

MP3-Tag Info

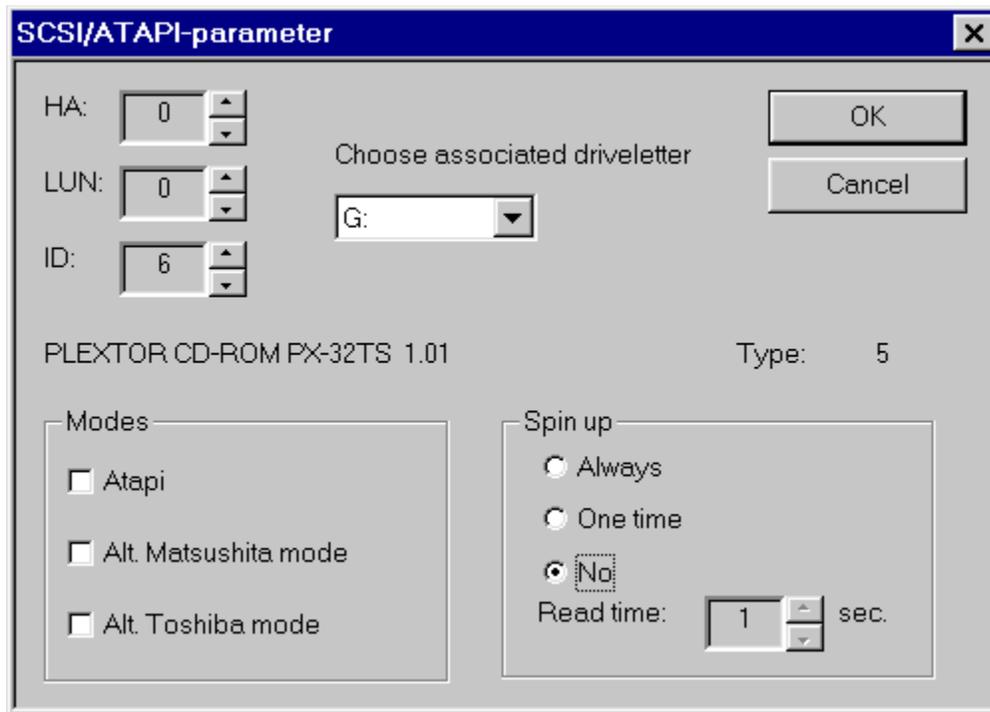


The image shows a dialog box titled "MP3 Tag information" with a close button (X) in the top right corner. The dialog box has a light gray background and contains the following elements:

- A dropdown menu at the top left showing the word "rock".
- A "Year:" label followed by a text input field containing "1997".
- Three buttons on the right side: "OK", "Cancel", and "Save as default".
- The text "U2" and "Pop" displayed below the year field.
- A "Comment:" label followed by a large text input field containing "Ripped by CDCOPY".

Here you enter the information which is needed to write a MP3 id tag. Track title is taken from the listbox of the main dialogue. These information is written to file after compressing it. The information is located at the end of the file. Most of the MP3-players are able to show this information. Writing this information is possible for MP3 and MP3-WAV format. If you **rename** a MP3-WAV file to MP3 most of the Mp3-players are able to play it! The "Save as default" button saves the year and the category as default values in CDCOPY.INI. If these information don't change you will not have to reenter them when using the "Write MP3 ID Tag" option. This allows "one click" generating of MP3 ID tags when compressing the WAV files.

SCSI-Info



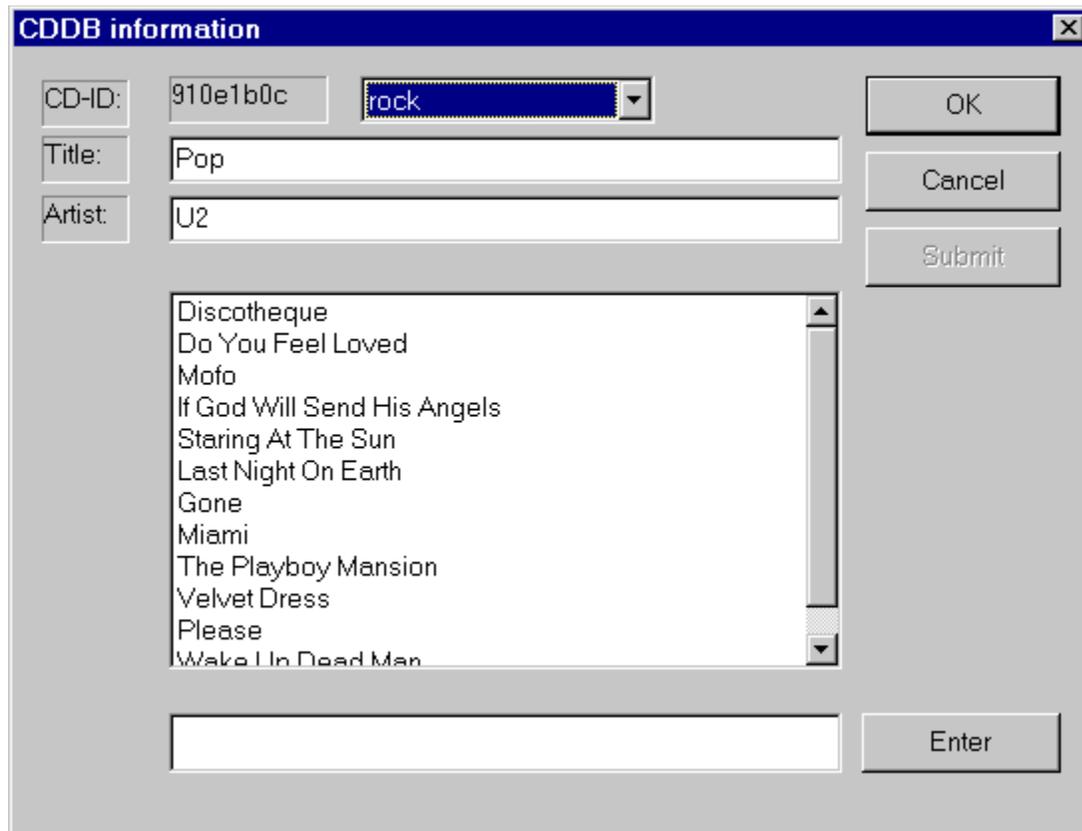
The SCSI-info dialogue shows all available SCSI/ATAPI devices. You can use it to find the configuration parameters (Hostadapter, Lun, ID and drive letter) for specific drives. Set the driveletter according to the SCSI/ATAPI information you have chosen. If you leave the dialogue by pressing the OK-Button, the module internally changes to this drive.

Write DAO-CUE-File

The popular CD-writing module DAO works with so called CUE-sheets. It is an description how the software should burn a CDR.

After ripping some tracks this option writes such a CUE-sheet for all selected tracks. It is a seq. file which can be edited with a normal text-editor.

CDDB-file



The image shows a dialog box titled "CDDB information" with a close button (X) in the top right corner. The dialog contains several input fields and buttons:

- CD-ID:** A text field containing "910e1b0c".
- Genre:** A dropdown menu currently showing "rock".
- Title:** A text field containing "Pop".
- Artist:** A text field containing "U2".
- Track List:** A list box containing the following tracks:
 - Discotheque
 - Do You Feel Loved
 - Mofo
 - If God Will Send His Angels
 - Staring At The Sun
 - Last Night On Earth
 - Gone
 - Miami
 - The Playboy Mansion
 - Velvet Dress
 - Please
 - Wake Up Dead Man
- Buttons:** "OK", "Cancel", "Submit", and "Enter" are located on the right side of the dialog.
- Empty Field:** A text field is located at the bottom left of the dialog.

This dialogue enables you to enter all information which is needed to submit a new entry for the CD-database. Pressing OK saves the entered information in a cddb-file which resides in the path where you started CDCOPY from or the [cddbpath](#).

Pressing OK generates an e-mail from entered information which will be send to the CD-database. Make sure that you have entered a valid mailservname and have an active internet-connection before submitting the information.

ATAPI-interface

This option enables a specific mode of reading. If you have problems reading your drive try this option. Some drive-types need it.

Save as

If you don't want to use the default savepath for the selected files, you can change it here. Select a drive, path and filename to specify where the file(s) should be located and how they are named. You don't need to specify an extension for the file(s). This is determined by the filetype you choose. If you have selected more than one file the tracknumber of the file(s) is automatic appended.

Use local cddb

A local version of cddb is also available. To retrieve more information about that look at www.cddb.com. If this option is checked the module tries to find the CD-information in the local CD-database which resides in the path which can be entered in [CDDB/Lyrics options](#) under [Use local cddb](#).

Local cddb path

This variable contains the path to the local CD-database. This database has a special structure which should not be modified. The module expects the music categories as subdirectories of this path. If an entry is found here it is saved in [cddbpath](#) in the normal cddb-format (calculated diskid).

Registration

At the moment there is **no** restriction on non registered versions. I need the registration fee to finance my internet activities (distributing the program, answering the e-mails etc.) because in Germany this is very expensive.

Registered users will receive a module which allows the writing of audio tracks to your CD-Writer, produce Realaudio files, convert MPx to Realaudio and VQF format and the possibility to rip tracks over several drives especially juke-boxes. Please send information which CD-Writer model you use. My module doesn't support all models.

Send personal money orders to:

Markus Barth
52511 Geilenkirchen
Holzmarkt 2
(Germany)

Online registration can be done at **www.shareit.com**. The program # is **100863**

English page: <http://www.shareit.com/programs/100863.htm>

German page: <http://www.shareit.com/deutsch/programs/100863.htm>

The registration fee is 20 US\$ or 30,-- DM

To retrieve my bank account please send an e-mail to:

mbarth2193@aol.com

or

mbarth@gmx.de

If you want to buy the source of the module send an e-mail to the above mentioned addresses.

Profit-making organizations may use this software only with explicit written permission with payment to the author.

Suggestions

If you have any suggestions or errors reports please feel free to send me an e-mail. The actual version of CDCOPY is always available at:

<http://members.aol.com/mbarth2193>

<http://www.cdcopy.sk>

<http://www.actadivina.com/~cdcopy>

Please send feedback about supported drives!

If you report any problems, please send the following information:

Version of CDCOPY you use

Vendor of your CDROM/CDR

Operating system

Which interface you use ASPI or generic WIN32 / generic SCSI for Windows-NT

Troubleshooting

Not all CDROM are able to read the CDDA. There are several methods how the different drives support the reading. It is not standardized. The module uses two different interfaces to access the drive - The MCI to get the CD-information like track-length etc. and the ASPI or WIN32 interface to read the CD. This is done so to be able to use the module with Alpha-machines.

Attention - Please copy your CDCOPY.INI file in the Windows or Winnt directory!

ASPI interface

The message "Reading error 4" means that with the used method of reading the drive is not able to do so. My module tries to use the right method of reading depending on the drive type it detects. Drives which can't be identified are first read with a method "most" (not all) drives support.

If you use an ATAPI drive try to use the check box in the [SCSI-Info](#) menu. Restart the module after setting this option.

Try to read again.

The message "No media present" appears if the drive chosen in the SCSI/ATAPI-Info menu contains no CD. If you have more than one drive and you switch the drives please set the drive letter to the drive you have configured through the SCSI-ID.

WIN32 interface

Not all drives which support reading using the ASPI-interface are able to use this interface. This depends on the CDROM driver implemented by MS. The reading of CDDA is not implemented for all drives which support this. So it can happen that reading over the ASPI interface is supported but not over the WIN32 interface.

The message "incorrect function" means that the driver is "not" able to read the drive. If you use an SCSI-drive you can install the appropriate ASPI drivers for your SCSI-Controller and try again.

Because I'm not able to buy all available CDROM/CDR it is useful if you tell me your problems by e-mail. It is possible to make a short diagnostic which method of reading is supported by your drive. This knowledge allows myself to extend the module to support more drives.

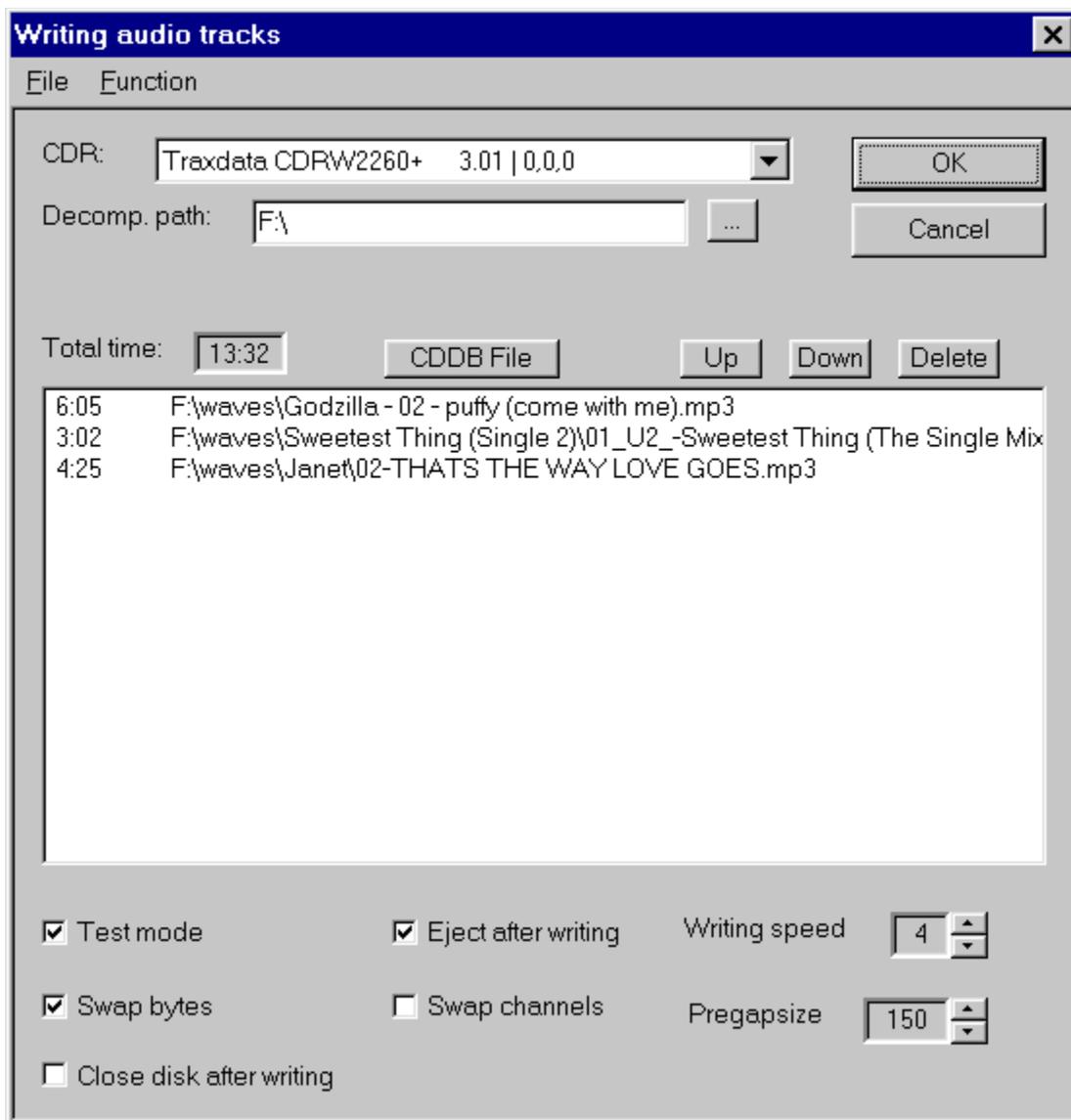
Alternate Toshiba mode

Another mode to read Toshiba drives. Use this after reading fails or to get higher speed rating for newer Toshiba drives.

CD Writing

This option is only available for registered users. It is possible to burn the ripped tracks using this module. It allows only to write audio tracks. Drag the WAVs, VQFs, WMAs, MP3s or MP3-WAVs to record from the Explorer over the listbox. Set the tracks in the order which you prefer on the CDR. Navigate with the "up" and "down" button.

The WAVs/MP3 will be recorded in the order which they have in the listbox. Selected MP3 files will be decompressed before writing, so you don't need 750 MB harddisk space to write a CDR. Three decompressors are supported: the integrated, L3DEC and the L3CODEC - which one will be chosen depends on the compression option. L3CODEC is used if the L3CODEC compressor is enabled, L3DEC is used when L3ENC is enabled - for all other compressors the integrated is chosen. The temporary decompression path determines where the WAVs are located which were produced during decompression. After writing a CD-R the button CDDB-file generates a CDDB file from the given informations which can be processed by CDCOPY. If you use files with names which include the artist etc. you will only have to remove the path information to get suitable CDDB files.



INI-File

The CDCOPY options are saved in CDCOPY.INI. This file **must** be located in the Windows or Winnt directory. Only files which are located there will be recognized. At the moment there is no registry support.

Some options are not configurable through mask input, because they are new or rarely used:

ForceSwap=1

This option forces a channel swap when using the generic WIN32 interface.

ChanSwap=1

This option forces a channel swap when using the ASPI interface

Writing speed

Speed which the CD-Writer should use.

Test mode

This mode doesn't perform physical writing. You should use it to simulate the writing process.

Swap bytes

Some drives need to write the tracks in wrong byteorder e.g. Yamaha, Philips, Mitsumi and Ricoh.

Close disk after writing

Using this option the CDR is fixed after writing. After that operation you are not able to add a track.

As long as the CDR is not fixed you are able to add tracks, but you can't hear the recorded tracks on a CDPLAYER.

After fixing a disk you are able to run the CDR on a normal CDPLAYER. You are not able to add a track!

Eject after writing

Eject the medium after writing. If recording doesn't start after a testmode writing please eject the medium. Some drivetypes needs it.

Write playlist

A playlist file for WINAMP is created from the selected files. WINAMP is a favorite MP3-Player. Look at <http://www.layer3.org> to find it.

Alternate Matsushita mode

Another mode to read Matsushita (Panasonic) drives. Use this after reading fails.

Filename template

Enter a filename template like - (%2) %1 - the tokens are replaced with the specified content. The "\" is allowed to build directory names from the token. The path should be relative to the [Savepath](#).

Pregapsize

Set the pregapsize for the tracks to record. Default is 150 sectors (2 sec.). The pregapsize is the pause between to tracks. Not all recorders support this option!

Configure batchmode

Batchmode configuration

HA: 1

LUN: 0

ID: 6

Choose associated drive

H:

OK

Cancel

PLEXTOR CD-ROM PX-32TS 1.01

SCSI-type: 5

Enable batchmode # drives to 1

Increase LUN Retrieve info from ext. file

Increase ID Cycle mode

Tracklist

The batchmode allows you to rip CDs over several drives especially juke-boxes. Enter the drive to start from and the associated drive-letter. Determine the mode of changing the drive - increasing the LUN or the SCSI-ID. Enter the number of drives you want to rip from. Enable the batchmode.

If you don't fill in the tracklist the CD is ripped. The other way is to enter a tracklist for each drive (e.g. 1,3,5,7,8) - The tracks must be comma separated

If you press the Save-Button the selected tracks will be read from the drives in subsequent order.

Another method to rip several (needed if more than 5) drives:

Make an ASCII file named "CDCOPY.DES" in the following format:

```
x:y:z;drive::m;a,b,c,d,e
```

x:y:z - The SCSI address of the drive to rip (Host adapter:LUN:TargetID)

drive: - The associated driveletter

m - extra mode to use when reading (0 = normal, 1 = atapi, 2 = Alt. Toshiba, 3 = Alt. Matsushita)

a,b,c, .. - The tracklist for this drive. If not tracklist is entered the whole CD is ripped

Check the switch "Retrieve info from ext. file"

Compress after writing

First copy all selected tracks to disk, then start compression.

Invert selection

The selection of tracks will be inverted.

Save CDDB info

The current CD-information is saved for a later CDDB query. So you can select some CDs before querying them from CDDB. The selected CDs can be retrieved by choosing [CDDB batch](#)

So insert a disk - select **Save CDDB info** insert next CD select **Save CDDB info** ..

Connect to the internet press [CDDB batch](#) to retrieve all prepared disks.

CDDB batch

The CDs prepared for querying are retrieved through this option. Look at [Save CDDB info](#) for further information concerning preparing some disks to retrieve them in a batch.

Shortcut list

ALT - B	Start CDDB query for saved entries
ALT - D	Start CDDB query for actual disk
ALT - I	Save CD-information for query
ALT - R	Rescan disk
ALT - S	Select / Deselect whole CD
ALT - T	Edit MP3 Tag ID
ALT - W	Start writing
F2	CDDB options
F3	Read options
F4	Write options
F5	MP3/WAV/RA/VQF options
F6	General options

Lyrics path

Path where the lyrics files should be placed.

Retrieve lyrics

The internet server www.lyrics.ch is able to provide you with the lyrics of a song. After retrieving the CD-information from CDDB or CDPLAYER.INI you can try to get the lyrics of the songs. If the query fails look with <http://www.lyrics.ch> how they have written the artist, album name and title. If your information is written in a different way use [CDDB-file](#) to correct it.

After that try again. The lyrics are queried for all selected tracks in the listbox. After retrieving the lyrics you can add them to the MP3, WAV-MP3 and MPA files by using the [Write lyrics tag](#) option.

In the Edit menu you will find the item [Edit lyrics file](#) to edit the retrieved file. The files are saved in plain ASCII format with some special ID tokens. They are not needed for my module. You can import the texts into plugins for WINAMP or write this lyrics tag which is supported by some plugins for WINAMP too.

Write lyrics Tag

Write the lyrics retrieved through the lyrics server [Retrieve lyrics](#) to the file. This is possible for MP3, MP3-WAV and MPA file formats.

Alert at end

Start playing the CD when job is done.

Use L3Codec

Due to problems with the MP3Compressor under Windows-NT I've implemented direct MP3 encoding through the L3Codec. This is the same as if you use the MP3-WAV format without the WAV file header.

Del. CDDB batch files

Delete existing batchfiles. Look at [Generate batch entry](#) to automatically generate those batch files.

Normalize

If you have ripped tracks from different CDs which were recorded on different levels of loudness you can use this function to set them to a general level. Using the "Batch" button you are able to normalize several files. It is possible to normalize a single channel.

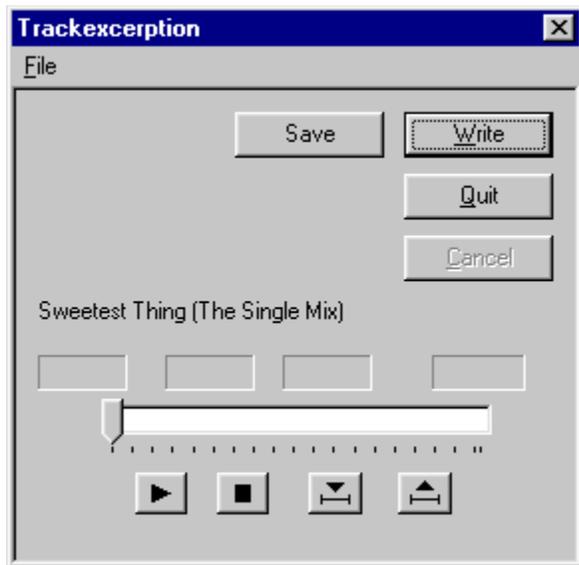
CDDB2CSV

Select some CDDB files from the directory and convert it to CSV format. The resulting file is named CDCOPY.CSV and resides in the same path where the CDDB file are located. The file is "not" deleted when new information is written. After generating this format you can import the information in other DBs.

The record is structured as follows:

diskid, category, total time in sec., artist, CD-title, track len 1, title of track 1, track len 2, title of track 2,

Track excerption



Pressing the right mouse button in the listbox of the main dialog activates a dialog which allows you to write a piece of a track. Just mark start and stop and press write. If several pieces are ripped they get a subsequent number in their filename - "Track_xx_yy" - where xx is the tracknumber and yy the subsequent number.

Press "Save" to save an excerption for batch ripping of excerptions. Only one selection is saved! You are able to rip e.g. the first 10 seconds of every track with one write process.

Setup CDDB access

To retrieve CD-information from CDDB fill in the requested information for

[Servername](#)

[E-Mail address](#)

Look at the [CDDB server list](#) to select a server. Enter your e-mail address in the [E-Mail address](#) field.

Set [Use cddb files](#) at [CDDB/Lyrics options](#)

Insert a CD, connect to the internet and press [CDDB](#)

To use the HTTP protocol for accessing CDDB add the additional information:

[Use http-protocol](#)

[Path](#)

Use TOMPG

TOMPG is another MPEG encoder of Xing technology. It is a command line utility. To use it set the [Compressorpath](#) to the appropriate directory. The Bitrate (default is 128 KB) and the JStereo parameter can be modified through the [MP3 parameter](#) dialog.

Setting up compression with TOMPG.EXE:

Set the [Compressorpath](#) to the directory where TOMPG.EXE is located.

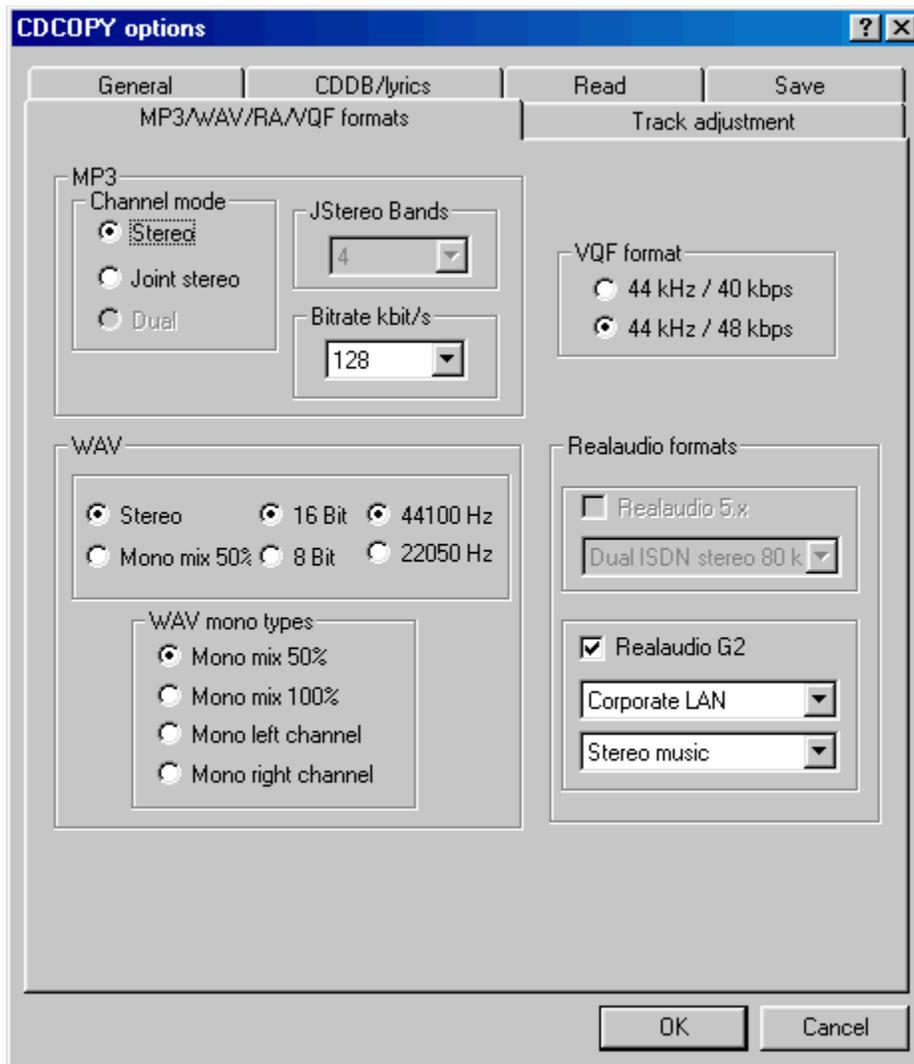
MP3 Bitrate

Choose the bitrate which should be used for MP3 encoding. (Default 128 kbit/s)

MP3 channel mode

MP3 encoding supports several modes. The stereo channels can be merged together to get a higher compression (Joint stereo). Using stereo the channels are encoded separate.

MP3/WAV/RA/VQF/AAC parameter



This dialogue allows you to manipulate several MP3/WAV/RA/AAC encoding parameters. Change them only if you know what you do.

[MP3 Bitrate](#)

[MP3 channel mode](#)

Write to CDPLAYER.INI

Write the CDDB info to CDPLAYER.INI.

Replace space(s) by underscore(s)

Replace the spaces in CD-title, artist and track name by underscores.

MP3 decompression

Decompress MP3/MP3-WAV-files back to normal WAV format. Three decompressors are supported - the integrated, L3CODEC and L3DEC. The decompressor to be used depends on the options for the compression. If the L3CODEC is used for compression - L3CODEC is used for decompression. When using L3ENC, L3DEC is used for decompression. For all other compressors the integrated decompressor is used. MP3-WAV can only be decompressed with the L3CODEC!

Autorip

After changing the CD the module starts automatically the following process:

Rescan the disk
Start a CDDB query if the disk information is not found
if the query was successful
 Select all tracks
 Start copying

For file formats which need encoding the compression process is started. Look at [Don't access CDDB in autorip mode](#) to stop the CDDB access in autorip mode.

Proxy user

If your proxy server needs authorization please enter here your user name. ([Proxy password](#))

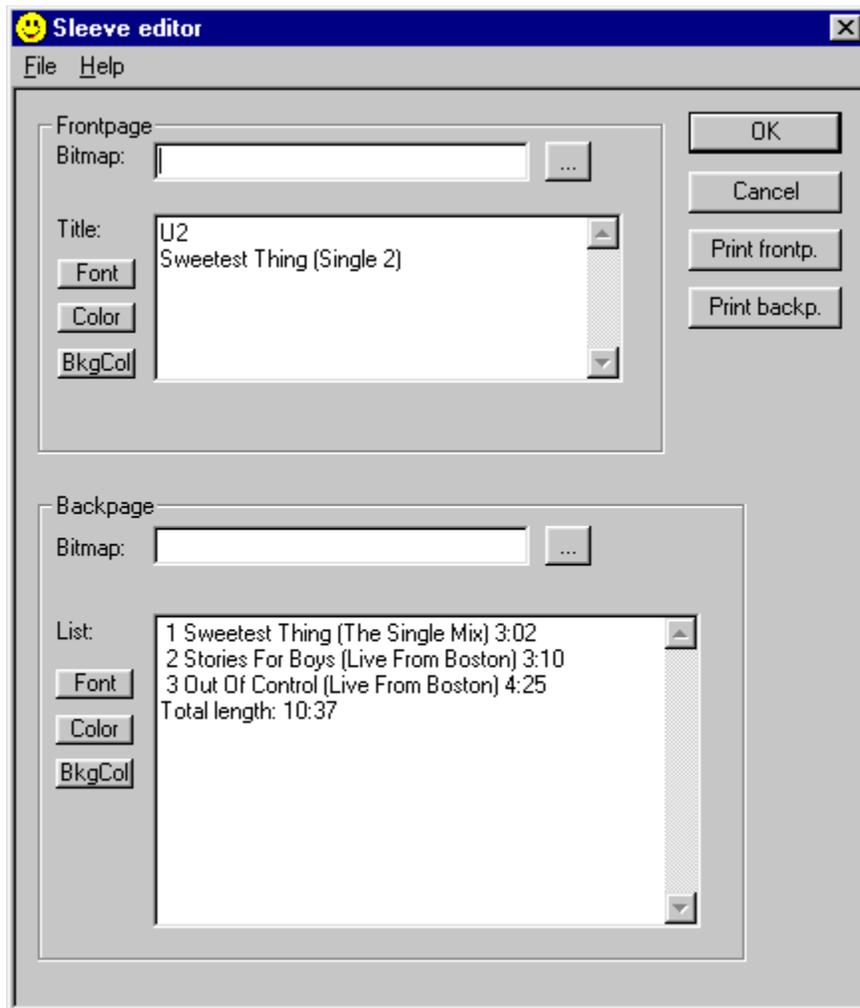
Proxy password

If your proxy server needs authorization please enter here your password. ([Proxyuser](#)) You must enter the password when the first request is made. It is not saved in any INI file or the registry. As long as the module is started it is memorized. You will have to enter it only one time.

Edit lyrics file

This option invokes the Windows-95/NT editor notepad with the selected lyrics. (Select a track in the listbox)

Sleeve editor



This is a small tool to make a CD-inlay based on the information you can get from CDDB. It supports the most common graphics formats like JPG, TIF, BMP, PNG, GIF, WPG, IFF, PPM, PGM, PCX, PIC and TGA. You can design your CD-sleeve with a bitmaps, change fonts and colors. There are two windows, one shows the front- and one the back page.

The text of the front- and back page can be modified. The options menu allows you to set a graphics path to retrieve the bitmaps from and to enter a template for the cd-titles. After invoking the editor the track titles are transformed to that template.

By default the bitmaps are placed in the upper left corner of the window. Each window gives the option to stretch them. The back page window has an additional option to stretch the bitmap to the edge. You can use this if you have scanned a CD-inlay. The title text from the front page can be disabled.

The module supports all scanners with a TWAIN interface to scan bitmaps right from the module. Scanned files can be saved in the bitmap format mentioned above.

Language

Using Windows-NT you are able to switch the language. This dialogue allows you to set the language which will be activated after a restart. If the special character-sets are installed the menu and the tooltips are shown in your selected language.

Using Windows-95 you can not switch the language. If you have a non english Windows-95 version and the translation is available you get the texts in your language. The module defaults to english if the special language is not available.

The dialogues and helpfile are not translated now because they change too often. If the extensions of the module reduce to a normal manner I will try to get these translations too.

At the moment the following languages are supported:

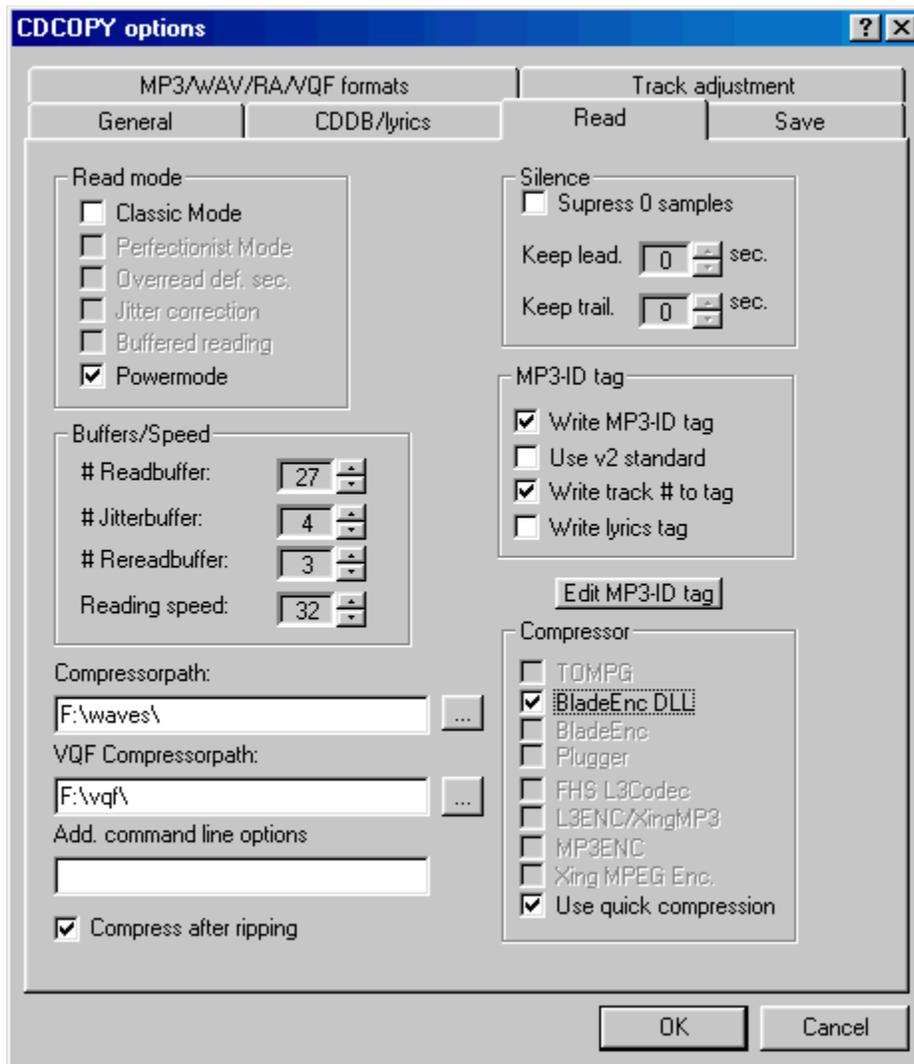
- english
- german
- dutch
- italian
- norwegian
- slowenian
- slovakian
- spanish
- swedish
- bulgarian
- portugese
- hungarian
- french

CDDB server list

CDDB Protocol Server Sites	IP-Port	Location
cddb.moonsoft.com	8880	Fremont, CA USA
cddb.sonic.net	888	Santa Rosa, CA USA
sunsite.unc.edu	8880	Chapel Hill, NC USA
www.cddb.com	8880	McAllen, TX USA
cddb.netads.com	8880	Austin, TX USA
cddb.kagomi.com	8880	Goshen, IN USA
cddb.celestial.com	888	Spokane, WA USA
cddb.dartmouth.edu	8880	Hanover, NH USA
cddb.ton.tut.fi	888	Tampere, Finland
cddb.shu.ac.uk	888	Sheffield, UK
cddb.westel.hu	888	Budapest, Hungary
cddb.sai.msu.su	888	Moscow, Russia
cddb.west.co.za	888	Pretoria, South Africa
cddb.manawatu.net.nz	8880	Palmerston North, New Zealand
cddb.uba.ar	888	Buenos Aires, Argentina (unofficial)
cddb1.crim.ca	888	Montreal, Canada (unofficial)
cddb.myplace.org	888	Scottsdale, AZ USA (unofficial)
hmljn.rzs-hm.si	888	Ljubljana, Slovenia (unofficial)
cddb.nucleus.com	888	Calgary, Canada (unofficial)
cddb.like.it	888	Milan, Italy (unofficial)
cddb.energy.it	888	Milan, Italy (unofficial)
cddb.penguin.net	888	Bethesda, MD USA (unofficial)
cddb.norman.ok.us	888	Norman, OK USA (unofficial)
cddb.tau.ac.il	888	Tel Aviv, Israel (unofficial)
cddb.paradigm-sa.com	888	Pretoria, South Africa (unofficial)
peroxide.caps.maine.edu	888	Orono, ME USA (unofficial)
barfridge.tsrc.uow.edu.au	888	Wollongong, Australia (unofficial)
cddb.netwalk.com	888	Columbus, OH USA (unofficial)
cddb.ans.net	888	Ann Arbor, MI USA (unofficial)
www.sad.it	888	Bozen, Italy (unofficial)

HTTP Protocol Server Sites	Site CGI Path	Location
cddb.moonsoft.com	/~cddb/cddb.cgi	Fremont, CA
sunsite.unc.edu	/~cddb/cddb.cgi	Chapel Hill, NC USA
www.cddb.com	/cgi-bin/cddb.cgi	McAllen, TX USA
cddb.sonic.net	/~cddb/cddb.cgi	Santa Rosa, CA USA
cddb.netads.com	/~cddb/cddb.cgi	Austin, TX USA
cddb.mattdm.org	/~cddb/cddb.cgi	Goshen, IN USA
cddb.dartmouth.edu	/~cddb/cddb.cgi	Hanover, NH USA
cddb.ton.tut.fi	/~cddb/cddb.cgi	Tampere, Finland
cddb.westel.hu	/~cddb/cddb.cgi	Budapest, Hungary
cddb.west.co.za	/~cddb/cddb.cgi	Pretoria, South Africa
cddb.manawatu.net.nz	/~cddb/cddb.cgi	Palmerston North, New Zealand
cddb.like.it	/~cddb/cddb.cgi	Milan, Italy (unofficial)
cddb.energy.it	/cgi-bin/cddb.cgi	Milan, Italy (unofficial)
cddb.penguin.net	/cgi-bin/cddb.cgi	Bethesda, MD USA (unofficial)

Read options



[Overread def. sectors](#)

[Classic mode](#)

[Buffered reading](#)

[Jitter correction](#)

[Powermode](#)

[Write MP3-ID Tag](#)

[Write tracknumber to tag](#)

[Use V2 standard](#)

Write lyrics Tag

Use L3ENC

Use L3Codec

Use MP3ENC

Use BladeEnc

Use Xing Encoder

Use TOMPG

Use quick compression

Compressorpath

Compress after writing

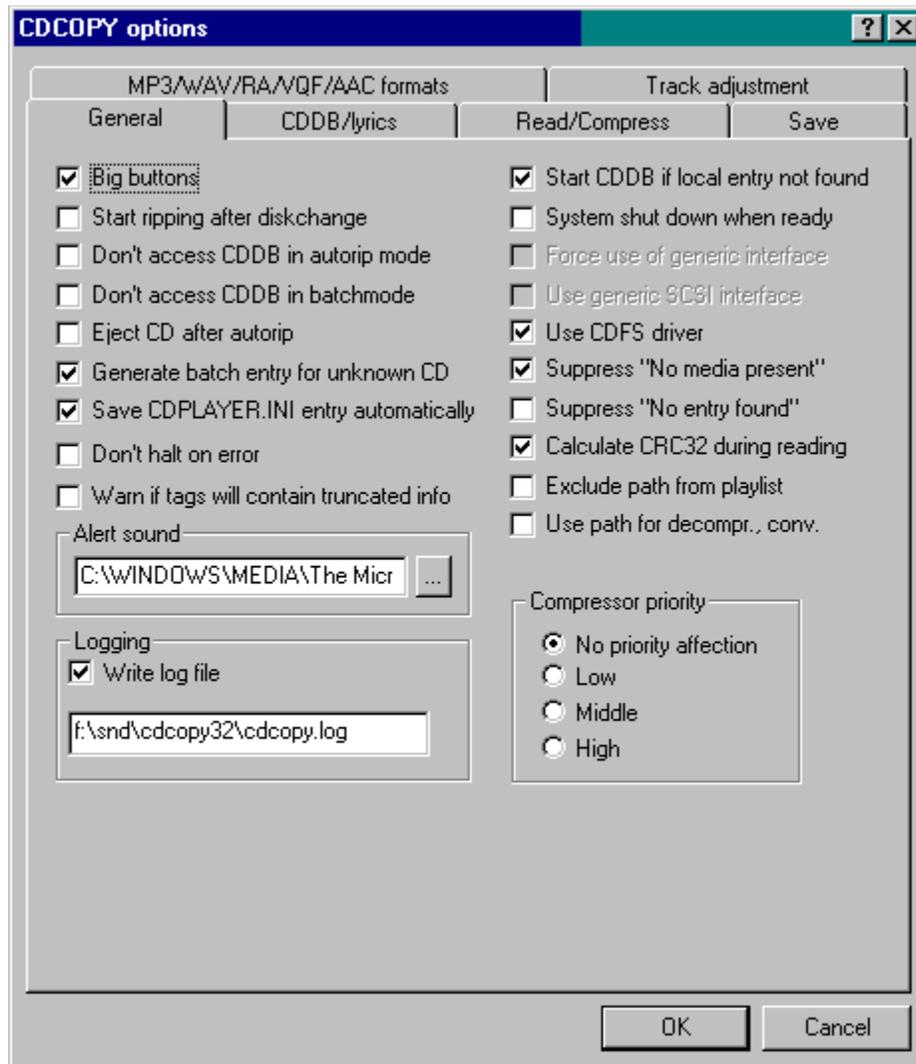
Supress 0 samples

Readbuffer

Jitterbuffer

Reading speed

General options



[Autorip](#)

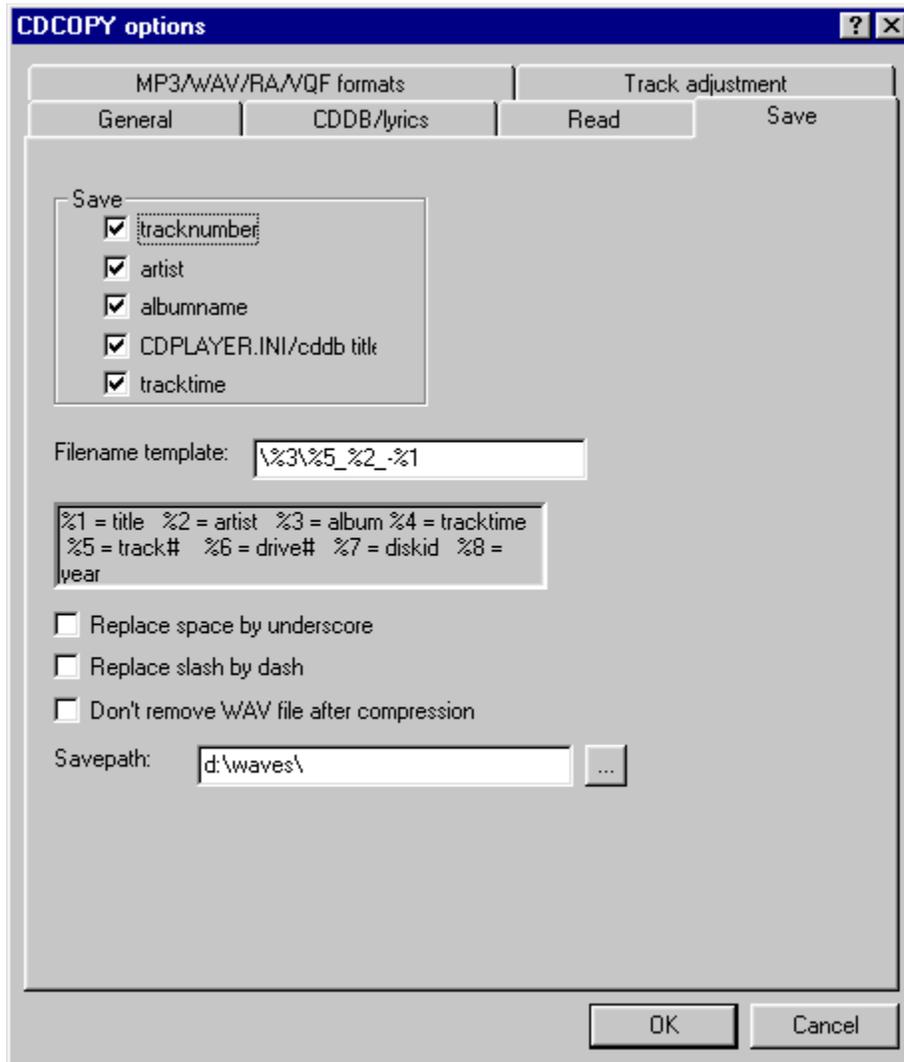
[Don't access CDDDB in autorip mode](#)

[Force use of generic interface](#)

[Generate batch entry](#)

[File formats](#)

Save options



[Save tracknumber](#)

[Save artist](#)

[Save albumname](#)

[Save CDPLAYER.INI cddb-title](#)

[Save tracktime](#)

[Filename template](#)

[Replace space by underscore](#)

[Savepath](#)

CDDB/Lyrics options

The screenshot shows the 'CDCOPY options' dialog box with the 'CDDB/lyrics' tab selected. The dialog is divided into several sections:

- MP3/WAV/RA/VQF formats** and **Track adjustment** (top tabs)
- General**, **CDDB/lyrics**, **Read**, and **Save** (sub-tabs)
- Options:**
 - Use local cddb
 - Use http protocol (cddb)
 - Use cddb files
 - Write additional LRC file
- CDDB Information:**
 - Servername:
 - CGI-Path:
 - E-Mail address:
 - Proxyserver:
 - Mailserver (SMTP):
 - Proxyuser:
 - CDDBP-Port:
 - HTTP-Port:
 - Proxy-Port:
- Paths:**
 - cddb path: ...
 - Local cddb path: ...
 - lyrics path: ...
- Buttons:** OK, Cancel

[Use cddb files](#)

[Use http-protocol](#)

[Use local cddb](#)

[CDDB server list](#)

[Servername](#)

[E-Mail address](#)

[Mailserver](#)

[Path](#)

Proxyserver

Proxyuser

Proxypassword

Local cddb_path

cddbpath

Lyrics path

Options

[General options](#)

[CDDB/Lyrics options](#)

[Read options](#)

[Save options](#)

[MP3/WAV/RA/VQF parameter](#)

File formats

The program supports several file formats:

WAV
AU (16 Bit linear)
RAW

MP3-WAV - compression through L3CODEC or MP3ENC

MPG (MPEG 1 Layer 2) - compression through built in routine, Xing MPEG Encoder and QDesign codec

MPG-WAV - compression through QDesign codec

MP3 (MPEG 1 Layer 3) - compression through several MP3 encoders like Xing MPEG encoder, l3codec from the FHS, L3ENC, X3ENC (Xing MP3 encoder), L3CODEC, BladeEnc, TOMPG (Xing Technologies) or MP3ENC

MPA (MPEG 2 Layer 3) - compression through Xing MPEG Encoder

AAC (MPEG 1 LAYER 4) Quartex Encoder

WMA (MS-Audio) - MS-Audio codec

Yamaha VQF - Look at <http://www.vqf.com> to get further information and software (Encoder and Player)

Realaudio - Look at <http://www.real.com> to get further information and software (Encoder and Player).
Producing Realaudio files is only available for registered users!

MPG-WAV - Look at <http://www.qdesign.com> to get further information and software.

Automatically generate batch entry for unknown CDs

This option generates an entry for a CDDB batch query when an unknown CD is inserted. When the next batch query is started the information for all your unknown CDs is queried.

Write tracknumber to tag

An extension to the ID3 V1 standard is a possibility to save the track number in the MP3 file. Using this option 2 Bytes from the comment are reserved for the track number!

Use V2 standard

The MP3 ID Tag standard was totally redefined to Version 2. Using this option V2 tags are written. Attention! - I don't know exactly which players support it. So if you have problems playing such tagged files, use the old standard.

A general difference between those standards is, that the old version writes information at the end of a file and the new at the beginning. The V2 tags are at the moment not written to MP3-WAV - Format!

Don't access CDDB in autorip mode

Use this option if you don't want to access the CDDB when using [Autorip](#) mode.

Correct start sector

Some drives calculate the starting position of a track wrong. This option allows you to correct it. Most time you will have to subtract about 20 sectors.

Cut last track

Older drives of a special vendor calculate the length of the last track wrong. This option corrects it.

Use MP3ENC

MP3ENC is the new "L3ENC". It supports generating of MP3 and MP3-WAV. Now you can choose between the L3CODEC and MP3ENC to generate MP3-WAV format.

Setting up compression with MP3ENC.EXE:

Set the [Compressorpath](#) to the directory where MP3ENC.EXE is located.

Eject CD after autorip

Eject the CD after a ripping process when in autorip mode. Especially when ripping up to 100 CDs your arm will love this option.

Generate MP3-Producer batch file

The MP3-Producer is able to compress several WAV files to MP3 or MP3-WAV Format. This option generates a batchfile in the format the Producer expects. Select the files you want to compress and choose the option. Attention - when loading the script the Producer tries to find the file. If they are not found they are not listed although they are listed in the batch file.

No drive spinning

Do not spin up the drive before reading.

Spin drive up once

Spin the drive once before a reading session.

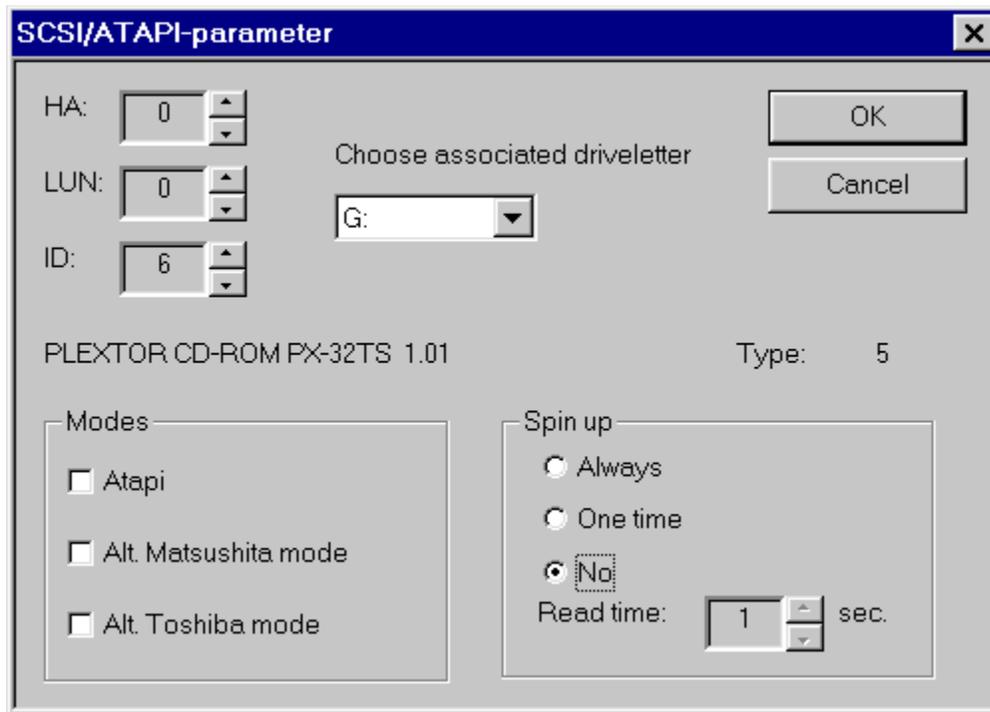
Spin drive up always

Spin drive up before every track to read.

Spinning time

Seconds to read before "hot" reading starts. Start with a lower value and increase it if the beginning of the track includes distortions.

Drive spinning



The image shows a dialog box titled "SCSI/ATAPI-parameter" with a close button (X) in the top right corner. The dialog is used for configuring drive parameters. It features three spinners for "HA:" (0), "LUN:" (0), and "ID:" (6). To the right of these is a section labeled "Choose associated driveletter" with a dropdown menu currently showing "G:". Below these are two buttons: "OK" and "Cancel".

Below the drive letter selection, the drive model "PLEXTOR CD-ROM PX-32TS 1.01" and "Type: 5" are displayed. The dialog is divided into two main sections:

- Modes:** Contains three checkboxes:
 - Atapi
 - Alt. Matsushita mode
 - Alt. Toshiba mode
- Spin up:** Contains three radio buttons and a spinner:
 - Always
 - One time
 - NoBelow the radio buttons is a "Read time:" label followed by a spinner set to "1" and the text "sec.".

Some drives need a spin up to read without distortions in the beginning of the track. These options (no spin up, spin up always, spin up once and the spinning time) allows you to configure a time to be read before actual reading should start to get the velocity the drive needs to read without errors.

Save CDPLAYER entry automatically

Save the result of a CDDB request automatically to CDPLAYER.INI. This option is not active in batch query mode!

Mono modes

there several possibilities to save Mono files. Using mono mix 50% the channels are "added" and divided by 2. Mono mix 100% is build by a simple addition of the channels.

Start CDDB query if entry not found

If the CD-entry is not found in the local CDDB an CDDB query is automatically started.

System shutdown when ready

Shut down the machine when work is done.

Additional command line options

Here you can enter additional command line options for your favourite compressor.

Correct end sector

Adjust the end sector calculation with this value. When getting read errors at the end of every track use this option. Start with a value of -150. Most time this will work.

Compressor priority

Set the priority the compression process should use. The higher the priority the faster compression is done.

Use BladeEnc
Use BladeEnc DLL

BladeEnc is a freeware MP3 encoder which you can download from <http://home8.swipnet.se/~w-82625>. It supports compression rates up to 320 KB.

Setting up compression with BladeEnc:

Set the [Compressorpath](#) to the directory where BladeEnc.exe is located. Use "-quit" as [Additional command line options](#) to suppress the stop message of BladeEnc after each track.

The BladeEnc DLL is provided with the package - So you don't need the external program.

Suppress No media message

Suppress the "No media inserted" message.

Use generic SCSI interface

This is an additional interface to access CDROMs under Windows-NT. You **can't** use this interface under Windows-95. No additional ASPI interface is needed. You get low CPU usage when using this interface. Check "Force use of generic interface" and this option. Restart the program.

Neumann factor

The Neumann factor is shown in the ratio fields of the compression dialog. It shows the ratio between the estimated compression time and the play length of the source audio file.

x3enc

Use the Xing MP3 encoder by making a copy of the exe-file with the name l3enc.exe. After that choose "Use l3enc" in the reading options to. x3enc.exe and l3enc are using compatible command line options.

Setting up compression with the Xing MP3 Encoder:

Set the [Compressorpath](#) to the directory where x3enc.exe is located. Copy x3enc.exe to l3enc.exe!

MP3 compression

If you want to compress a separate file after ripping, choose this function. The compressor is chosen corresponding to the options set in the read options.

Suppress "No entry found" message

Suppress the "No entry found" message, when the CDDB file is not there.

Activate logging

Activate the writing of a log file - as default name CDCOPY.LOG is used. The file is created where CDCOPY.EXE is located. You can enter a different path.

Calculate CRC32 during reading

A checksum is build during reading. If this checksum doesn't change if you read the track two times your drive is able to read track correctly - this means that you got an exact copy of the track on the CD. If the second try results in another checksum - it is marked with a "!" - This means that your drive is either not able to read the track as it is on the CD or the CD is damaged so that the drive has made an error correction. The different checksums don't mean that the track has bad quality - Most of the time you will not hear this.

Don't access CDDB in batch mode

This option prevents the program from making a CDDB query when working in batchmode.

Track adjustment

Some drives calculate the start-, endsector or tracklength in a wrong way. These options allow you to correct this. If your drive reads over the end of the track every time correct this by subtracting a value of the endsector.

[Correct endsector](#)

[Correct last track](#)

[Correct startsector](#)

cycle mode

Using the batch mode this options eject a CD after it is processed. Insert a new one and this CD will be processed after all drives are ready. Ripping many CDs from several drives speeds up the process.

Communication port

Enter the communication ports for the HTTP, CDDBP protocol and the proxy server access.

Use Plugger

Plugger is another freeware encoder based on the ISO code.

Setting up compression with plugger+:

Set the [Compressorpath](#) to the directory wher plugger.exe is located.

Command line mode

If you want to execute CDCOPY from another application use the following command line syntax:

```
CDCOPY -tx,y,z
```

The tracks must be comma separated!

Replace slash(es) by dash(es)

Replace the slash(es) in CD-title, artist and track name by dash(es).

Don't delete WAV file after compression

The WAV file is not deleted after compression. So you can use for further encodings.

Warn if tags will contain truncated info

The tag information in MP3-ID tag standard V1 can only contain up to 30 characters. This option shows a warning message if information will be truncated.

Warn if tags will contain truncated info

The tag information in MP3-ID tag standard V1 can only contain up to 30 characters. This option shows a warning message if information will be truncated.

Write additional LRC-File

In addition to the CDCOPY-TXT file a LRC file is written which can be processed by most of the lyrics editors.

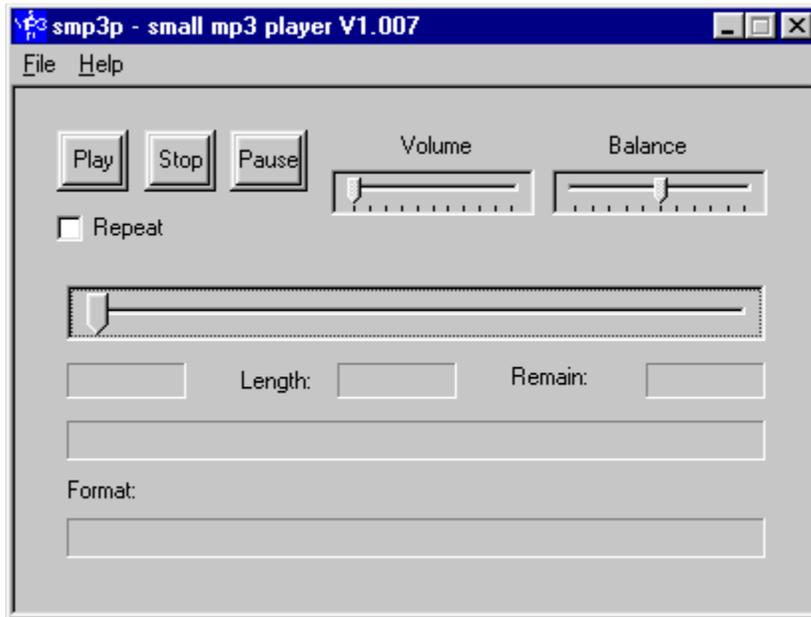
MPx -> Realaudio

Conversion from MPx (MPEG 1/2 Layer 1-3) to Realaudio format. Existing MP3 ID Tags V1 will be converted too. Look at <http://www.real.com> to get further information concerning the Realaudio format. Using the [Conversion path](#) the converted files will be saved in this location.

MPx -> Yamaha VQF

Conversion from MPx (MPEG 1/2 Layer 1-3) to Yamaha VQF format. Existing MP3 ID Tags V1 will be converted too. Set the [Compressorpath](#) to the directory where the SQVBATCH.EXE is located. You need the external Yamaha VQF compressor to produce the VQF format. Look at <http://www.vqf.com> to download it. Using the [Conversion path](#) the converted files will be located there.

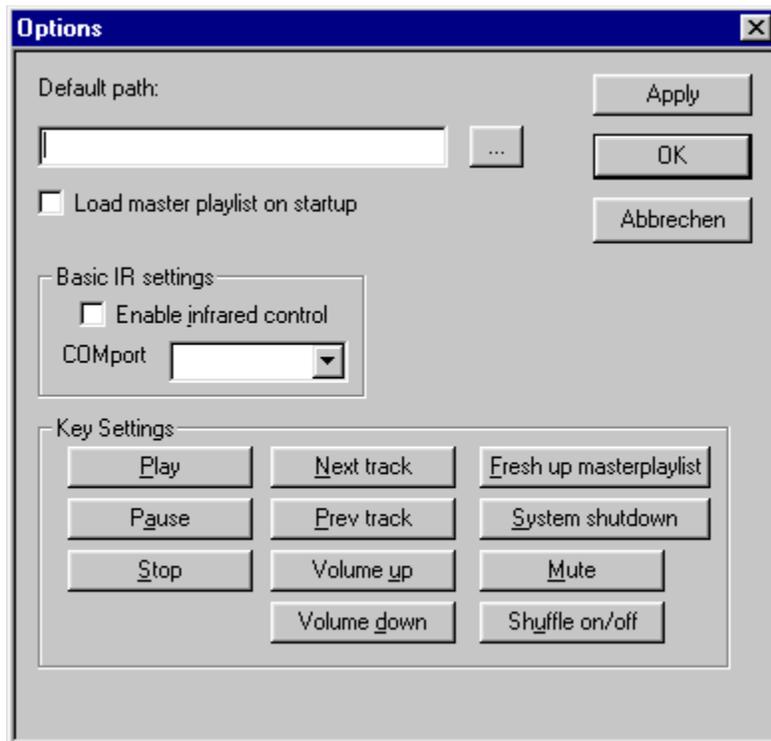
SMP3P



This player supports the main functions most players have including the support of remote control through your normal infrared remote control which you use for your TV. Buy your infrared receiver at <http://come.to/irman> for a few bucks and have much of fun using it with your remote control. Collect the music for a whole party evening, put it on your computer, connect the computer to your HiFi rack, take your remote control and start.

Using the right mouse button you can quickly access the last ten played tracks.

SMP3P options



Default path:

The filedialog is set to this path when you want to open a file for playing.

Load master playlist on startup:

The player uses a special playlist (master playlist named smp3p.m3u) which can be loaded on startup. So you can configure a PC which loads the player and through this options a playlist and starts playing with one button press on your infrared remote control.

You can use this feature for a PC in a Cafe or on a party which should be controlled by people who don't like computer or keyboards. Just show them which button on the remote controll to force specific functions like play, pause, stop, ...

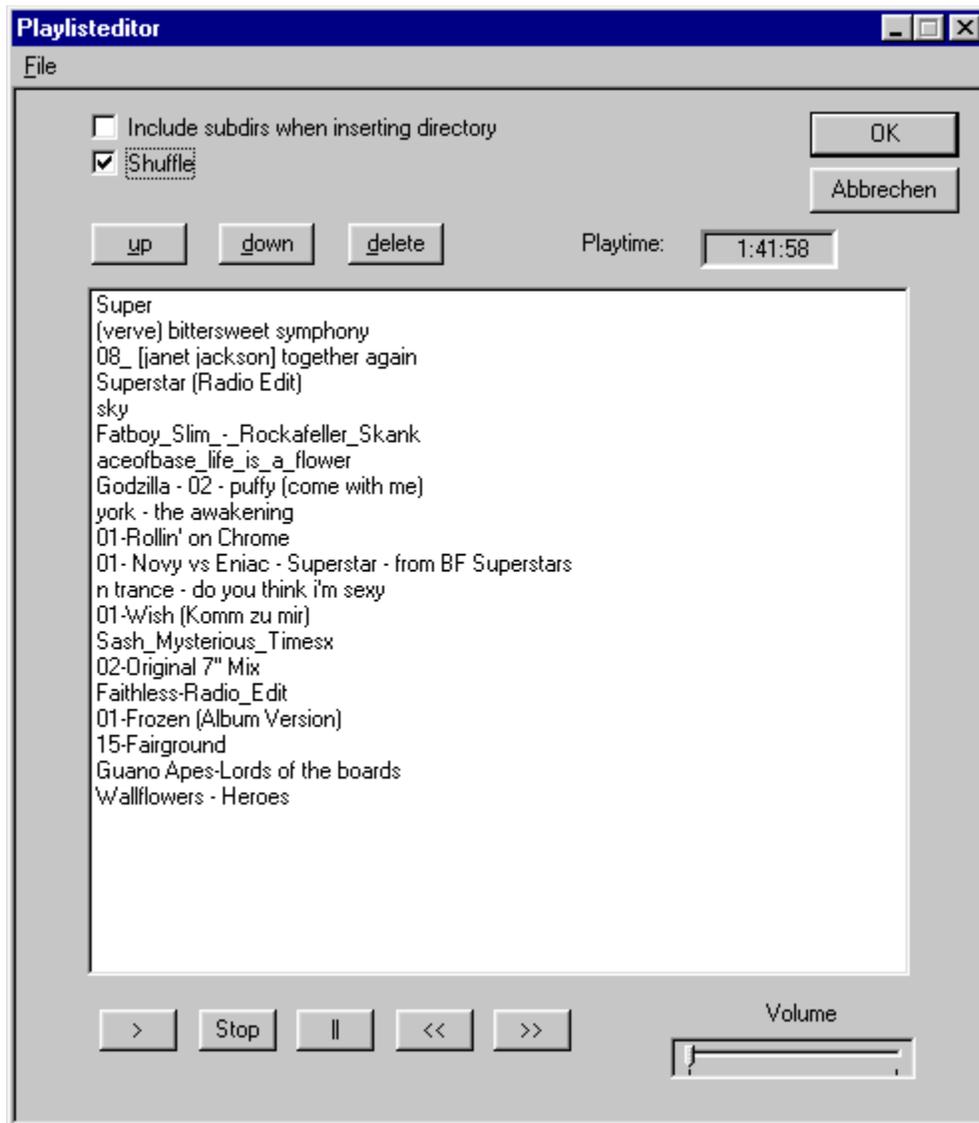
Infrared control parameter

Enable the infrared control

The COM port to which the infrared receiver is conncted (Look at <http://come.to/irman> to buy your own cheap infrared receiver)

Most of the remote control functions don't need an explanation. System shutdown is for the people mentioned above - they can shut down the system with a button on the remote control. Shuffle on/off switches between the modes of sequential playing and a random playing of the files in the playlist. Fresh up master playlist automatially scans all directories and subdirectories starting from the default path and builds a new master playlist. So you just copy the all files you want to add to your playlist to a specific directory and press this button.

SMP3P playlist editor



Use the drag and drop feature of the explorer to fill your playlist. Another possibility is to check the "Include subdirs when inserting directories" option. Set the open file dialog to a directory where all your MPx files are located and the program scans all dirs and subdirs and collects all playable files from them.

The shuffle option switches between sequential and random playing mode.

Copyrights and trademarks

Music CD-related data is provided through the internet from the Escient® CDDB™ Music CD Database. Copyright© 1998 Escient LLC. All rights reserved.

Escient is a registered trademark of Escient LLC. CDDB™, the Escient CDDB Logo, and the CDDB Server Access Sound are trademarks of Escient LLC.



<http://www.cddb.com>

The decompression engine is provided by:



<http://www.xaudio.com>

Windows-95/98/NT are trademarks of the Microsoft Corporation

Realaudio from <http://www.real.com>

VQF from Yamaha corporation



Realaudio™ is a registered trademark of RealNetworks Inc. <http://www.real.com>



The QDesign MPEG Audio Codec is made bei QDesign <http://www.qdesign.com>

Many thanks to Victor Ishikeev who provided me with an excellent portdriver for Windows-NT (really plug and play)

<http://www.entechtaiwan.com/tools.htm>

TVicHW32/TVicPort - access to the PC hardware

Hope everyone is satisfied now!!

VQF Compressorpath

Path where your VQF compressor is located e.g. svqbatch.exe. Download svqbatch.exe from <http://www.vqf.com>

Perfectionist Mode

Every sector which should be written is read up to "Reread buffer" times. The program searches the sectors which were delivered more than one time with the same result to save the "correct" read sectors. This mode reduces reading speed and should only be used by people who have drives which always deliver different results when reading - so - not interesting for Plextor users.

Attention! - Drives with cache can deliver the wrong results several times.

Swap channel

Swap the stereo channels before writing.

MPx bitrate conversion

Use this function to convert the bitrate (manipulate the size and quality) of your MPx files. Decrease the bitrate to pack more files into your Diamond RIO player. Attention! Set the file format (main dialog) to the format you want to use as destination format - If you select e.g. M3 files and set the dest. format to MP2 an implicit conversion is made.

Build generic name for later binding

This option allows you to bind the CDDDB information to an already ripped track. If you choose this option the filename template is ignored. A generic name of the form CDC#xxxxxxx-tt.aaa is build.

Process the following steps to perform a later name binding:

- Check the a. m. option
- Press the "Save CD information for later CDDDB query" button (folder)
- Ripp the tracks you like
- Use the CDDDB batch query later to retrieve the CD information when the CD is not inserted
- Choose the Edit - Associate file name with CDDDB info function
- Select the files you want to rename

The following steps are performed then:

- rename the file to its name - template is used now
- copy the file to the destination directory (build name with directories)
- if the option "write ID3 tag" is checked - a tag is added to the file

Transferpath

After compression the files can be copied to another location if you enter a path here.
The path will be combined with the filename template. Savepath and transferpath can not be equal.

Lyricserver

Enter the name of the lyrics server. At the moment they use search.lyrics.ch. Some times ago they used www.lyrics.ch.

If the new name doesn't work - try to old name. (Sorry - but I get no information when it is changing)

Retrieve lyrics of file

Based on available MP3-ID tag information the program tries to retrieve the matching lyrics from www.lyrics.ch.

Use a MP3-ID tag editor to correct different writing of cd-title, artist or track title.

VQF decompression

VQF format is converted to WAV format. Get a real good VQF, MP3 player from <http://www.x-filez.com>

Conversion path

The conversion path is used for batch decompression (MP3, VQF, ...) and bitrate conversion. This allows you to convert direct from e.g. cdrom.

Use path for decompression and conversion

All files in the chosen path and subdirectories are compressed/decompressed or converted.
Compress/Decompress or convert a whole cdrom with one click.

How to use CDRDAO with CDCOPY

Use the [Classic mode](#) feature of cdcopy to produce a WAV file from a whole CD. After that enter on the commandline:

CDRDAO read-toc --device x:y:z --fname name.wav name.toc

This command produces a toc file which includes all information to write in DAO mode.
To write the WAV file to CDR enter

CDRDAO write --device x:y:z name.toc
or **CDRDAO simulate --device x:y:z name.toc**

to simulate the write process. Substitute x:y:z with your SCSI address of the writer you want to write to.

Another possibility is to produce one WAV file per track and create a TOC file using the cdcopy "Write CDRDAO toc file" function. This function produces a toc file which match to the files you ripped before.

The command to write these files is similr to the one mentioned above:

CDRDAO write --device x:y:z name.toc
or **CDRDAO simulate --device x:y:z name.toc**

where name.toc is the file which was produced by cdcopy.

For further possibilities this program offers look at the attached man and readme file which includes a complete description of the program.

MP3 frequency

The I3codec allows you to choose several frequencies for MP3 encoding.

Use QDesign Codec

Use this codec to produce HQ MPEG 1 Layer 2 compression. Adjust the bitrate etc. in the [MP3/WAV/RA/VQF parameter](#) dialog. The HQ mode is en-/disabled through the [Use quick compression](#) switch.

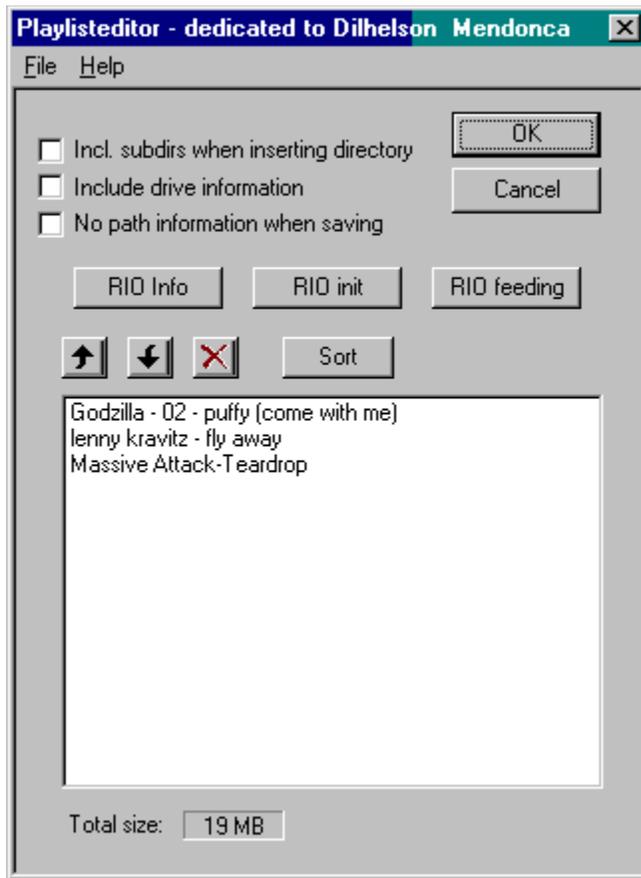
QDesign compression modes

Choose the compression mode for the QDesign Codec (MPEG 1 Layer 2). The [Use quick compression](#) switch influences the quality of the output - if this option is set HQ output is produced - Compression time is longer as if this option is not set.

Use CDFS driver

This driver shows the track of a music CD as WAV files to the operating system. You can copy them with drag and drop like normal files to your harddisk. (Works not for every drive!). CDCOPY is able to use this driver - you don't need to install any ASPI drivers or something like this (At the moment this driver is only available for Windows-9x). Just choose this option and restart the program after it. - The drive can be changed on the main dialog through changing to the appropriate drive letter.

Playlist generator/RIO



The playlist generator was build because there is no tool I know which is able to generate Realaudio playlists.It has basic features like sorting etc. and some additional like building a playlist from a directory and all it's subdirs. You can choose how the playlists are saved - using the whole path, using path without drive or simply save the filenames.

The playlist generator includes a simple interface to the Diamond RIO player:

- Show the contents of the player
- Delete the contents
- Upload a playlist to it
- Delete files from the player
- Download files

Alert sound

Enter a path to a WAV file you like which is played after operation is done - If you enter a filename here - the program doesn't start playing the inserted CD when "Alert at end" is switched on.

VQF formats

Choose here between the different available VQF formats - The HQ option of the compressor is realized through the option

[Use quick compression](#) - if you check this option HQ output is produced.

Write CDRDAO toc file

This option writes a toc file from the information which is available on the inserted CD. CDRDAO is a ported Linux tool which is able to write CDR in DAO mode. The tool is included in the cdcopy package.

Generate CDDB file from CD-Text info

Using this option the program tries to detect CD-Text information on the CD. If it exists a CDDB file is generated from this information - You don't need to contact the internet database.

Compress on the fly

Using the L3CODEC or BladeEnc.DLL for generating MP3-format this option allows you to make the compression during reading the CD - No extra WAV file is written before the compression. No normalisation can be done!

Generate playlist for selection

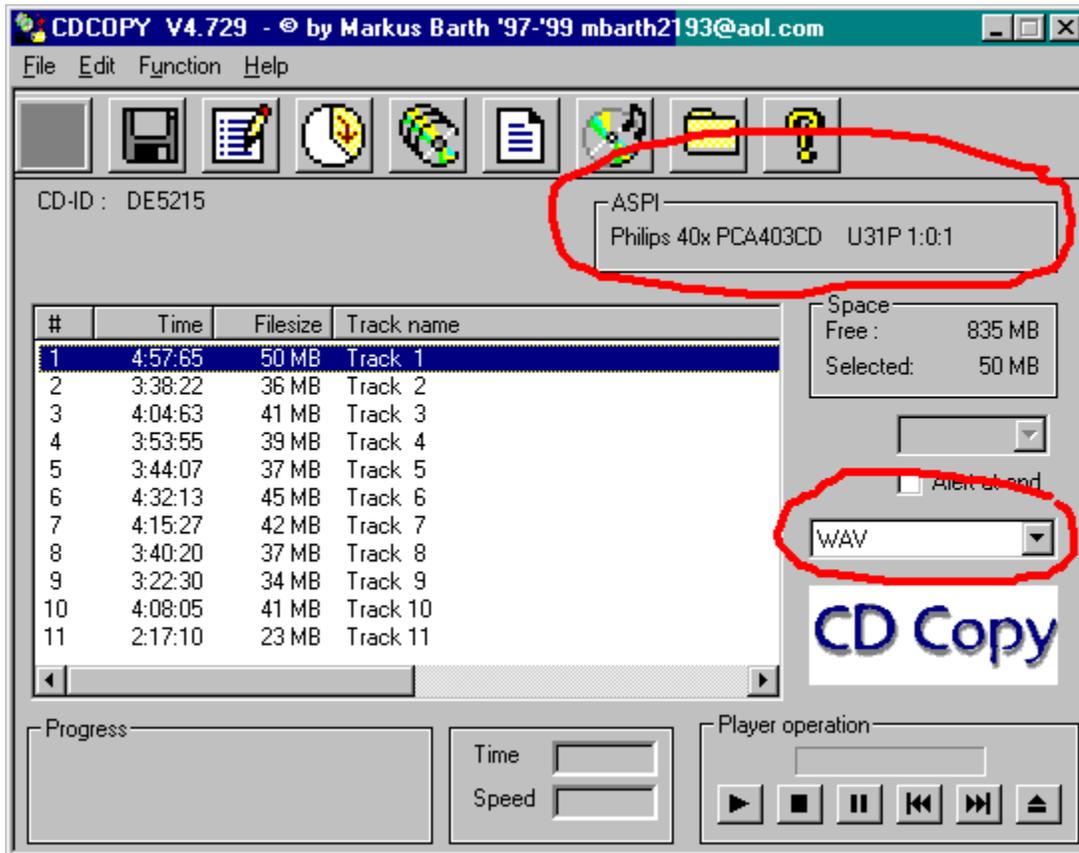
A playlist entry for all read/compressed tracks is generated. The name of the playlist is determined by the playlist name template. Use the [Exclude path from playlist generation](#) to remove the drive information. Several tokens can be used to build a customized playlist name:

%2 - artist
%3 - album
%7 - diskid

If you don't enter a template a default name is built from diskid, artist and album name. You can use the "\" inside the template to automatically generate directories!

CDCOPY step by step (Windows-9x)

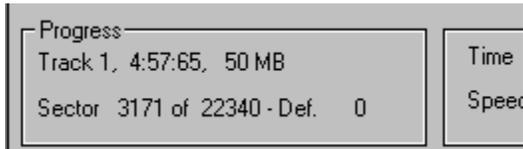
After starting the setup program of cdcopy you see a folder named CDCopy on your desktop. Before starting the program insert a music CD in your CDROM/CDR. If you have more than one CDROM/CDR please insert a music CD in every CDROM/CDR you have connected to the computer. After starting the program it searches the "first" CDROM which it can find and tries to use it. By inserting a music CD in every CDROM/CDR which is connected you don't have to know which the "first" CDROM/CDR is. Double click the smiley icon. In the best case you see a screen like this:



The red marked area shows the drive which the program will use. Below the marked area you see a second marked area which shows the file format combo box. By default it is set to WAV-format. The left half of the main dialog shows the tracklist where the first track is marked for reading.

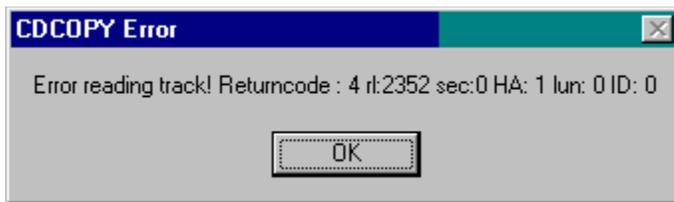


Press the above marked button to start the copy process.

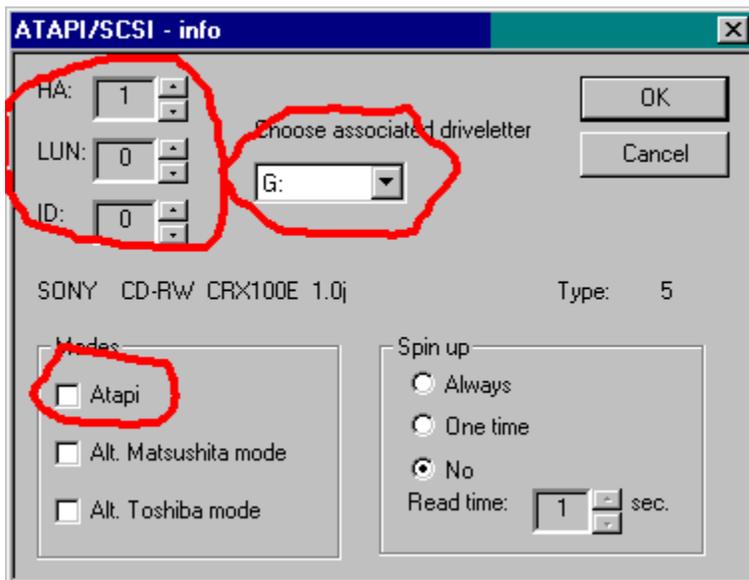


In the lower left half of the dialog you can see the read sectors. When the program has finished reading you find a WAV-file named TRACK01.WAV in the directory where CDCopy was installed. Use the right mouse button on the file in the explorer and choose properties. A dialog appears - choose preview and press the start button. Hear the whole track and listen for clicks and pops which are sometimes produced of older CDROM drives. If the track is OK go to step 2 to set up the CDDDB access.

When pressing the "Write" (diskette button) and you see a messagebox like this:



we have to check some parameters. This error occurs when the read command of the program fails. Press OK to close the box. Open the File menu and choose ATAPI/SCSI info. You see a dialog like this:



you can see the address of a CDROM/CDR and its associated drive letter. Sometimes the detection of an ATAPI drive fails. If the "Atapi" checkbox is not checked - Check it. Close the dialog with the OK button. Shutdown the program and restart it. Press the "Write" (diskette button) again and see what happens. If

the above error occurs again there are two possibilities why the program not works:

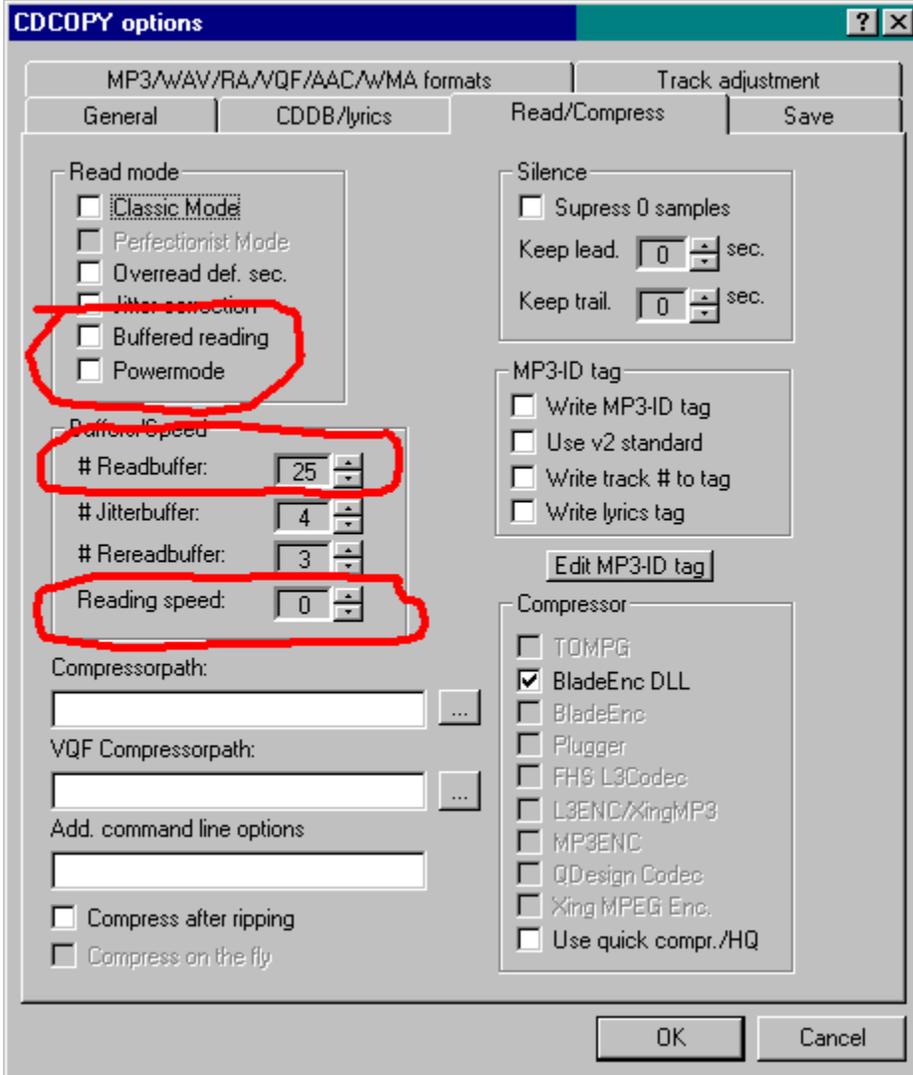
- your CDROM is not capable of reading the audio tracks
- you have a problem with drivers which are used to read the audio tracks

The first problem is not solveable. The second problem can often be solved by a program called "ASPI_ME.EXE" which can be found in the internet. This program installs some ASPI drivers which allow the reading of the audio tracks. Because it uses modified drivers from Adaptec you can't get it officially. If you can't find this program try to install the latest ASPI drivers for Windows-9x downloadable from Adaptec's site.

Speed up reading

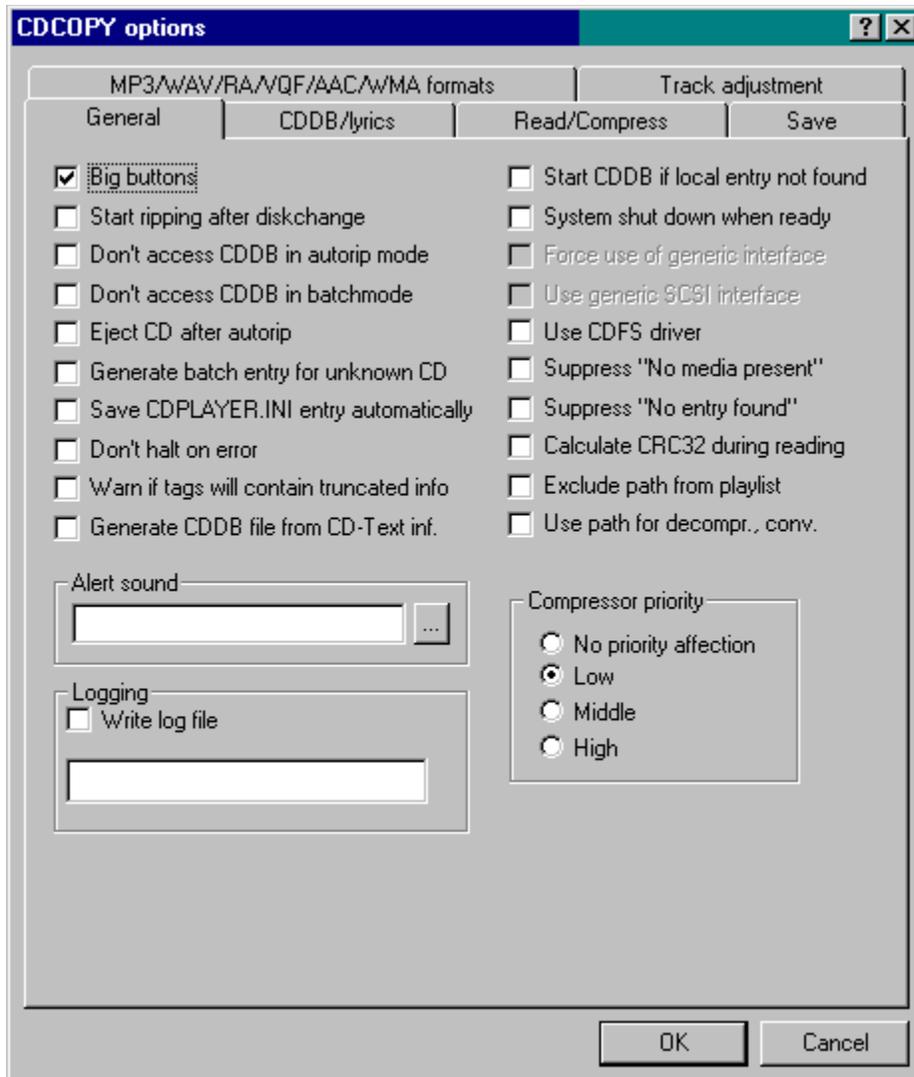
Using the default mode reading the audio tracks is not very fast. You can speed it up by choosing another reading mode.

First try the "buffered reading" - Using this mode not only one sector is read at one time but 25 (max. is 27). The highest reading rates can be reached through the powermode - Using this mode x reading buffers are read at the same time and during saving this sectors the next portion is read. If you change the reading mode please first write normal WAV file and check it with your ears - Not all drives like this reading modes!!! You find these parameters when opening the options dialog (right mouse button on the main dialog - not in the area of the listbox!) and changing to the read/compress parameter section. You can reduce/increase reading speed by setting concrete values at the speed parameter. 0 means default speed - No speed modification by the program is done. Start with values like 2, 4, 8, 16, ...

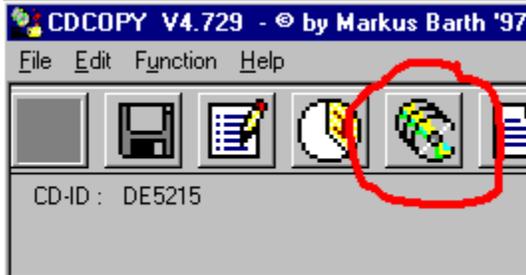


CDCopy CDDB setup

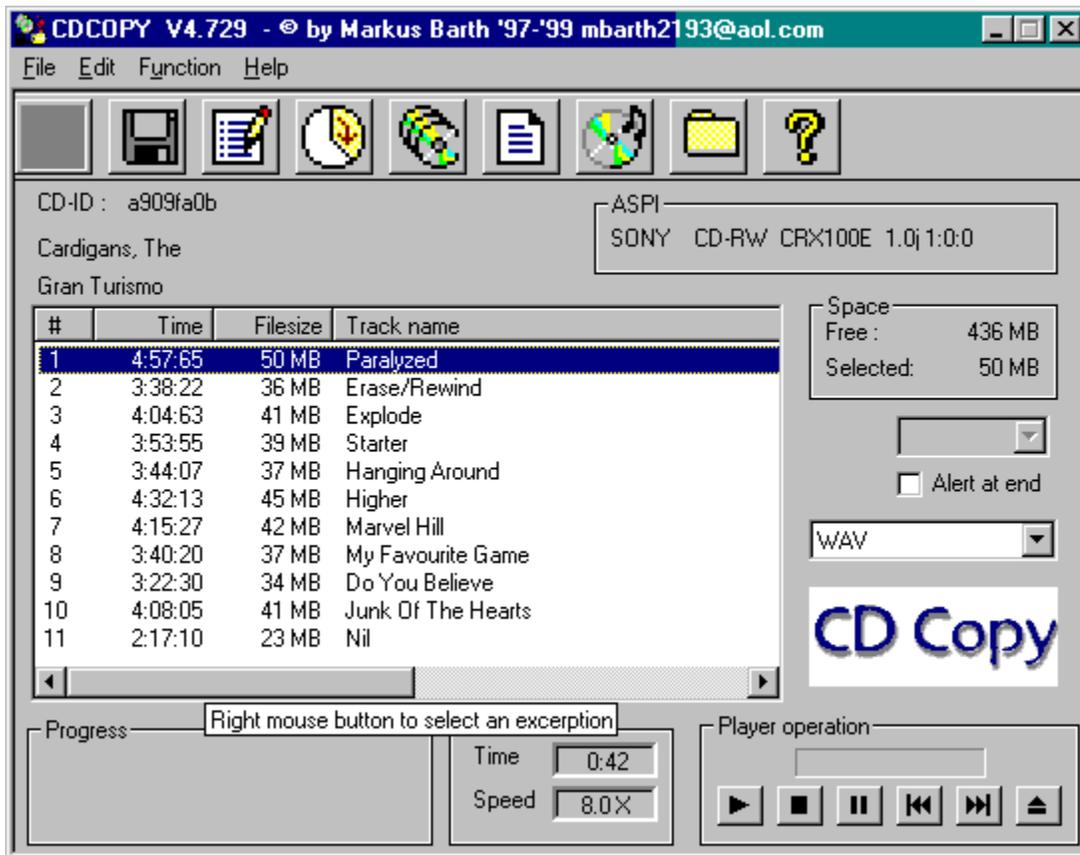
Start the program and use the right mouse button (not in the listbox area) to open the options dialog. You see a dialog like this:



Choose the CDDB/lyrics section. Check the "use CDDB files" option and enter your e-mail address in the field named "E-mail address". Close the dialog. If you don't have a connection to the internet connect to it. Press the CDDB button:



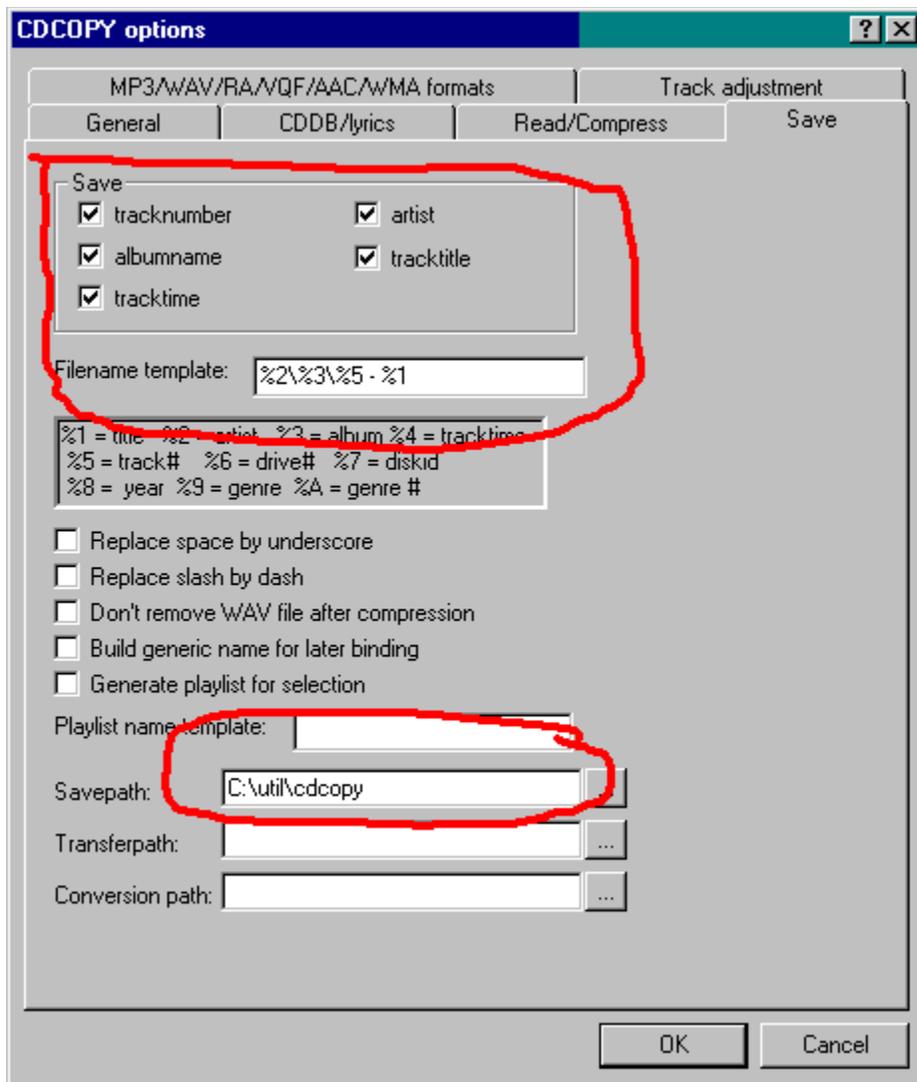
After some seconds you see a screen like this:



Before saving the files with a more useful name like TRACK01.WAV open the options dialog with the right mouse button.

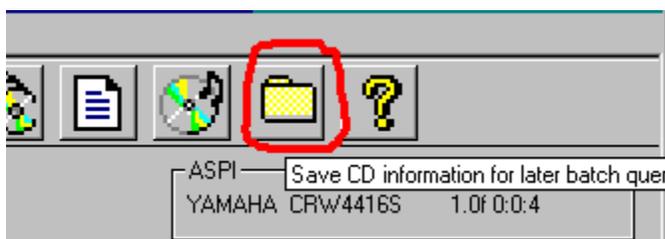
Choose the Save parameter section. Check all the parameters in the Save box and choose an appropriate savepath where the read tracks should be located. Enter a filename template like the one shown in the example below - This template creates a directory for every artist and album - under these directories the tracks are saved with a name like:

01 - track title



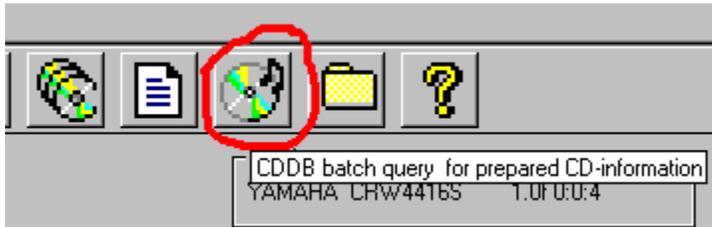
Close the dialog and select a track you want to save to disk. Press the "Write" button. After the drive has finished reading look at the path which you entered as Savepath.

If you want to retrieve CDDB information for several CDs and don't want to be online the whole time you can save the necessary information for the database query using the marked button



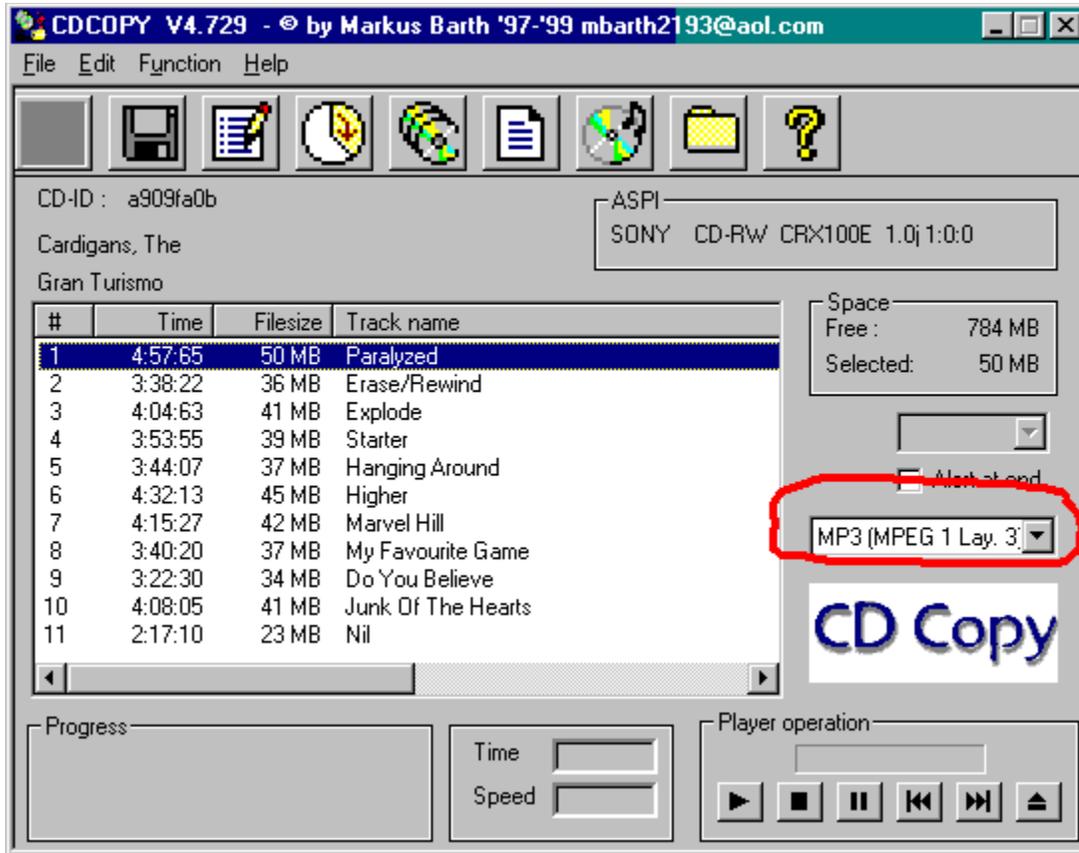
Repeat this step for every CD you want to get the information for.

After saving the information for all the CD the information shall be queried press the marked button to perform this batch query

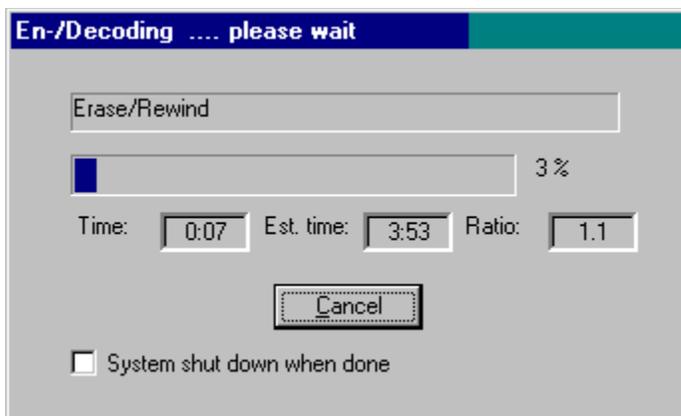


CDCopy MP3 setup

Saving files from a music CD in MP3 (MPEG 1 Layer 3) format is very easy. Just choose MP3 (MPEG 1 Layer 3) on the main dialog as shown below:

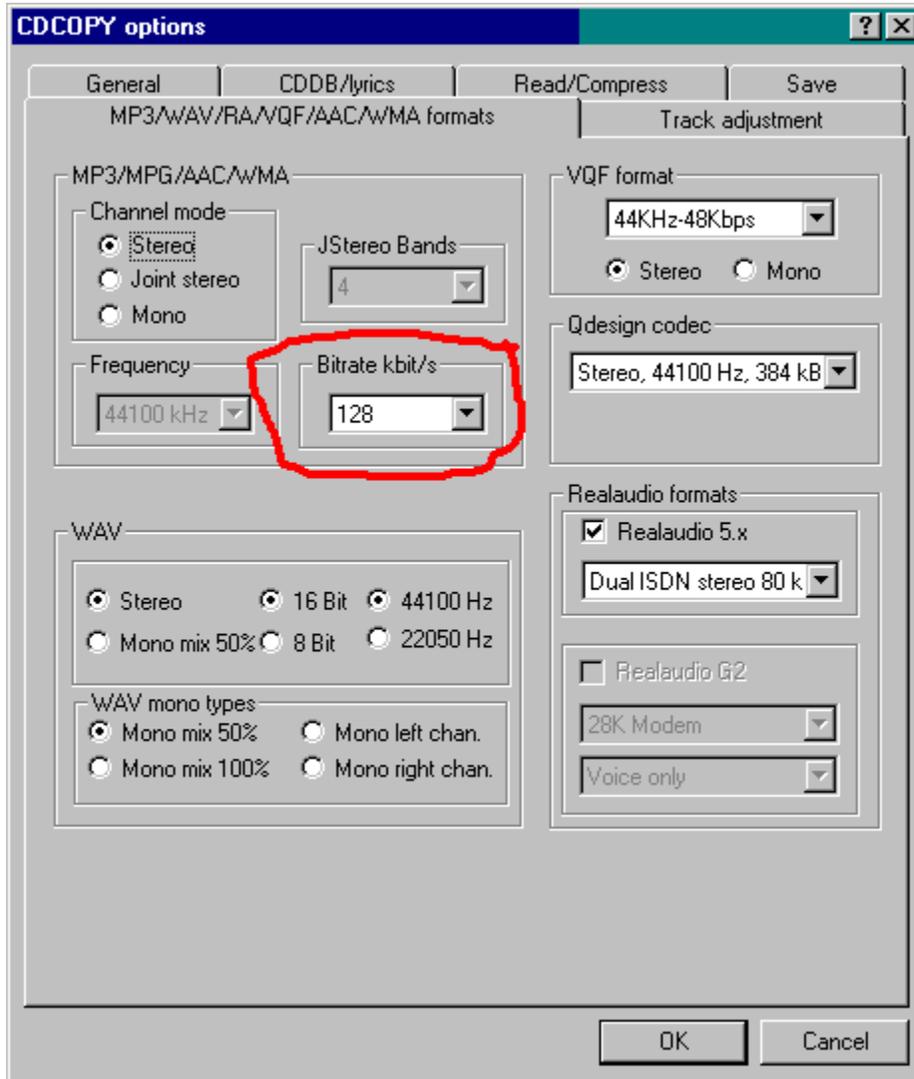


Select a track and press "Write" (diskette button). First the track is read and saved as an intermediate WAV-file. After the reading has finished the WAV-file is converted to MP3-format. When compression starts a process window like the following is shown:

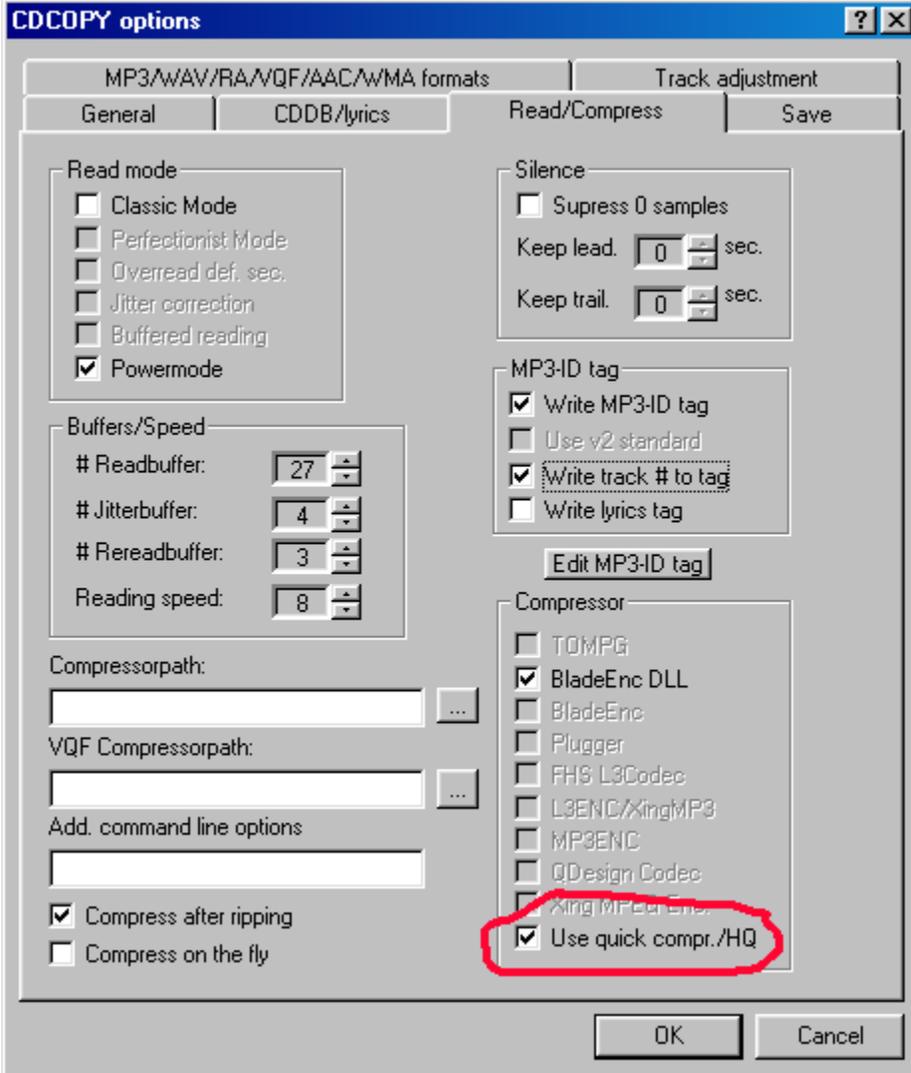


Some words about quality:

Open the options dialog using the right mouse button on the main dialog (not in the listbox) and choose the MP3/WAV/RA ... parameter section. Here you can enter parameters concerning the different file formats. A simple rule - The higher the bitrate the better the quality the larger the files.



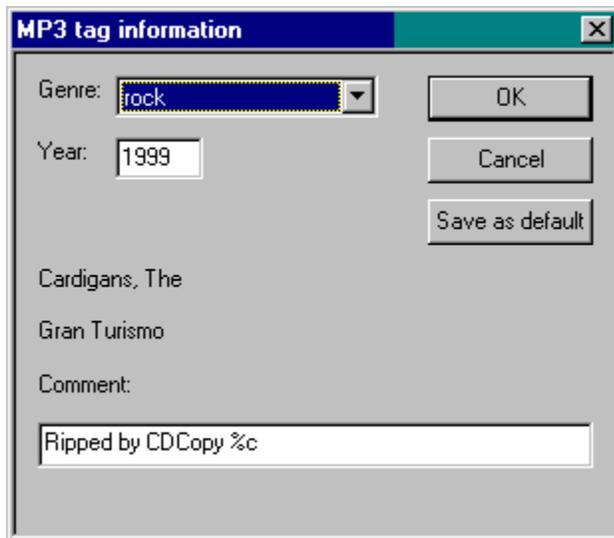
The default bitrate is 128 KB for all MP3/WMA/AAC compressors. Some compressors support two modes for compression - a fast mode producing lower quality and a slow mode producing high quality. You can switch between this two modes in the read/compress parameter section.



CDCopy MP3-ID tag setup

When generating the MP3 or other compressed formats a standard called MP3-ID Tags allow us to save the information retrieved through the CD-database in the files. This setup only makes sense when your CDDB access works! Most of the MP3-players are able to show these information when playing the files. You can use it to catalogue your files using other programs. Whenever a compressed format supports something like the ID Tags the available information is used.

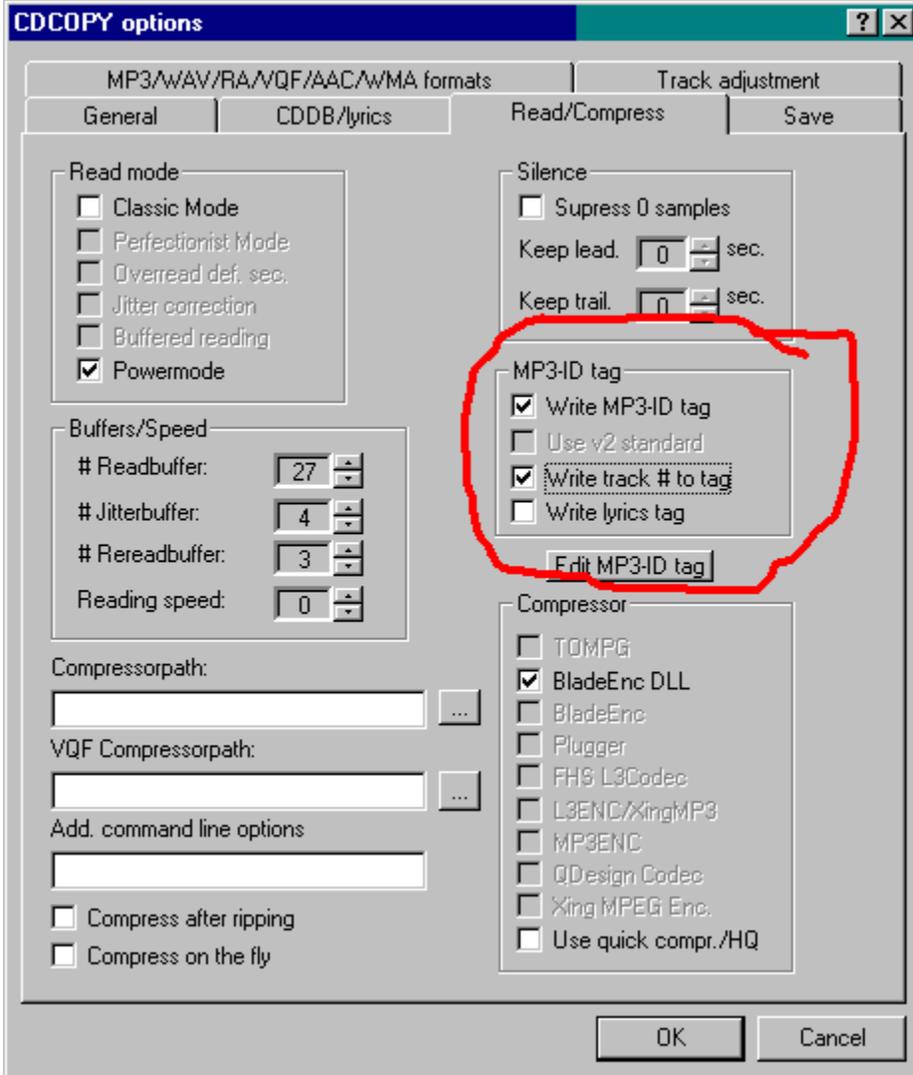
To setup CDCopy saving these information please follow the next steps. Open the Edit menu and choose MP3 Tag info:



A music category can be chosen for the track. The production year of the track is by default set to the actual year.

You can enter a free comment. The comment entered in the example above includes the "%c" token - This token is replaced with the chosen compressor. e.g. BladeEnc, L3CODEC etc. This feature allows you to identify the compressor which was used to compress the file. Pressing OK the information is used for the actual CD - if you press "Save as default" the entered information is used as default for all subsequent CDs - If you don't save the entered information you have to enter them for every new CD.

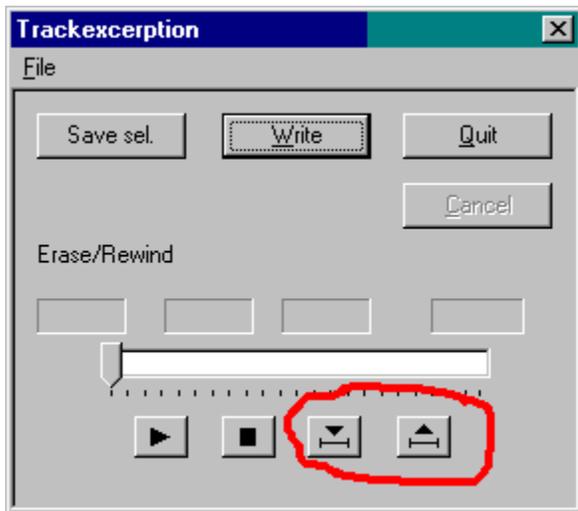
Open the option dialog and choose the read/compress parameter section. Check the "MP3-ID tag" and the "Write track # to tag" options like shown in the example below. The "Write track # to tag" is a possibility to save the tracknumber in the ID tag - Most players are able to show this.



CDCopy track exception

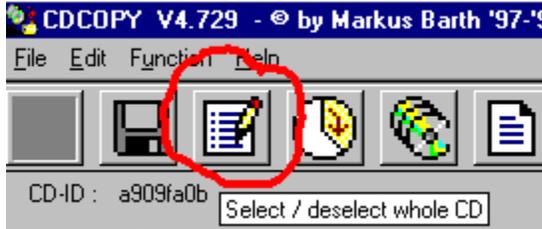
If you don't want to read a whole track but only a part mark the track in the listbox and press after that the right mouse button on the marked track to invoke the exception dialog. Select the start and stop position with the marked buttons.

Press the "Write" button to start the reading of the exception. A file with the name TRACK_XX_YY.ZZZ is written to entered savepath (Save parameter section) where XX is the track number, YY the exception number and ZZZ the extension of the selected file format. If you save several exceptions the exception number is increased by one every time you write a new exception. The "Save sel." button saves the made start/stop selection so that you are able to save one selection for several tracks e.g. the first 10 seconds and write them all after closing the exception dialog and pressing "Write" on the main dialog.



CDCopy CD player

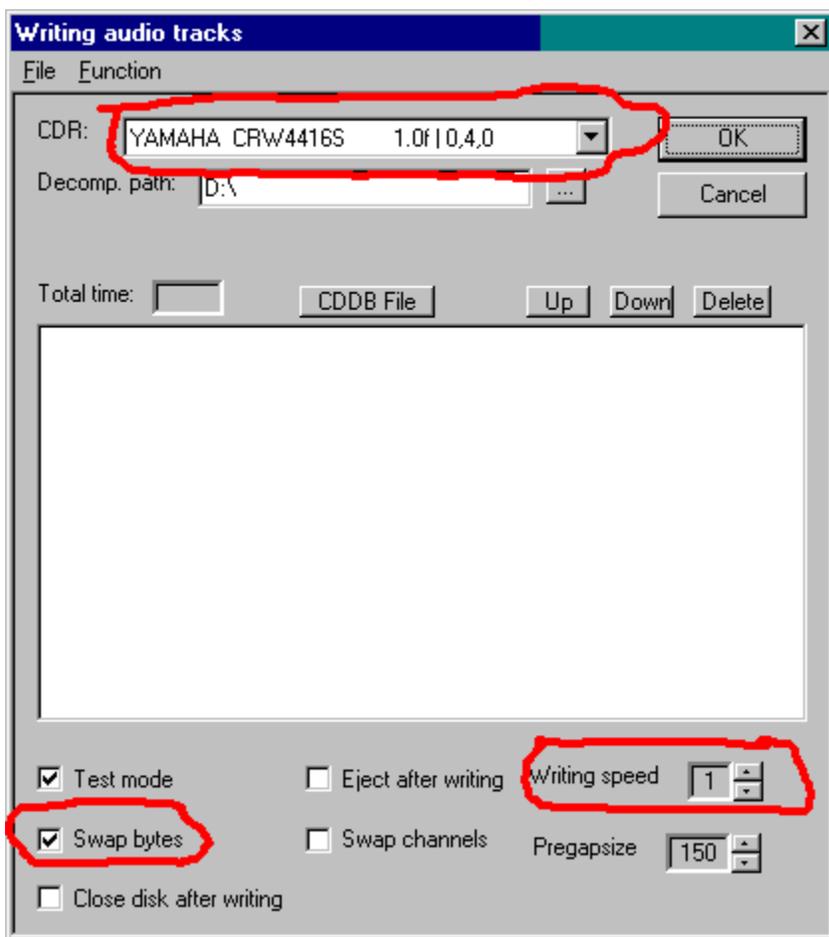
The CD-player functions of CDCOPY doesn't behave like those of normal players. Only marked tracks are played. If you mark the first, fourth and seventh track and press play only these marked tracks are played. Pressing for- and backward the operation is performed on your marked tracks not on all tracks available. The normal player behaviour can be simulated by marking all tracks with the select/deselect button.



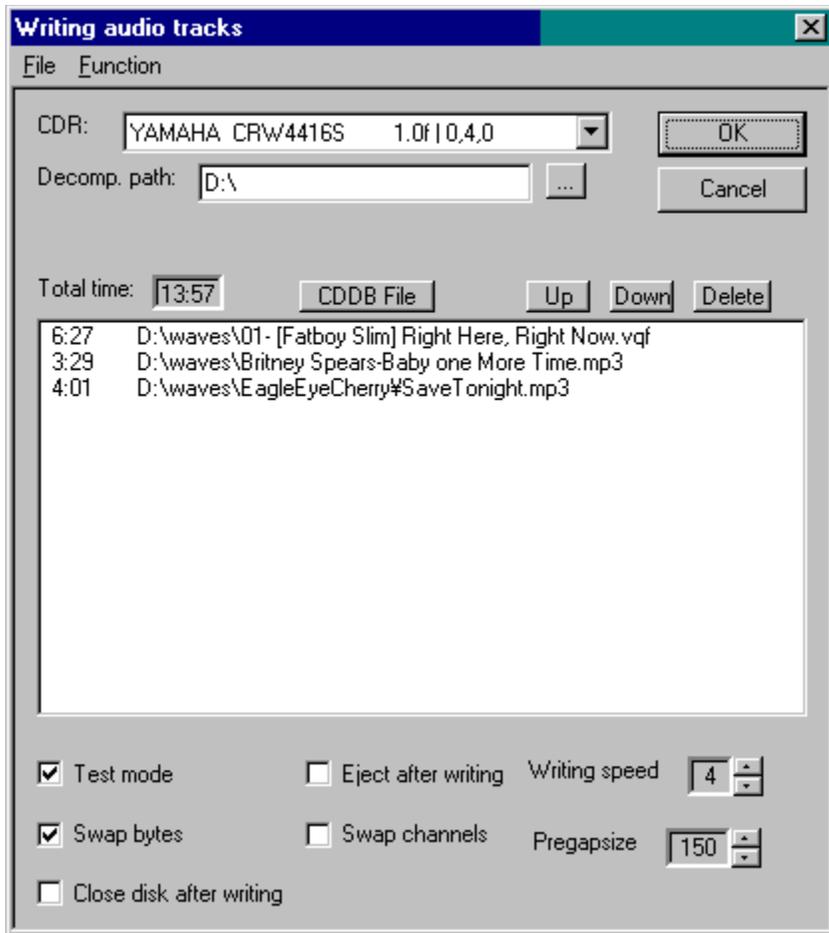
CDCopy CD-writing

Open the CD-writing dialog using the File menu. Select the cd-writer you want to write to. By default the "swap byte" option is checked. This works for most of the different writer models. If you hear noise after writing a CD and no music - change this option! I can't say which writers need to uncheck the option. If you write MPx/VQF or WMA format to a CDR the files are decompressed before writing. The decompression is done for the file which actually will be written - not for all files. So you don't need very much space. The decompression path is the location where the decompressed file will be located.

The pregap size option determines how long the pause between two tracks is. By default the size is 2 seconds. Only few writers support this option to change the value e.g. HP 8100 / Sony CRX100. Most of the writers will make the pause between the tracks even you set it to 0. Unless you set the "Close disk after writing" option you will not be able to play the CD in a normal CD-Player. After the disk has been closed you are not able to add a track.

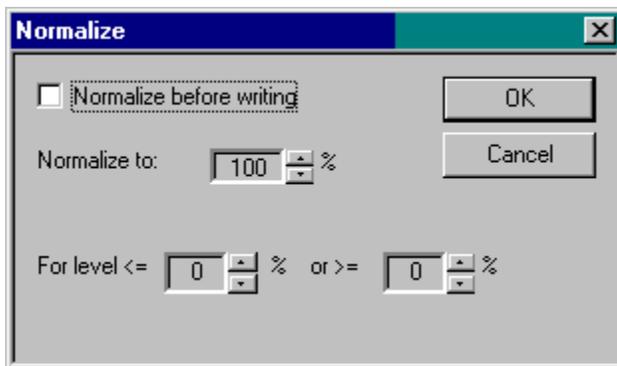


Drag some files from the explorer over the shown listbox.



Use the Up/down and delete button to determine the order of the tracks on the CD. If you insert more than 74 min. of music you get a warning message - you can ignore this message if you use a 80 min. CD - if not - please remove some files so that the needed time is below 74 min.

If you want to save the track selection open the file menu and use the save item. You can load an already saved project through the load project menu item. Opening the function menu you can select the normalize dialog:



Because tracks from different CDs have a different level of loudness this dialog allows you to set the

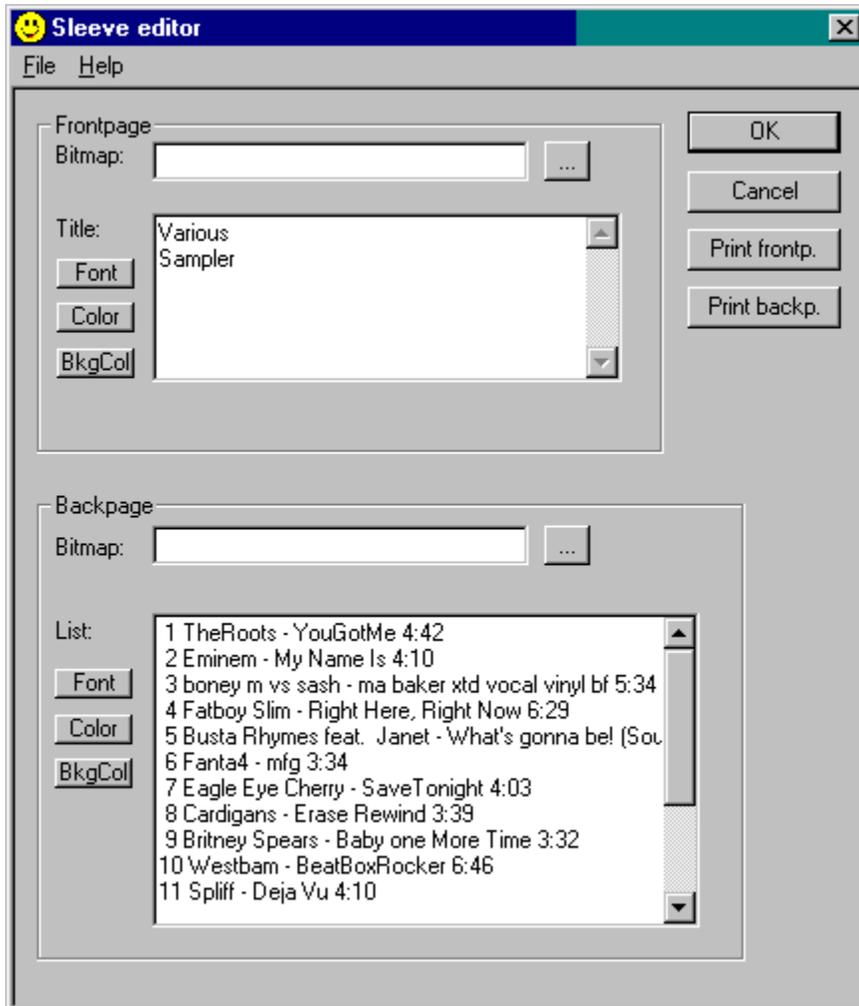
loudness of the different tracks to one level. Check the "Normalize before writing" option to activate the normalisation. Use a normalisation level of e.g. 100% to set all tracks to the maximum level. By default the test mode writing is activated - if you write files downloaded from the internet you should definitely make a writing in test mode before actually unchecking this option to start the burning process because there are often non standard or defect files which can't be decompressed. You will see this in test mode writing without loosing a CDR medium. After a successful writing in test mode uncheck the option - Don't forget to check the "Close disk after writing" if you want to use the CDR after the burning process in a normal CD-player.

After the burning process you can ease the making of a CD-Inlay by using the CDDDB button. If you used the "eject after writing" option load the tray first and wait till the drive recognized the CD. After that press the CDDDB button: A CDCopy compatible CDDDB file is written now - you can use it later to make a CD inlay without entering the artist and track title information manually because most time this information is already available in the file names of the files you selected for writing.

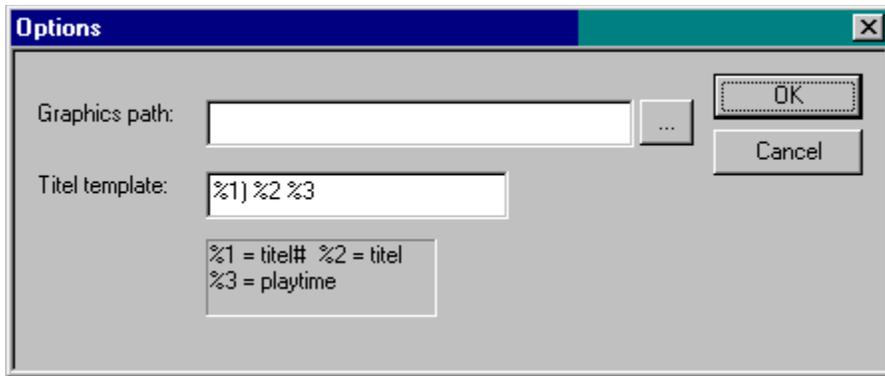
CDCopy Sleeve editor

After writing a new CD choose "Sleeve editor" from the Edit menu. Three windows are opening. One for the backpage, one for the frontpage and one to modify the design of the inlay. Here you see the that the CDDB information is transferred from the main dialog. You can modify the texts if you like without changing the CDDB file. Have a look at the File menu where you can find the items Aquire/Select source - these functions allow to you Select a source for scanning and start the scanning process (Aquire).

The scanned graphics can be used later for designing the inlay. The shown windows are not WYSIWYG!



The options dialog allow you set a default path your bitmaps. The title template allows to restructure the CDDB information using the offered tokens mentioned below the title template field.



The function menu of the back- and frontpage window offer further options. You can insert prepared bitmaps and disable the CDDB texts. The backpage window allows you to stretch the bitmap over the whole page or to the inner rectangle.

Use the "Font", "Color" and "Bkg. Col." buttons to change font and/or color of the inlay.

You start the printing by using the "Print frontp." and "Print backp" button. At the moment you can't save the inlays!

Normalize filenames

The filenames are converted to be a Unix conform. This means all characters are lowered and all special characters are removed. Spaces are substituted by points.

Generate Surestream

The Realaudio Surestream format includes several bitrates in one stream. The G2 server is able to dynamical adjust the bitrate to the clients transfer rates.

Copyright entry

Some file formats support a Copyright field entry. You can enter a value for this field here. Attention, the field is not saved per CD but global!

Remove WAV after file compression

When using the file compression function this option allows you to remove the source file (WAV-format) automatically.

Reboot system when ready

Not just shut down the system - reboot it.

Exclude bitrate parameter for l3enc

When using the Xing MP3 encoder in VBR mode use this option to prevent cdcopy from using the bitrate parameter which can't be used parallel to the bitrate parameter.

