

OptyCDPlayer

Stéphane Barbaray

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COLLABORATORS

	<i>TITLE :</i> OptyCDPlayer		
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Chapter 1

OptyCDPlayer

1.1 Index

OptyCDPlayer 2.1

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1.2 Introduction

At the beginning of the year 1996, I purchased a CDRom drive. As I wanted to play audio CDs (CDDA) I started to search for CDplayers on Aminet. But after some tries with a lot of players, none of these convinced me, mainly because there was no player that can do test for diskchange by themselves as I own an Apollo SCSI2 controller that don't recognize diskchange interrupts. So I decided to program a player with a lot of features and here is OptyCDPlayer!

This CD player is not finally a simple player. Of course you have all the functionality of a real CD player but with some special things like Title edition, Multiple program edition, and CD SAMPLING!

This program is copyrighted 1996, 1997 by Stéphane Barbaray. It is EMailWare, so just send me E-Mail to give hellos and feedbacks about this program and all will be fine... If your CD drive can do sampling and it is not on the CD sampler list, just tell it to me !

1.3 Legal stuff

OptyCDPlayer is copyrighted freeware. It may be distributed freely as long as no modifications are made to the executable and this document. A nominal fee may be asked to cover distribution costs.

OptyCDPlayer may not be used for any commercial purposes or included with any commercial product without the written permission of the author.

No responsibilities are taken for damaged CDs, CDRom drives, Amigas or any other components or data involved while using OptyCDPlayer.

Although I've done some beta testing I can't guarantee that OptyCDPlayer will not crash! If you find any bugs, let me know.

Copying is prohibited with some types of CDs so don't copy them!

1.4 Installation

Computer: Any Amiga 68020+ running Kickstart/Workbench 2.04 or greater. Hardware: A CD-Rom drive. A soundcard or a fast CPU is recommended. Software: You need **MUI** 3.1 or later. See **MUI** part in this document (Hello Stefan!). You need NList.mcc and NListView.mcc (partially included in the distribution). **Play16** 1.5+ for replaying sample, available on Aminet in mus/play folder. **SongPlayer** for replaying MPEG & AIFF samples, available on Aminet in mus/play folder. You also need the **AHI 4 package** available on Aminet (mus/misc/ahiusr.lha) to be able to play in realtime.

Just copy the main program where you want. The catalog directory must be in the directory where you have put the main program or just place it in "sys:locale/". The other directories supplied with this program **MUST** be in the same directory of the program.

Just dearchiving the distribution where you want OptyCDPlayer to be placed will be fine too...

1.5 Configuration

Configuration is made thru the **preferences** page. You must select Prefs/Save from the menu to save them.

1.6 GUI description

Player page Title page Programs page Sampler page Preferences page

1.7 Player page

It contains all the common commands of a real CD player. The list at the right contains the title that you affected for each track. Double-clicking on a title will play this title. The volume sub-panel is the software control of the volume. It may not work with some exotic drives ! A-B repeat mode has been made to repeat a portion of a track from A to B.

1.8 Title page

This panel is very easy to understand: all you will have to do is to insert the CD you want to edit, to modify each title, and to save in one of the proposed format when you have finished. The buttons in the second column are for format conversion. 'Merge DB' button permit to merge a database to the program database. 'DB Viewer' will open a listtree sub-window that show the content of the actual database.

NOTE: The files saved are compatible with CD Descriptions of MCDPlayer and others, excepted when YACDP option is activated!

1.9 Programs page

This panel is based on Drag&Drop facilities of MUI3. As with the **title page**, you must have a CD to edit your programs. You can have 8+1 programs for each CDs. The first program is for automatic playing at CD insertion. You can play a track multiple time in a program. To add an entry, just drag one item from the source to the destination.

1.10 Sampler page

To save a part of your CD:

1) Insert the CD 2) Choose the TRACK number 3) Choose the number of seconds the sampling must START 4) Choose the number of seconds for the sampling DURATION 5) Select the file to save (required) 6) Select the type of drive if not already done 7) Select your preferred format, channel, frequency 8) Click on save or Save&Play (Save THEN play)

The play button is only for an already saved sample. If the sample is in RAW format you MUST adjust correctly format, channel, frequency because Play16 don't know anything about the sample that you ask for replaying!

PIPE: must be mounted for AIFF and MPEG saving!

Realtime audio is disabled while saving MPEG because it's too slow

* WARNING * This functionality uses SCSI commands that are not documented, this may or may not work with your CD drive. Use it at your own risk. Don't forget that Copying is prohibited with some types of CDs.

Never use Amiga audio mode if you are low-powered!!!

Reported to work on: TYPE: MODE: Toshiba XMxxx1B series (SCSI) TOSHIBA Toshiba XMxxx2B series (ATAPI) ATAPI Sony CDU 541,561,8002,8003,??S,... (SCSI) SONY Sony CDU ??A, ??E (ATAPI) ATAPI Apple CD300,CD600 (SCSI) SONY Pioneer DR-124X (ATAPI) SONY Pioneer DR-U10X (SCSI) SONY Pioneer DR-U104X (SCSI) SONY Pioneer DR466-U12X (SCSI) SONY IBM PS/2 CD drives (SCSI) TOSHIBA Hitachi CDR (ATAPI) ATAPI NEC CD drives (ATAPI) ATAPI Chinon CDS-535 (SCSI) SONY TEAC CD-??S (SCSI) SONY TEAC CD-58E (ATAPI) ATAPI Yamaha CDR102 (SCSI) SONY Hitachi CDR-7730 (ATAPI) ATAPI GoldStar GCD-R580B (ATAPI) ATAPI Nakamichi cd-changer (SCSI) SONY Matsushita-Kotobuki (Soundblaster CD) (ATAPI) ATAPI

Reported to work on:} Aiwa ACD300 (SCSI) NEC 3X Multispin (SCSI) Panasonic CR-506 drive (SCSI) Sanyo drives (SCSI) Sanyo drives (ATAPI) Overdrive/Zappo (ATAPI) Mitsumi FX series (excepted 800) (ATAPI) Wearnes (ATAPI) Teac CD-??A (ATAPI) Acer Vuego 655 (ATAPI) Acer 8x CD-787E (ATAPI) Compaq CR-503BCQ (ATAPI)

And all drives that are accessed thru cd.device command mode

If your CD drive is not in one of these two lists, tell it to me !

1.11 Preferences page

Device Put here the device of your CDROM controller. Default is "????device".

Unit Choose here the unit of your CDROM. Default is unit 005. Ones digit = Unit (SCSI unit number) Tens digit = LUN (disk within disk changer) Hundreds digit = Card number (SCSI card)

Play16 This is the path that OptyCDPlayer will use for running play16 when it needs to play the sample. Default is "c:".

Disks This is the path that OptyCDPlayer will use for searching disk id files. Default is "progdir:disks".

Gadgets This is the path that OptyCDPlayer will use for finding its gadgets (Play, Eject, ...). That permit you to use your own gadgets. Default is "Progdir:Gadgets/Default".

Intro Time The time played for each title in introscan mode

Mem type Allow you to choose the type of memory your controller need for sampling. 0 = ANY 1 = PUBLIC 2 = CHIP 4 = FAST 512 = 24BITDMA If you want, for example, FAST PUBLIC memory use 5 (4+1)

Async Buffer The size of the asynchronous write buffer default is 4096 (should work in most case but slow down sampling). 2048 is the minimum. If a lower value is selected then non buffered write functions will be used instead... It has been added because of some problem encountered with cpu-sucker controllers. Before, a buffer of 307200 bytes (75*4096) was used but it's only worked if the cpu was not overloaded with the CD drive controller or by other tasks !

Filenote Enable or disable the possibility to add filenote with disk files Warning: filenotes (file comments) significantly slow down DCFS ! Default to ON.

YACDP If enabled the filename format used for saving diskfiles is YACDP instead of MCDPlayer. This option does *not* affect in any way the filename recognition, to say that MCDplayer filename is still checked when inserting a CD, and vice versa. Default to OFF.

Rezero Some Drives don't like the normal stop command, rezero_unit command can be used instead with this. Default to OFF

Time Use this when you get a bad display count for playing time or when Rewind and Forward don't work. Default to OFF

CD32 Emulation Enable the "cd.device" (originally made for CD³²) command mode. Be careful, you must only enable this mode if your device can not handle SCSI commands, otherwise this could lead to severe crashes! Note for Atapi_pnp300 cd.device owners: your device can work with or without this mode enabled but I recommend you not to enable it, because sampling can't be made, as far as I know, thru cd.device command mode!

Voltype The volume type supported by your CD drive. Off means soft volume disabled. Default is On (normal use) If the volume still don't work, it's because your CD drive can't support Software modifications of the volume... Sorry This slider has no effect with CD32 command mode.

Replace If On, the already existing discs are replaced when adding to the database, otherwise they are skipped.

AutoShow If On, the player is uniconified when inserting an AUDIO CD.

AutoPlay If On, the player automatically starts playing when inserting an AUDIO CD.

Play xxx Permit you to choose the play command that best fit for your drive, but keep in mind that Play12 is the most complete command and fit best for OptyCDPlayer functionalities.

Tolerant When activated, it doesn't check for read error when sampling, and that permit some drives to work better...

Alarm Start to play the CD at the indicated time...

The 'keys' group is for shortcuts of the main buttons of the player. These shortcuts are global to the CDplayer (valids at any page)

Prv (previous track) Default: F1

Rwd (fast rewind) Default: F2

Play Default: F3

Stop Default: F4

Fwd (fast forward) Default: F5

Nxt (next track) Default: F6

Eject Default: F7

all is saved when selecting Prefs/Save in the menu.

1.12 Rexx interface

OptyCDPlayer has a minimal Rexx interface because it is not meant to be a 'rexecd' replacement. Anyway the commands set actually available should be enough for CD control with SCALA or equivalent...

```
|Command |Template |Description |Return code| lquit |FORCE/S |force to quit optycdplayer |none | lhide | liconify |none | ldeacti-
vate | liconify |none | lshow | luniconify |none | lactivate | luniconify |none | linfo |ITEM/A |give info about an MUI item |none ||
|(see script example) || lhelp |FILE/A |give list of commands and |none || | ltemplates || lplaytrack |T=TRACK/A/N,O=OFFSET/A/N,
|play track T from O secs |0=success || | lID=DURATION/A/N |during D secs || | ljump |S=SECONDS/A/N |jump S secs ahead
|0=success || | |(or back with a neg value) || | lprevious | lgo to start of track or |0=success || | | lprevious track || | lplaypause | lstart
playing or go into |0=success || | | lpause if already playing || | lnext | lgo to next track |0=success | leject | leject (no need to stop
before) |0=success | lstop | lstop playing |0=success | lstatus | lget status of the player |0=NoDisk, || | | l1=Playing, || | | l2=Stopped,
|| | | l3=Paused, || | | l4=Datadisk |
```

1.13 DataBase Converter

The database file format has completely changed since V1.9 ...

To keep your old database, you MUST first use "Tools/DBConverter" to convert its files!

1.14 CDID Disk Repair

CDIDRepair transform the (known) mutant CDID files to normal ones.

This tool will change the following things on these CDID files:

- If the Artist field contains a name following this rule: "ID?????????????" and the CD title field contains a name with this other rule: "#? - #?" then the first part of the CD title will be moved in place of the Artist field. Ex: Artist: ID0600A24201F99D Title: death NATURE - Masquerade -> Artist: death NATURE Title: Masquerade
- If it encounters between each titles a line containing only "0" or "1" , it will remove this extra line.
- If there are (still) extra lines after the last title (maybe the lyrics) they will be REMOVED.

In normal mode All modified files are NOT replaced a corresponding ID#?.new file is saved. It's up to you to verify the correction then replace the older...

In destructive mode (activated by the Tooltype DESTRUCTIVE) Each UNmodified file will be DELETED and each mutant file will be replaced by its corrected version.

1.15 Bugs

- Some devices refuses CDDA already in them when first opened, they complain that the device can't be opened! NOTE: This is a bug from the device file on which the drive is!
- The software Volume don't work with some CD drives
- The CD Database contains a few strange CD ids that was not generated by my CDs nor my CDdrive, I don't know if it's really good to keep them...
- I figured out that there is some drives that give different results about track duration each time the same CD is inserted (!)

Send bugreports to the [author](#) The subject field MUST contain the word "opty"

1.16 Future

- more catalog files - Resume mode - Possibility to record more than one track in one shot, let says the entire Audio Disc! - Suggestions ?

1.17 FAQ

The program seems to play but I can't ear anything, why? When a CD drive is playing audio, the sound does not come from the Amiga audio output. To ear something from your drive there is 3 solutions: - Connect your amplifier to the cd audio pins located at the rear of your drive. - You can connect your amplifier onto the jack connector in front of your drive but this output is made for earphones and not for amplifier. - If you are an A4000 lucky owner you can connect the rear pins of your drive onto a connector somewhere on your motherboard called 'audio mixing' or something like that. So that you will be able to ear the sound directly from your Amiga audio output.

Why not playing directly in sampling mode - Time progression and status does not work in this mode, a hack is needed. - It's a CPU sucking solution. - It needs a lot more memory. - It only works on a few drives.

Why not splitting this xxx unit slider into 3 sliders? Because some strange devices accept unit from 0 upto 11 (!)

Ejecting of a CD does not ZERO the CD data (playlist is still shown) As some devices needed more test to detect diskchange there is a side effect with other devices that buffer tracklist.

I can't do sampling anymore since V1.9! You forgot to install AHL...

Why using MUI? -MUI is very intuitive and very complete. -MUI avoids me to spend all my time in programming the interface. -MUI is *NOT* slow. -MUI interface is completly user configurable. -All these apps made with MUI show all its power.

I've lot of problems with my Mitsumi drive, and it can't sample Mitsumi drives suxx from the start to the end! It will never do sampling! Sorry guy, but you made a very bad choice...why not giving it (or making a deal) to a PC user ;-)

How can I know if my drive support software volume? Very easy, just activate 'volume' mode in the prefs page then start playing a CD and move the volume knobs, if the volume is changing then congratulation, your drive can support software volume! BTW, it may not support all the 256 levels, it may only recognize 2 levels: ON and OFF (I call them Mute-Mode-Shitty-Drives)

1.18 About Play16

Play16 is copyrighted by Thomas Wenzel Play16 is FreeWare See its documentations for more informations...

1.19 About SongPlayer

SongPlayer is copyrighted by Stéphane Tavenard AudioConvert is taken from SongPlayer SongPlayer is FreeWare See its documentations for more informations...

1.20 About AHI audio system

AHI is Copyright ©1994-96 Martin Blom (lcs@lysator.liu.se) AHI is Freely distributable in unmodified form. Device-independent audio, second try.

(When refering to this software, the correct term is 'AHI audio system' or just 'AHI', never 'Audio Hardware Interface'!)

This is a beta release of the AHI audio system. The intention of this release is to gather opinions about the design and attract programmers using the system and/or contribute with sound card drivers.

Quick overview:

- * Driver based

Each supported sound card is controlled by a library-based audio driver. For a 'dumb' sound card, a new driver should be written in a few hours. For a 'smart' sound card, it is possible to utilize an on-board DSP, for example, to maximize performance and sound quality. Available today are drivers for Paula (8/14/14c bit) Wavetools Delfina 8SVX (mono) and AIFF/AIFC (mono & stereo) sample render

- * Fast, powerful mixing routines (yeah, right... haha)

The device's mixing routines mix 8- or 16-bit signed samples located in Fast-RAM and outputs 16-bit mono or stereo (with stereo panning if desired) data, using any number of channels (as long as 'any' means less than 128...). Tables can be used speed the mixing up (especially when using 8-bit samples). The samples can have any length (including odd) and can have any number of loops.

- * Support for non-realtime mixing

By providing a timing feature, it is possible to create high-quality output even if the processing power is lacking, by saving the output to disk, for example as an IFF AIFF or 8SXV file.

- * Audio database

Uses ID codes, much like Screenmode IDs, to select the many parameters that can be set. The functions to access the audio database are not too different from those in 'graphics.library'. The device also features a requester to get an ID code from the user.

1.21 About MUI

This application uses

MUI - MagicUserInterface

(c) Copyright 1993/94 by Stefan Stuntz

MUI is a system to generate and maintain graphical user interfaces. With the aid of a preferences program, the user of an application has the ability to customize the outfit according to his personal taste.

MUI is distributed as shareware. To obtain a complete package containing lots of examples and more information about registration please look for a file called "muiXXusr.lha" (XX means the latest version number) on your local bulletin boards or on public domain disks.

If you want to register directly, feel free to send

DM 30.- or US\$ 20.-

to

Stefan Stuntz Eduard-Spranger-Straße 7 80935 München GERMANY

1.22 Credits

Thanks go to the following persons:

- Stefan Stuntz for the excellent **MUI** - Martin Blom **AHI** - Gilles Masson NList.mcc/NListview.mcc - Stéphane Tavenard its MPEG/AIFF replayer & converter - Thomas Wenzel the great **Play16** - The ATO the translation coordination - Joern Koerner CD descriptions, german catalog - David Le Corfec additional CD descriptions - Rudy Top betatesting & icons - Manos Konstantiniadis greek catalog - Teemu Toivola finnish catalog - Alex/Pierluigi Giuliana italian catalog and guide - Amiga Translators Org. other catalogs - Fabien Letouzey optimization advices - Oliver Kastl Atapi sampling help - Stefan Becker suggestions and advices - Niels Bache Dansk catalog and guide - Szymon Kosecki Polish catalog - Eirik Bogsnes Norwegian catalog - Thomas Andersson Swedish catalog and CD descriptions - Frank Wuerkner YACDP diskfile format - Espen Skog cd.device help - Ralph Reuchlein German guide & catalog - Bachorik Jaroslav Slovak catalog - Raphael Tavenard for the PIPE: idea - Frederik Rambris - Frankie Barbaray - Stanis Humez - Arnaud Ladriere - Fabrice Platel - Laurent LeBoeuf - Frank Selve - Michael Bruyere - Fabien Fouret - Mike Budau

All the people that support this program, OptyFileManager & the Rayvery 3D Software development

1.23 Author

Stéphane Barbaray

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24 years old

General Certificate of Education type E (Maths & Technologies). Bachelor of Computer Science from the University and Technical Department of Lille. 3D Modeling and Multimedia specialized. 1997: JAVA programmer at CompoData SARL (France)

Hobbies:

Computing :-), Internet, Techno, Karting

Computers:

Amiga 1200T Apollo 1230/50/882/50/SCSI2 16Mb RAM 1.3Gb HDs DD & HD floppies Toshiba XM3401b CD drive (2x) SVGA & PAL/NTSC 14' monitors Big Tower

PC AMD K6 200 ASUS TX97X motherboard (with 512k cache) 32Mb SDRAM (6ns) 4.3Gb HD (Ultra DMA) Matrox Millennium 4Mb (220Mhz version) AWE64 gold Toshiba 16x CD drive NE2000 ISA card Big ATX Tower