BurnIt

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	TITLE : BurnIt		
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Chapter 1

BurnIt

1.1   Contents

BurnIt V2

The CDR software for Amiga & Draco computers

User   manual
Version 2.20

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Preface

Legal

Prices

Distribution

Requirements

Supported CD-Recorder

Installation
                              New features in V2
            Introduction

Windows

BurnIT's preferences

Quick Start
                              Create a Data-CD

1.2 Thanks to

```
Thanks
------
```

There are a number of people who we would like to thank for their support:

    Ingo Kleefeld for bug reports, ideas and more...

    Alexander Seesko for bug reports

    Marc Czascke for the Philips CDD2000 support

    Thomas Wenzel for Play16

    SONY(R) for the SCSI command set

    Mr. Haecker of Mitsumi Germany for his fast and uncomplicated help

    all beta testers

and last but not least, all registered users

1.3 Preface

Welcome to BurnIT

Congratulations !!!!!!

You have purchased an easy to use, high performance CDR program for the
Amiga and Draco.
BurnIt was designed for professional use and offers a great variety of
features which are not available in other products.
As a special feature BurnIt can also be used to backup Amiga partitions.
We have also added support for the next generation of Amiga processors,
the Motorola PowerPC.

1.4 Who has made BurnIT

Responsible for BurnIt

```
            Code:  Axel Deising
                   Michael Siegel

          Manual:  Axel Deising
                   Michael Siegel
                   Michael Garlich

 Manual revision:  Klaus B. Kuesche

English translation:  Mat Colton
                      Michael Garlich
```

1.5 Legal Stuff

The information in this manual is published without consideration of
possible patent protection.

Trade names are used without warranty of free use.

The compiling of documents and pictures was done with great care, never-
theless mistakes cannot be fully excluded.

The publisher and the authors can and will not undertake neither legal
responsibility nor any liability for wrong instructions and their conse-
quences.

```
Trademarks
----------
AMIGA is a registered trademark of Gateway 2000.
```

All other products mentioned in this guide are trademark by their manu-
facturers.

1.6 Prices

```
Prices (SRP)
------------


BurnIT -   Track At Once  - DM  99,- or 50 Euro (incl. online guide)
BurnIT -   Disc At Once   - DM 159,- or 80 Euro (incl. printed manual)
BurnIT - OEM Disc AT Once - ONLY FOR SALE WITH A CD-RECORDER!!!! Ask your dealer.
```

1.7 Updates

```
Updates
-------
All registered users of BurnIt will be contacted as soon as an update is
available.

Updates are not for free.

The update fee may differ, depending on size and depth of update.

Users who have updated still own a single user licence. It is not allowed
sell or give an old version to anyone.
If this happens the old and the new user are excluded from further updates.
Legal prosecution may follow.

All registered users can inform themselves about the current version through
our support homepage, the Aminet or print and online magazines.

All registered users can get minor updates by e-mail.
Major updates are not for free.

If the upate is sent by snail mail, an update is not for free.

If a user who has upgraded from TAO to DAO sells his TAO version, his version
is not upgradable anymore. This is also valid for same versions, e.g. from
DAO v1.0 to DAO v2.0.

Second hand BurnIt versions are not automatically upgrade enabled. We reserve
the right to decide if a second hand version is upgradable.

Demo versions of major updates are available on our homepage and from Aminet.




Updates:
BurnIT 1.x DAO to BurnIT 2.x DAO    DM 49.- or 25 Euro
BurnIT 1.x TAO to BurnIT 2.x TAO    DM 49.- or 25 Euro

new printed manual plus DM 15.- or 8 Euro

BurnIT 1.x TAO to BurnIT 2.x DAO    DM 125.- or 64 Euro (incl. new printed manual)
BurnIT 2.x TAO to BrunIT 2.x DAO    DM  59.- or 30 Euro (incl. new peinted manual)


Crossupdate:
```

only from commercial software! You have to send your original disc, former
updated disc will not be accepted only the latest version is valid.

CD-recording package xyz to BurnIT 2.x DAO 100.- or 51 Euro

printed manual plus DM 15.-

1.8 Support

Hotline for registered users:

DnS
Axel Deising
Am Walde 3a

D-28816 Stuhr
Germany

Tel.: ++49 04206 / 299 370 Monday from 15.00-18.00 MET
Tel.: ++49 0421 / 48 16 20 Monday - Friday 10.00 - 19.00
Fax.: ++49 0421 / 48 16 20
Email: MacFly@TitanComputer.de
       Deising@TitanComputer.de

Support Homepage:
http://www.TitanComputer.de

1.9 Megaverteilung

Distribution through

Titan Computer
Mahndorfer Heerstr. 80a

28307 Bremen
Germany

Tel: ++49 0421/481620
Fax: ++49 0421/481620

WEB: http://www.TitanComputer.de

Office hours:

Mo - Fr.   10.00-13.00 and 15.00-18.00 MET
Sa.   10.00-14.00 MET

1.10 Requirements

```
                        Required hardware
                -----------------
BurnIt  needs  an  Amiga or a Draco with a 68030 or higher processor and at
least Kickstart / Workbench 3.0, also 8MB free FastRam.

ATTENTION: To be able to write CDs on the fly you need at least a
68030/50MHz, a fast SCSI host and devices.

You also need a harddrive with at least 650MB free space and  some  (>=8MB)
fastram.  The  more  fastram  you have, the better it is. How much ram you
will actually need depends on what you wish to do.

Oh and, by the way, you will need a CD writer :-)

At the moment BurnIt supports over 50 different CD writers including the new
Re/Writeables in TAO/DAO mode, as long as the CD writer itself supports it.
If you can't find your CD writer in the
                        supported
                         list
DON'T PANIC! Check the list of supported CD writers this will help in any
case.


Required software
-----------------
BurnIt needs at least Workbench 3.0. If you are using an earlier version
errors and system crashes may occur. Loss of data is possible if this hap-
pens.
```

1.11 Install Burnit

```
Installing BurnIT
-----------------
Here´s how to install BurnIt to your hardrive:

- Turn on and boot your Amiga if you haven't done so yet.

- Insert the BurnIt floppy and double click the disk icon.

- Then you can see the contents of the disk and an icon named "Install_BurnIt",
  double click this icon too.

- The installer will pop up and will ask you in which drawer BurnIt should be
  installed. The installer will create a drawer named "BurnIt" there.

- For the moment, please don´t change the preferences.

- Click on the OK gadget.

- The installation will now proceed automatically.

- The installation script will ask you to insert the second disk.
  After a moment the register requester will pop up. Fill in your personal
```

data and the register nr. from the second BurnIt disk.

- After completing the installation you can start BurnIt immediately,
  you do not have to reboot.

HAVE FUN!!

If an error requester pops up after clicking the install icon, by sure you
are using at least V43.3 of the Installer (available on Aminet).

Copy the new Installer into the search path of your WB (e.g. C or Utilities)

1.12 Register BurnIT

```
              How to register
---------------
Please register!!

Send back the filled out registration
              form feed
                 .
You are then registered for support and update services. The registration
number is needed for these services.
```

You will find your registration number in the "About" menu of the program
or on the second installation disk.

Please send the registration card to:

Titan Computer
Mahndorfer Heerstr. 80 A

D-28307 Bremen
Germany

1.13 Registration card

First name:_____

Last name: _____

Street: _____

Country: _____

```
E-Mail Adresse: _____


BurnIt Serial number: _____


Bought from: _____


Your System Configuration:
--------------------------
Amiga-modell:_____  CPU: _____


SCSI-Host Typ:_____ Device Version: ____


FAST RAM: _____ MB,   Harddrive space: _____ GB


CD-Recorder/Rewriteable: _____


CD-Rom type: _____ Speed:_____


Comments:


_____


_____


_____


_____


_____
```

_____

_____

_____

1.14   First aid

                    First aid:

If you encounter problems using BurnIt, please consult this online help first.
Check out if you are using the function correctly. Use the table of contents,
it will offer useful help in trouble shooting. If this doesn´t help to locate
the problem make sure that no other program running in multitasking with BurnIt
is responsible for the misbehaviour.

Only contact the hotline if your sure that the problem is caused by BurnIt it-
self.

The
                hotline
                 can be used by registered users only.

Email is probably the best way to get in touch with us.

Where can I send my bugreports and wishes to?

If you want to report bugs or have wishes for upcoming versions feel free to
contact the authors. They will try to help you as fast as possible and are a
always happy when someone comes up with a good idea.

1.15   Windows

                        Main menu

                    Iso-Maker

                    Multisession
                                    Rename entry
                        PVD

_____

```
                         Convert Audio

                  Settings
                                          ReadCDD

                Make CD DAO

              Recover track

                Write CD

               Audio Studio
                                        Audio Player




                 Burn Info
                                      Writing state
                         Select date

               Select device
```

1.16 Main window

```
              Main Window
-----------

Double click the BurnIt icon to start BurnIt.
After a short moment a screen with Burnit main gui appears.


Symbols explained from top left to bottom right (clockwise):

1       Convert Audio - Convert audio files to other formats

2       Write/Iso Prefs - Preferences of BurnIt

3       Audio Player - Play an inserted CD

4       ReadCDD - read data, audio and mixed mode CDs

5
            ISO-Maker
             - Create ISO files to write on C

6
            Audio Studio
             - Audio processing with PPC-support

7
            MAKE CD DAO
             - Write CDs in DAO mode
```

```
8
                Slavage CD
                 - Recover overwritten tracks and more

9
                Make CD TAO
                 - Write CDs in TAO mode, e.g. multisession CDs
```

1.17   BurnIT Settings

```
                BurnIT's preferences window
--------------------------
Click on icon nr. 2. The preferences window of BurnIt, in which the pre-
ferences of the program and your CD writer are set, appears.

The preferences are split into groups. You can see the groups in the lister
on the left hand side of the window.

Click on the preferences group you wish to edit.


                CDR(OM)s

                    Read

                    Write

                    Play

                ISO-Image

                    TAO

                    DAO

                Operators

                 Process

                    Sound
```

1.18   Drive Settings

```
                Choose drive & CD writer
-----------------------
Click the "CDR(om)s" entry in the the list. A window appears:
```

```
"Write drive"
Click on the "?" on the left hand side of the SCSI address field and the
device requester will appear:

All devices are listed on the left side. Choose the device used for your
CD writer. If more than one drive is attached to the device BurnIt auto-
matically chooses the right one. If your CD writer is unknown (no native
driver is found) BurnIt suggests which driver to use.

IMPORTANT NOTE: Check table in
                Supported
                 section for
                correct driver emulation.

Click the "Use" gadget to confirm your choice.


Now click on the next "?" gadget to determine your read CD drive. You can
also select an ATAPI CD-ROM or select your CD writer again.

IMPORTANT NOTE: Please keep in mind that you cannot use the OTF (On The
                Fly) copy functions if read and write drive are the same.

Also, about 80% of the ATAPI CD-ROMs cannot read audio (CDDA) data.

If possible use a SCSI CD-ROM for best results and system performance.
```

1.19 Read settings

```
Read preferences
----------------
All preferences needed for reading are set here. The preferences are ex-
plained from top to bottom.




Read steps
 This determines the size of a read step. For the moment please use the
 default value of 32.
 ATTENTION: If using a low end system (e.g. 68030) please set the read
            steps to a value of about 20.
 The number of steps should be dividable through 2 (e.g. 32, 64, 128 or 256),
 because this guarantees maximum transfer rates with the Amiga filesystem.
 Experiences have shown that a lot of cpu time is left on fast systems using
 32 steps. When creating audio and XA cds with Yamaha cd writers keep in mind
 to use a maximum of 222 read steps since Yamaha writers only have 512k of
 intern cache.


Start read processs
 This launches an extra process for reading data from the Read CDD drive. That
 means there are two processes  running, one reading and one writing process.
 ATTENTION: The quality of the audio data can be pushed, because dropouts are
 avoided.
```

Cache size in kByte
 Determines the amount of ram used as cache (e.g. for on the fly copying).
 If you have a large amount of ram you will like this function. For example
 you can load a complete audio track into ram without having to use your hard
 disk. Of course that will lower the possibility of drop outs.

Ignore error
 If activated, BurnIt will ignore read errors according to the allowed amount
 of read errors defined in "Max. errors". As soon as the allowed amount is ex-
 ceeded, BurnIt will stop the read process.
 If set to 0 an infinite number of errors are allowed. You might need this
 setting with modern audio cds which contain audio and data tracks.
 This kind of cd might have more than 50000 errors, since they have several
 empty minutes between those two kinds of tracks.

 Usually "Ignore errors" should be turned on.

Max. Errors
 You can set the amount of errors ignored here. If set to "0" an infinite
 amount of errors are allowed.

 ATTENTION: This function is only active if "Ignore errors" is turned on.

Read speed data
 Here you can determine which speed is used to read data tracks. If set to
 maximum, data is read with the highest possible speed.

 IMPORTANT NOTE: If you encounter read errors, please try using lower read
                 speeds until the data is read without errors.
                 1x, 2x, 4x, 6x, 8x, 10x and 12x read speed are available.

Read speed audio
 Here you can determine which speed is used to read audio tracks.
 See "Read speed data"

Audio format
 In order to read and write CDs BurnIt supports a large number of formats.

 IMPORTANT NOTE: The RAW mode depends on the CD writer itself. For Yamaha
                 writers please set the format to "Intel" and for Philips
                 please use the "Motorola" format. Consult your CD writer
                 manual if you're not sure which format to use.

 The following formats are available:

 RAW format:
 - LSB (Intel) or MSB (Motorola)
 - 44.1 kHz sample rate
 - without header
 - 16 Bit

```
   – Stereo
   – Intel format (lsbmsb) or Motorola format (msblsb)

   WAVE format:
   – 44.1 kHz sample rate
   – 16 Bit
   – Stereo



   AIFF format:
   – 44.1 kHz sample rate
   – 16 Bit
   – Stereo

   MAUD format:
   – 44.1 kHz sample rate
   – 16 Bit
   – Stereo


Data blocksize
 This option determines with which blocksize normal  data  is read. For TAO
 mode it should be set to 2048 and for DAO mode 2352.

  IMPORTANT NOTE: The block size depends on the track type (data track=2048 Bytes
                  audio or XA track = 2352 Bytes).


XA block size
 This option determines with which blocksize XA data  is  read. You can choose
 2336 Bytes for TAO mode and 2352 Bytes for DAO mode.


Del aborted files
 Determines what happens to data which is not read completely, e.g. if the read
 process is aborted or read errors occur.


CUT 150
 Cuts a couple of seconds of an audio track.
 This might come in handy for read audio tracks in which the first 10 seconds of
 the next audio track are included.
```

1.20 Write Settings

```
Write preferences
-----------------

Write steps
 This determines the size of a read step. For the moment please use the default
 value of 32.
 IMPORTANT NOTE: If using a low end system(e.g. 68030) please set the read steps
                 to a value of about 20.
```

Launch write process
 If set to on, writing is executed as an extra process. A buffer minimalizes the
 risk of write errors due to the CD writer waiting for new data. Owner of modern
 writers such as Teac R55S or MMC devices must activate this function.

Cache size in kByte
 This determines the amount of ram used as cache (e.g. for on the fly copying).
 If you have a large amount of ram you will like this function.

Largest mem block
 If activated, BurnIt tries to reserve the largest free memory block and uses
 it as cache.

Emulate write
 If activated, BurnIt simulates the write process.
 IMPORTANT NOTE: Do this before actually writing a cd. This is the best way to
                 find out if errors will occur.

EmuWrite->Write
 If switched on, the CD is written immediately after a sucessful Emulate Write.
 IMPORTANT NOTE: Does not work with CD writers which need a caddy.

Eject
 You might need this function for some CD writers to reset them in order to be
 able to keep on working after an error occurs.
 IMPORTANT NOTE: Does not work with CD writers which need a caddy.

Write speed
 Determines the write speed.

1.21 Play settings

Play preferences

The preferences required for audio playback.

Output
 Select which audio output to use. You can choose between the audio.device
 of the Amiga OS or the AHI audio system, which trys to output a pseudo 14-bit
 signal using the Amiga sound chips or 16-bit signal using a sound card.

Directplay
 BurnIT plays the audio data directly from CD.
 IMPORTANT NOTE: This only works if the phones or audio output of the CD-ROM is
                 connected to an amplifier.

Preplay (Secs)
 You have the possiblity preplay all selected tracks in the ReadCDD window. You
 can set the length of the preplay here.

1.22   ISO-File settings

                   ISO-Image preferences

This is the preferences section of BurnIt for creating ISO files.

CD format
 If you wish to write an Amiga CD, please choose "Use ISO9660 Level 2 + RRIP".
 This format supports Amiga specific protection flags and comments.

 IMPORTANT NOTE: Of course you can use this format if you wish to use it on
                 other platforms. Amiga specific extensions are ignored.
 Further explanations can be found
                 CD-Format
                  .

Dir handling

Without overlaying directories = All paths above the selected are ignored.

 EXAMPLE: If SYS:Tools/Commodities is scanned, all files and sub directories
          are added without the overlaying directories
          (e.g. SYS:Tools/Commodities). SYS:Toools/Commodities/FKey is changed
          to FKey

Add last level = The directories are scanned using the path including
                          the selected directories.

 EXAMPLE: SYS:Tools/Commodities/FKey is changed to Commodities/FKey.

Add with complete path = The device is scanned using whole path

 EXAMPLE: SYS:Tools/Commodities/FKey is changed to Tools/Commodities/FKey

Warn DirLevel>8
 If switched on, you will be warned if the directory depth is higher than 8,
 since this is not allowed for the ISO9660 standard.

Device = Drawer
 If switched on, the name of devices are added to the directory tree as drawer.

  EXAMPLE: SYS:Tools/Commodities/FKey is changed to SYS/Tools/Commodities/FKey

Use file version
 According to the ISO9660 standard, the version number should follow the file-
 name separated through a semicolon.

```
 IMPORTANT NOTE: Most filesystems don´t use this option, but means no harm to
                 leave it activated.
```

Uni date
 If switched on, the date information of files and directories are set to the
 selected date.

CDTV
 If activated you MUST select the CDTV(TM) file using the "?" button. This is
 required to make sure that you can boot from the CD on a CDTV.

CD 32
 If activated you MUST select the CD32(TM) file using the "?" button. This is
 required to make sure that you can boot from the CD on a CD32.

Cook Data
 If activated an ISO file is converted to 2352 Bytes in order to be written in
 DAO mode.

 IMPORTANT NOTE: This routine needs a lot of cpu power, but is absolutely needed
                 to write a track created with the ISO-Maker in DAO mode.
                 If you own a PPC card it will speed this function up.

Cycle gadget
 Write -> File = BurnIT writes the ISO file to the chosen device.

 Write -> CDR = BurnIT writes the data directly to CDR without crea-
                        ting an ISO file first.
                        This is called writing On The Fly.

1.23 Tao settings

TAO preferences

All additional settings required for Track At Once writing are set here.

Set Pre-emphasis:
 Sets the preemphasis bit for digitally treated audio data. This has no effect
 on the audio data which gets written on CD. This option activates the deem-
 phasis during playback.
 Normally pop and rock music productions are not preemphasis treated, classical
 music productions sometimes are. If the recording is not preemphasis treated,
 setting the preemphasis bit is not recommended.

Set (c)-Bit:

```
 If activated, a (c) bit is set, which enables copying.
```

1.24 Dao settings

```
DAO preferences
---------------
Settings required for Disk At Once writing are set here.

IMPORTANT NOTE: This is only of interest for owners of BurnIt DAO.


Scan Subcode:
Scans the CD according to different methods:

  None      = Indexes are not searched

  Some      = The CD is scanned for index marks in 5 seconds steps.

  All       = The CD is completely scanned for index marks.

  Auto      = Indexes are automatically set.

  Auto read= All index marks are read while reading the CD.


Test ISRC
Checks the International Standard Recording Code of the audio tracks.

IMPORTANT NOTE: Depending on the drive, this may take quite a while.
```

1.25 Operator settings

```
Operator preferences
--------------------
The maximum amount of memory(in kByte) used by the audio operators is set
here. Default is 512 kb.
```

1.26 Process settings

```
Process preferences
-------------------
The process preferences are used to set the task priorities of BurnIt's read
and write process. In the Amiga's multitasking, the taskpri determines in which
sequence the individual tasks are run. The higher the taskpri, the more cpu
time the process gets. Be careful here. If you set the taskpri too high, the
system itself might stall or crash.

IMPORTANT NOTE: The process preferences are only of interest if either "Launch
                write process", "Launch read process" or both of the formally
                mentioned are activated.
```

1.27 Sound settings

```
Sound prefereces
----------------
Here you can adjust some sound effects which will report some of this actions.

 BurnIT ready{ub}    this jingle sounds if Burnit has successful recorded
                           a cd.

 Error{ub}           this should be explained itself.

 Fatal Error{ub}     this sound occurs when your Amiga is on fire :)

 Attention{ub}       no comments

 BurnIT startup this jingle is playing while you start recording.
```

1.28 ISO-maker

```
                    The ISO-Maker
-------------
 Please open the ISO-Maker (icon Nr. 5). A window will pop up. Of course it
won't have any entrys, since nothing has been chosen yet.
It's quite easy to create your own CDs using the ISO-Maker. After choosing
and processing the data a so-called ISO file is created. You can select this
file later in the "Burn CD" window to create a CD from it. In "Write/ISO Pre-
ferences" you can define what kind of ISO file is to be used.

 Click once on the "Add dir" gadget to read a directory or a partition.
Scanning directories shouldn't be a problem, but maybe scanning partitions
is something you haven't done yet, so we'll explain how to do it.

 Click once on the "Drive" gadget and AmigaOS will show all mounted drives.
Now choose a drive, for example "SYS:". This is your boot partition.

 IMPORTANT NOTE: Be careful not to choose a file, because a partition scan will
                 not work if a file has been chosen.

 After choosing a drive click once on the "OK" gadget to start the scan. De-
pending on how fast your Amiga is, this might take a couple of minutes. If
everything works right your window will look somewhat like a directory manager.


You can edit the entries with the following function buttons:

  Rename Entry = Changes the name of the selected file or directory
                 The old name of the file or directory is displayed in the
                 upper part of the window.

                    IMPORTANT NOTE: If a directory name and/or the number of
                                    plains are changed, BurnIt automatically adds
                                    missing layers(directories).
                                    This is done so that this directory is acces-
                                    sable on the finished CD.
```

```
   Del Entry      = The current item is deleted (NOT cut out!!!) If you use this
                     button on a directory the complete path is deleted.

                        IMPORTANT NOTE:If the sub directories are not deleted too, a
                                       directory scan must be done, in order to be
                                       sure that all directories are accessable. This
                                       can take quite a while if it is a large direc-
                                       tory tree.

   Add File       = Adds a file to the list. Of course you can also add
                        another partition.



   Add Tree       = The chosen directory is scanned recursivly and added to cur-
                     rent list. Double entrys may be renamed or skipped.

                        IMPORTANT NOTE:Select "device=directory" in the "Write/ISO
                                       preferences".
                                       BurnIt then adds new drives or partitions as
                                       directories to the list.

                                       The advantage of this procedure is that you
                                       don't have to rename files and/or directories
                                       which have the same name and are on more than
                                       one of the scanned partitions or drives. A
                                       good example of what this is all about is the
                                       "disk.info" which is on each drive and parti-
                                       tion.

   Edit PVD       = Allows you to change the Primary Volume Descriptor


   Preferences  = Allows you to change the "Write/ISO Preferences".


   Make ISO file= After selecting the file name an ISO file is created accord-
                     ing to the "Write/ISO Preferences" specifications.




The 'Project' menu

 New Project    = Deletes current list.

 Add Tree       = Add directory tree to list.

 Add File       = Add file to list.

 Make ISO file = Creates a ISO file according to the settings made in "Write/
                     ISO Preferences".

 Edit PVD       = Edit Primary Volume Descriptor.
```

```
 references     = Edit ISO Preferences.

 About          = Info about program and user

 Quit           = End BurnIt
```

The 'Edit' menu

```
 Cut            = The selected entry is cut.

 Copy           = The selected entry is copied.

 Insert         = The cut or copied entry is inserted at the current position.

 Rename         = Renames the selected entry.
```

Once you've finished editing the scanned files it's time to give the CD a name.
Click once on the "Edit PVD" gadget.
                    PVD Infos
                    Fill in a name and what else you wish. Click once on the close ←
                       gadget to exit
the window.
Now click once on the "Make ISO-File". A window with a cycle gadget will pop up
giving you the possibility to write a
                    Multisession
                     CD.
Multisession means that you can write the CD piece by piece.
You can backup your Workbench partition today and add a backup of another par-
tition next week.

IMPORTANT NOTE: There has to be at least one track on the CD to be able to
                choose the Multisession functions.

Set the cycle gagdet to "No Multisession" and confirm your choice by clicking
on the "OK" gadget. A file requester pops up asking for a name for the ISO file.
Call it "Backup1.iso" or something like that. Of course you can choose any name
you wish. Confirm your input with the "Return" key or the "OK" gadget. BurnIt
will now start to create a ISO image.

IMPORTANT NOTE: Depending on the amount of data and the processor speed, this
                might take a while.

IMPORTANT NOTE: In "on the fly" mode a small file (max. 20 MB) is created on
                your hard disk. Otherwise this mode is the same as the normal
                writing mode.

1.29 Macke die CD

Make CD TAO

Close the ISO-Maker window and click on gadget 9 of the BurnIt main window.
```

The "Make CD TAO" window pops up.

Set the "Type" cycle gadget to "Data file", click the "Add" gadget once and
select the the ISO file you've  made. After loading the file it will be dis-
played in the track window.

Repeat this procedure until you've loaded all ISO files you wish to write to
the CD.

Using the "Up", "Down", "Top" and "Bottom" gadgets you can sort the files as
you wish.
"Up" and "Down" move the selected entry by one step, "Top" and  "Bottom" move
the selected entry to the top or the bottom of the list.

Put a new CD-R in your CD writer and check if "Emu. write" in "Write/ISO pre-
ferences" is checkmarked. A so called "Dummy-Write" is performed before actually
writing the CD. This means that the data is not actually written to the CD, this
is a test run to see if the real writing process will work without errors.
Now click the "Write track" gadget to write the selected track to the CD and/or
to create a Multisession CD.


IMPORTANT NOTE: Audio tracks cannot be written in this mode, since most CD
                players would not able to recognize them.

Click the "Write CD" gadget if you wish to write audio CD. The "Write CD" func-
tion "finalizes" the CD. You cannot add further tracks to the CD.

As soon as you've clicked one of the write gadgets a window pops up displaying
information about the write process.

CAUTION: This is the last possibility to cancel the process, BurnIt starts wri-
         ting after clicking the "OK" gadget.


## 1.30  Create a blockbuster

Creating a audio CD with ReadCDD
--------------------------------


Reading audio data
 Please insert an audio CD (CDDA) in the CD-ROM drive you have determined as
 the ReadCDD in the preferences.

 Choose the audio format you wish to use in the audio preferences.

 IMPORTANT NOTE: If you wish to use to RAW format be sure to choose the correct
                 type of RAW format for your writer.

 Click on gadget nr. 4 in the BurnIt main window to open the ReadCDD window.


Read CDD-WINDOW

BurnIt will display the table of contents of the CD. By using the "Play" gadget
you can start the playback of the selected song.

If you click on "CD Pre Play" BurnIt only plays the first number of seconds you
determined in the preferences. The pre play time can be set up to a maximum of
30 seconds.


Start
 The slider is used to determine the start position for reading/playing the
 audio track.

Stop
 Same as "Start" except that it determines the stop position.

Length
 Determines the length of the audio track you wish to read/play.

Now select the audio tracks you wish to read/play. If you wish to choose more
than one audio track you can do this by pressing the "Shift" key. Then click
on "Read". You are asked to give the audio track a name.

IMPORTANT NOTE: In "Multiselect" mode the number of the audio track is inserted
                in front of the period.

EXAMPLE:         Sound.CDDA      is turned to    Sound05.CDDA,
                 SoundCDDA       is turned to    05SoundCDDA.

Creating a TOC of an audio CD
 After reading all audio tracks open the "Make CD" part of BurnIt (Gadget 9).
 Set type to "Audio" and click the "Add" gadget. Choose the the desired audio
 tracks(multiple select by keeping the "Shift" key pressed). The chosen audio
 tracks are displayed in the track window. Now you can sort the tracks by using
 the "Up", "Down", "Top" and "Bottom" bottons.

 IMPORTANT NOTE: The tracks are written to the CD in the same sequence as they
                 are displayed.


Writing audio data
 Now click the "Write CD" button and check if the current settings displayed in
 the "Burn Info" window suit your needs. If the settings are ok, click the
 "Write" button and BurnIt starts writing the CD.


## 1.31  Backup any type of CD

                    Copying a CD with ReadCDD
 ------------------------


Reading the CD data(data/XA data/audio data)
 Insert a CD you wish to scan in your ReadCDD drive. Choose your prefered format
 (also see Audio preferences/Save format for audio tracks and "XA mode" for XA  ↩
    tracks.
 Now open the ReadCDD part of BurnIt. The table of contents of the CD is dis-

played there. Now select the tracks you wish to read (multiple select by keep-
ing the "Shift" key pressed). Then click on "Read". You are asked to give the
audio track a name.

IMPORTANT NOTE: In "Multiselect" mode the number of the audio track is inserted
                in front of the period.

EXAMPLE:          Sound.CDDA        is turned to      Sound05.CDDA,
                  SoundCDDA         is turned to      05SoundCDDA.


Creating a TOC of a CD
 After reading all tracks open the "Make CD" part of BurnIt (Gadget 9). Set the
 track type and click the "Add" gadget. Choose the desired audio tracks (mul-
 tiple select by keeping the "Shift" key pressed). The chosen audio tracks are
 displayed in the track window. Now you can sort the tracks by using the "Up",
 "Down", "Top" and "Bottom" bottons.

IMPORTANT NOTE: The tracks are written to the CD in the same sequence as they
                are displayed.

CAUTION: The sequence must meet the
                ISO9660
                 guide line.


Writing data
 Now click the "Write CD" button and check if the current settings displayed
 in the "Burn Info" window suit your needs. If the settings are ok, click the
 "Write" button and BurnIt starts writing the CD.

 THAT'S IT !!!



## 1.32  When nothing else helps

Save CD
-------

This part of BurnIt is used to save CDR's if the write process was interrupted
(e.g. because of a system crash caused by a task running in multitasking with
BurnIt).

Besides that Save CD offers functions to examine empty or used CDR's.

IMPORTANT NOTE: Not all CD writers support these functions. Consult your CD
                writer manual if you're not sure about it.

Tracks
 All tracks are displayed in this list.

Disk Info
 Shows further informationon the current CDR, e.g. how many blocks have been
 written.

```
Track Info
 Shows information about the selected track.

Free Blocks
 Shows how many free blocks are left on the CDR.

TOC Type
 Use the cycle gadget to select the kind of CDR or track you wish to repair.

IMPORTANT NOTE: Be sure to use the correct format!


Recover Track (only Philips or compatible)
 Ends a track if the CD writer aborts the writing process or the computer
 crashes.

IMPORTANT NOTE: The CD writer must be resetted without taking the CD out of the
                drive, e.g. by resetting the computer.


Finalize Track
 Finalizes the last track. A new TOC is applied and the LEADOUT information is
 written. Further tracks can be added later on.

IMPORTANT NOTE: Be sure to set the correct TOC type!


Finalize Disk
 Finalizes the last track and the CDR. A new TOC is applied and the LEADOUT
 information is written.

IMPORTANT NOTE: Be sure to set the correct TOC type!

CAUTION: No further tracks can be added!


Finish Track (only Philips or compatible)
 Finishes the last track if it wasn't completely written (e.g. because of a
 system crash caused by a task running in multitasking with BurnIt).
```

1.33 Special CD-RW functions

```
CDReWriteable functions
-----------------------

Delete options
These functions can only be used with CDReWriteables. Don't bother to read
this if your writer doesn't support CDRWs.


The cycle gadget offers the following possabilities:

Delete disk
 All data is deleted from the CDRW and all blocks are set to zero.
```

```
 IMPORTANT NOTE: This normally takes as long as it took to write the CDRW.


Delete disk (fast)
 Some writers offer a faster method to delete a complete CDRW.


Delete track
 A window is opened in which all tracks of the CDRW are listed. You can select
 which tracks are to be deleted.
 The deleted areas can be rewritten with new data.


Unreserve Track
 If a CD is written in TAO mode, certain parts of the CD are reserved for the
 individual tracks. This funtion allows you to use these parts for other data.


Delete Track-Trail
 This operator deletes tracks between tracks.

 IMPORTANT NOTE: Only works if the tracks were written with Packet Writing.

 The deleted areas can be rewritten with new data(also only with Packet Writing)


Open last session
 The last session is opened in order to add further data.


Delete session
 The last session is deleted.



Start the respective action by clicking the "Delete!" button.



New CD
 Scans the CD again, e.g. after inserting a new CD.
```

1.34   What is cooking?

```
Current write settings
----------------------


This window displays the write settings and is the last possiblity to abort
the write process.



Write speed
 Displays the current write speed.

Dummy Write = on
 The write process is simulated. The CD is NOT written.


          = off
 The CD is written.

Finalize Session/Disk= Session
 Further tracks can be added (Multisessions).
```

```
                     = Disk
 The CD is finalized. No further tracks can be added!

Tracks
 The number of tracks to be written.

Track-At-Once
 The current write mode.

Write time
 The estimated time required to write the CD.

Length
 The total length of all tracks in minutes.
```

1.35 Write status

```
Write CDR
---------


This window displays the current write state.



Position
 The current position in the CD and the transfer rate in kBytes/sec.

Cache Usage
 Shows how much of the reserved cache is being used at the moment. In order to
 handle trouble which might occur during the writing process, keep the cache
 usage to at least 50%.

Track
 Displays the precise track position of the CD writer and how much time it will
 take to complete the track.

Info
 Displays BurnIts momentary position. Also displays which function caused an
 error.
 Be sure to note the error before contacting your friendly BurnIt hotline. :-)

Cancel
 Aborts the writing process. If you use this during the writing process the CDR
 will probably be unusable.
```

1.36 Choose device

```
Device selection
----------------


The device drivers found in your system are listed on the left hand side. If the
desired device driver is not listed, you can add it manually.
```

The selected devices are displayed on the right hand side. Choose your CD writer
as write device and your CD-ROM or your CD writer as read device. The "on the
fly" copy functions are only available if you have different drives for reading
and writing.

IMPORTANT NOTE: BurnIt offers driver emulations for unrecognized drives. Check
                appendix A.1 to find out which emultion is appropriate for your
                CD writer. If this fails to work, please contact our hotline.

1.37 window_audiostudio

```
Audio Studio
------------
```

This is a new part of BurnIt. From v2 of BurnIt on you have the possibility to
process audio data with some very powerful operators.

The available operators are displayed on the left hand side. Don't get confused
if more operators are displayed in your version of the Audio Studio since we
keep adding new powerful and exiting operators to the Audio Studio.

IMPORTANT NOTE: For explanation of new operators which were added after the
     manual was printed please consult the online guide which is
                included in every BurnIt distribution.

The loaded audio file (sample) is displayed on the lower right hand side(white
amplitude).

```
Load CDDA file:
```
 Click once on the "?" gadget in the Edit window. A file requester will pop up,
 ask you to choose an audio file to edit.

  IMPORTANT NOTE: If you attempt to load a file in RAW format BurnIt will ask you
                  if it should be handled as "Intel" or "Motorola" format. Check
                  your CD writer manual if you are not sure which format is
                  appropriate for your CD writer.

 After you choose an audio file BurnIt will load the file. This might take a
 while depending on the chosen preferences and the speed of your read drive.
 Two white amplitudes (left and right channel) indicates how much of the audio
 file has been read.


```
Functions in the editor window
------------------------------
```

```
Fader
```
 The fader is used to scroll through the display. This comes in handy if you
 zoom in and not all of the files fit onto the display.

+ / -

Using these buttons you can zoom in / zoom out in predefined steps.

Mark area
 Press the left mouse button in the amplitude window, drag it over the entire
 area you wish to mark, and then let the left mouse button go.

Zoom Range
 The marked area is zoomed.

Select all
 The whole file is selected.

Play
 The marked area is played using either the Amiga sound output or a sound card
 output. If no file is loaded, this function will open a file requester, asking
 which CDDA file to load.
 During reading the file is also played. (full duplex)

Audio processing operators

Paste
 A cut or copied area is pasted at the current position.

FIRBAND (Finity Impluse Response)
 This operator enables you "lay" a filter of a certain frequency onto
 audio material. This is a sort of full parametric EQ. Only the specified
 frequencies are cut or boosted. You can also set lower and upper limits.

FIR LOW
 High pass filter. Filters out bass frequencies and lets high frequencies pass.

FIR HIGH
 Low pass filter. Filters out the high freqencies, the opposite of the FIR LOW.

Fade OUT
 Fades out the music in the marked area. The fade out is done according to the
 settings made.

Fade IN-OUT
 Fades the in and out of the marked area according to the settings made

Fade IN
 Fades in the music in the marked area. The fade in is done according to the
 settings made.

```
Silence
 The marked area is filled with silence (digital 0). This comes in handy to
 keep the background noise down in parts which contain no audio signal.


Encode_MP3
 Converts the marked area into an AudioMPEG 3 (layer 3 MPEG) file.


Dynamic Range
 This function optimizes the frequencies and dynamic range of a track for out-
 put on a CD player. This is needed for playbacks from a cassette, because an
 analog cassette has a typical frequence response, depending on the cassette
 type (e.g. Fe). Since this response is nowhere near linear, specific fre-
 quencies must be boosted and cut. Also keep in mind that all analog mediums
 have a headroom, digital mediums don´t have one! So analog recordings normally
 have more dynamics in the peak section. When recording on analog multitrack
 machines, overloading the tape in reasonable sense may be wished to use the
 tape saturation as a so called "tape compression". But if you overload a digi-
 tal medium it sounds terrible (digital distortion). Thats why limiting and
 compressing the audio signal is a very important chapter of audio CD produc-
 tions. And, of course, you don´t want your CDs to have less output volume than
 other CDs.


De-Crackle
 This is very powerful operator, which, as the name says, decrackles recordings.
 Have you ever wanted to backup your old vinyl records? Well, here´s the tool.
 Better not use it on a complete track since this operator cuts the peaks.


Analyze-FFT 3D
 This operator displays the frequency response in a 3D manner according to the
 FFT method (Fast Fourier Transformation).


Analyze-FFT 2D
 This operator displays the frequency response in a 2D manner according to the
 FFT method.


Amplify
 Boosts the amplitude of the marked area.


Cut
 Cuts the marked area.
```

1.38 Primary Volume aso

```
Primary Volume Descriptor (PVD)
-------------------------------

The Primary Volume Descriptor contains all CD  specific  data  of  ISO9660
```

formatted CDs. The blocksize, the position of the TOC and other important
informations are saved in the PVD. The following fields can be filled out:

System ID   = Destinated system.

CD-Name   = Name of the CD.

                          CAUTION: This name is the one displayed on the Workbench ←
                             .
                          You can change the name in later sessions, as long as ←
                             the
                          CD was written in multisession mode.

Volume ID   = Information on type of data (e.g. animations).

PublisherID   = Information on the manufacturer of the CD (max. 128 cha-
                          racters). Normally the postal adress and telephone ←
                             number.

Data-PreparerID= Information on data compiler. Normally the postal adress
                          and telephone number.

Application ID = Information on progam used to create the CD(max. 128 cha-
                          racters).
                          IMPORTANT NOTE: Is always set to "BurnIT".

Copyright fileID= Filename and copyright specific contents.

Abstract file ID= Filename and information on the use of the CD.

Volume creation date   = Creation date of the CD.

Modification date   = Date of last modification.

Volume expiration date = "Expirement date" of the CD.

Volume effective date = Date of activation.

IMPORTANT NOTE!
The CD name is the identification of a CD, like the name of a harddrive or
floppy. The CD name and volume creation date are the only visable information
available after creating a CD. All other informations are also upon the CD but
have no effect under Amiga OS.

1.39 Write Tao

Make CD

Make CD is the "arranger" of BurnIt. You can choose which tracks you want to
write onto the CD and in which sequence they are to be written.

```
The buttons :
-------------
Add
 This button is used to add new tracks to the current arrangement. Multiple
 select is supported. Click on "OK" to confirm the action.

 IMPORTANT NOTE: By using drag'n'drop you can select the tracks of the CD in
                 the Read CDD drive. They are then immediately read from the
                 read CDD drive.


Del
 Deletes the current item from the list.

 ?
 After selecting a track you can choose another file with this button.

Up/Down/Top/Bottom
 The position of the current track can be changed with these buttons.
 IMPORTANT NOTE: This is very useful if you want to change the sequence of an
                 audio CD.

Data file/Audio/XA file & track
 Using the cycle gadget you can change the track type. This changes the block-
 size.

 IMPORTANT NOTE: If the size of the file turns out to be incompatible with the
                 blocksize, you will be warned.

 The AIFF/MAUD or WAVE formats are automatically identified if the filetype is
 set to audio. They are converted to the correct format LSB/MSB) on the fly.
 If none of the formats were identified, BurnIt assumes that the data is al-
 ready either in the LSB or MSB format (Depending on your CD writer).
 If you choose the track option, you can select tracks from the Read CDD drive.
 They are written to the CD on the fly later on.


Clear List
Deletes current list.


Write CD
 The Write CD function closes the CD after writing.
 CAUTION: It is NOT possible to add tracks to this CD anymore.


Write Track
 The Write track function does not finalize the CD after writing.

 IMPORTANT NOTE: Further tracks may be added. This will not work for audio cds,
 since CD players cannot handle Multisession audio cds.
```

1.40   What the hell is multisession?

Multisession mode

The options for creating multisession CDs are set in this window. You have to
click on "Make ISO file" to access this window.

No Multisession
 An ISO file is created which will be written as the first track on the CD. If
 you are using a new CDR you have to choose this option.

Ignore already existing files
 An ISO file is created which is placed as a further track on the CD.
 CAUTION: All files in previous ISO tracks are ignored and do not show up in the
          table of contents anymore.

 IMPORTANT NOTE: Previous tracks can be recovered by reading the track with
                 ReadCDD and writing the the data onto a new CDR.

"Overwrite" already existing files
 An ISO file is created which is placed as a further track on the CD. All files
 of the last ISO track are copied into the new table of contents.

 IMPORTANT NOTE: If a file exists in both the older and the more recent track,
                 then the file from the recent track is taken.

"Overwrite" with more recent date or other size
 An ISO file is created which is placed as a further track on the CD. All files
 of the last ISO track are copied into the new table of contents. If a file
 exists in both the older and the recent track, then the file with the latest
 date will be used.
 This can be either the file from the old track or the new track.

 IMPORTANT NOTE: This option is great for backups, because only old files are
                 "overwritten". The directory tree is updated after writing,
                 which means that only the new files are listed.

The directory tree is automatically renewed after writing the CD. This means
that only the data which is to be written is displayed in the list.

The last two functions open an additional window in which you can determine
which track is offended by the next session.

IMPORTANT NOTE: This function is quite useful, e.g. if files from the 4th ses-
                sion are not accessable on a seven session CD. Just choose the
                4th track and BurnIt analyses this track instead of the last one

The start block gadget is only important for Enhanced CD's written in DAO mode.
Otherwise the start block is determined automatically.

1.41   Create a DAO CD

```
                Make CD DAO
-----------
```
The functions explained in this chapter are only of importance if you own the
DAO version of BurnIt.

IMPORTANT NOTE: If you are a BurnIt TAO owner you can upgrade to the DAO version
               for 60.- German Marks. Contact the
               distribution
                address.

In this window you can write CDs in the Disc-At-Once mode. In DAO mode you are
in precise control of how the data is written onto the CD. You can define gaps,
index marks, the ISRC and you can set track and and catalog attributes.

IMPORTANT NOTE: This mode is needed to create professional master CDs according
               the the Red Book Standard
               The other advantage is that you can create CDs in one session,
               without a gap or with a self defined gap length between the
               tracks.

You can choose between two windows by switching the expert mode on or off in
the menu.

User mode   = For fast backups

Expert mode = Absolute control over CD writing

IMPORTANT NOTE: Since DAO CDs are written in one (writing) session, it is not
               possible to create multisession CDs. The DAO mode is especially
               good for making backups of multisession CDs (e.g. XA mode plus
               audio), such as those used for game consoles, because a DAO
               backup is actually a 1:1 copy of the original. This is not pos-
               sible in the TAO mode.

CAUTION: The copying of original CDs is only allowed for backup use, except
otherwise announced by the manufacturer.

Gadgets in User mode

Scan CD
 Scan CD scans the current CD in the Read CDD drive. You will be asked to enter
 filenames for the different track types on the CD, the current track type is
 displayed in the requester title.
 If the scan was sucessful the data structure is displayed in the listview.

Read CD
 Saves the whole CD as a file with the chosen name.

```
   IMPORTANT NOTE: Depending on your read CD-ROM and the CD itself this may take
                   up to 74 minutes.
```

Write CD
 After successfully saving the data you can start the writing process with
 "Write CD".

Write CD OTF
 With this function you can copy a CD without having to create an image file
 on your hard disk.

```
  IMPORTANT NOTE: You have to have a read AND a write drive in able to use this
                  function. BurnIt scans the CD, then an information window pops
                  up and asks if BurnIt should procede on writing the CD.
```

Load CUE
 Loads a CUE which has been saved with the Save CUE function.

Save CUE
 You can save the structure with the "Save CUE" function and then comfortably
 edit it in a text editor (e.g. GoldED, CED). Use "Load CUE" to reload the cue.

```
  IMPORTANT NOTE: By using an external editor you can easily create complex CD
                  structures (audio CDs with ISRC, catalog and loads of index
                  marks).
                   Check the example
                 CUE structures
                   .
```

Preferences
 Opens the DAO preferences window.

Gadgets in Expert mode
 Check chapter Gadgets in User mode for explanations to the gadets also
 accessible in User mode (Scan CD, Read data, Write CD, Write CD OTF, Load CUE,
 Save CUE and Delete CUE).

You can design the structure of your CD by using the following commands:

ADD CATALOG
This command is used to set the UPC/EAN catalog number. A CD can be 100% iden-
tified if a UPC/EAN catalog number are used.
This is normally used for commercial CD productions.

```
        Syntax:   CATALOG <UPC/EAN catalog number>
```

The catalog number must consist of 13 numbers coded according to the UPC/EAN
standard.

```
        Example:  CATALOG 1234567890123


IMPORTANT NOTE: This command can only be used one time per CUE list and must be
                in the first line.



ADD FILE
This command is used to choose file and the format and is only accessable if
Index 1 of the track is selected.

IMPORTANT NOTE: If handling audio data dummy bytes can be added. This trick is
                used to create a file length which can be divided though the
                blocksize.

        Syntax:   FILE <filename> <file type> <blocksize>

 File name:
  File path + file name

 File type:
  AUDIO – Audiofiles in 44.1kHz 16Bit quality
            – Intel    (depending on the CD writer)
            – Motorola (depending on the CD writer)
            – WAVE
            – AIFF
            – MAUD
 MODE1 – CDRom Mode1 data (Standard CD format)
 MODE2 – CDRom-XA Mode2 Data

 Blocksize:    depending on the file type

 AUDIO – 2352
 MODE1 – 2048 or 2352
 MODE2 – 2336 or 2352

        Examples: FILE WORK:Track1.iso  MODE1   2048
                  FILE WORK:Track1.wave AUDIO   2352

CAUTION: This command can only be used one time per CUE list and must be in the
         first line except if a CATALOG was defined.


ADD TRACK
This command places a track. The track number must begin with 1. Each following
track number must be increased by 1.  You can create up to 99 tracks.


        Syntax:   TRACK <Track number>

        Examples: TRACK 1
                  TRACK 2
                  TRACK 3
                  TRACK ....
                  TRACK ....
                  TRACK 47

IMPORTANT NOTE: The TRACK command always follows a FILE command or initiates an
```

```
            new track in a FILE.


ADD INDEX
This command is used to add index or sub-index marks in the TRACK command.

INDEX 0
Defines the start time of the pregap in a track.

INDEX 1
Defines the start time of the track, this index mark is used
in the TOC (Table Of Contents) as the start time.

        Syntax:   INDEX <Number> <MM:SS:FF>

 Number:
  All index marks must be between 0 and 99.

 Time:
  The MM:SS:FF format is used.

      MM : Minutes
      SS : Seconds
      FF : Frames (75 frames/second)

The first index mark in a FILE must be 00:00:00.


        Examples: INDEX 01 00:45:45
                  INDEX 02 02:34:74

IMPORTANT NOTE: The first index mark in a track must be 0 (with pregap) or
                1(without pregap), each following track number must be increased
                by 1.

IMPORTANT NOTE: Not all CD players support more than one Index in a song.


ADD PREGAP
This command is used to define a pregap (a pause in front of an track). This
command is internal and uses no data from the file.

IMPORTANT NOTE: Only one pregap can be defined per FILE and must be set directly
                after a FILE command.
                The size of the gap is defined in the MM:SS:FF format.


        Syntax  : PREGAP <MM:SS:FF>

        Example : PREGAP  00:02:00


The songs starts after a pregap of 2 seconds.
```

ADD POSTGAP
Defines a postgap (a pause after a track). This command is internal and doesn't
use data from a file.

IMPORTANT NOTE: Only one postgap can be defined per FILE and must be set at the
                end of a FILE command, behind the last

INDEX.
 The size of the gap is set in the MM:SS:FF format.

        Syntax : POSTGAP <MM:SS:FF>

        Example : POSTGAP 00:03:00

A pause of 3 seconds is inserted after the track.

ADD ISRC
This command is used to define the 'International Standard Recording Code' of
an audio track. A track can be 100% identified using the ISRC. This option is
normally used for commercial CD productions.

IMPORTANT NOTE: The ISRC is a 12 digit code, the first five characters are
                letters(A-Z), the last seven are numbers(0-9). The ISRC code
                format is:

Characters :

 1-2   Country ID (e.g. DE - Germany, US - United States of America)
 3-5   Owner ID
 6-7   Country code
 8-12   Serial number

        Syntax : ISRC <ISRC>

        Example : ISRC ABCDE1234567

CAUTION: This command can only be used one time per TRACK and must be placed
         directly after the TRACK command.

ADD FLAG
By using this command you can set the track attributes.

        Syntax: FLAGS <Attributes>...

        Attribute: DCP - digital copy permitted
                   4CH - four channel audio
                   PRE - preemphasis

        Examples: FLAGS DCP
                  FLAGS 4CH PRE

```
                FLAGS PRE 4CH
```

CAUTION: This command directly follows a TRACK command.

DELETE
This button is used to delete lines in the listview,
depending on the context.

CHANGE
You can change the filenames in the listview with this button.

1.42 QUICKY

Quick start

This chapter is a quick start into BurnIt. You should be familier with the
basic handling of BurnIt. It is also assumed that you have set the preferences
correctly.

copy of a CD
 Click on the DAO gadget. The BurnIt DAO window pops up with four gadgets on
 the lower left hand side (User mode). Click the "Scan CD" gadget. Fill out
 the requester which will pop up asking for a file name and a path to save the
 file.
 Click on "Read" and as soon as the read process is finished click on "Write CD"
 The CD will be written according to your preferences (Dummy/Real write).

Create audio CD
 Click the "ReadCDD" gadget and a window will appear showing the contents of the
 audio CD. Choose the desired tracks (multiselect through holding "Shift" key
 down). Click on "Read" and determine the save path and filename.
 After reading the CD click on "Make CD".
 Set the cycle gadget to "Audio data" and click on "Add". A file requester will
 appear. Choose the desired titles(multiselect through holding "Shift" key down)
 Use the "Up", "Down", "Top" and "Bottom" buttons to set the sequence as you
 wish.
 The titles on the CD are written in the same sequence as they are displayed in
 the list.
 Click on "Write CD". The CD will be written according to your preferences.

Backup of a hard disk
 Open the ISO-Maker. Click on "Add dir". Select the partition (be sure no files
 are selected) or directory you wish to backup. "Add file" can be used to add
 additional files.
 Click on "Change PVD", fill in a CD name in the "CD name" field, e.g. Work-
 benchbackup. Close the PVD window.
 Click on "Make ISO file" and select "No multisession" for new CDRs and "Multi-
 session" for CDRs which already contain tracks.

After the ISO file was created click on the "Make CD" gadget. Set the cycle
gadget to "Data file". Use the "Add" function to add the ISO file.
Click on "Write track" if you wish to add further tracks, otherwise click on
"Write CD" if you don't intend to add further tracks to the CD later on.

1.43   On the Fly recording

On The Fly functions

These functions should only be used by advanced users on systems with enough
cpu power. 68030 users can only use these functions if all drives are SCSI
based.
You also need to have separate read and write drives. On the fly (OTF) means
that data which is to be written on a new CDR is written without having to be
saved to hard disk first. Of course this saves a lot of time, but is rather
system dependent. If errors occur, the CDR ends up as a piece of junk. So please
make a dummy run before actually writing OTF to be sure everything will work
correctly.

ISO-File OTF
 This function writes ISO files OTF. You can use this function to backup your
 hard disk OTF for example.
 Set the "Write->File" cycle gadget in the "ISO image preferences" to
 "Write -> CDR".
 Click on the "ISO-Maker" gadget and open the PVD window. Fill in a CD name.
 Close the PVD window. Now select the the directories and files you wish to
 include on the CD by using the "Add dir" and "Add file" gadgets.
 Be sure not to select more than 640MB in order that the data will fit onto the
 CDR. To find out how big the loaded data is use the following formula:

         blocks x 2,048 = amount of data in Kilobytes

 The multiplier depends on the blocksize used (e.g. 2048, 2352). The TOC of the
 CD also needs a couple of MB.

 Once you've chosen the data you wish to write to CD click on "Make ISO file".
 You will be asked if you wish to write in multisession mode, choose which mode
 you wish to use.
 The "Write info" window will pop up giving you the opportunity to abort the
 write process. Click on "OK" to start the writing process.

Audio/Data OTF
 This mode allows OTF copying of audio, data or mixed mode CD's.
 Click on the ReadCDD gadget. Select the tracks you wish to copy (multiselect
 through holding "Shift" key down).
 Now click the "Make CD" gadget and choose the appropriate data type in the
 "Type" cycle gadget.
 Now go back to the ReadCDD window and click on one of the selected tracks with
 the shift key pressed. Keep the left mouse button pressed and drag the selected
 items to the Make CD window. Release the shift key and the left mouse button.
 If everything worked right, the dragged tracks are now in the Make CD list.
 Set the sequence of the tracks as you wish.
 Click on "Write CD" and the CD will be written according to the set preferences.

```
1:1 copy OTF
This function creates a 1:1 copy of a CD, no matter if it's a audio, data or
XA CD.
Click on the "Make CD DAO" gadget, then on "Scan CD" to show the contents of
the inserted CD. Click on "Write CD OTF" and the copy process is started.
```

```
Audio-MPEG OTF
 Allows OTF converting and writing of AudioMPEG files. This function requires
 the MPEGA.library (not included in the distribution), which can be found on
 the Aminet or on Aminet CD's and a REAL fast Amiga (68060+ or PPC only).
 Click on the "Make CD" gadget. Set type to "Audio" and select the desired
 MPEG files with the "Add" function.
 BurnIt offers the possibility to get an info on the selected MPEG file by
 double clicking the file with the left mouse button.
 Start the write process by clicking the "Write CD" gadget.
```

1.44 Supported CD-R and CD-Roms

```
Supported CD writers
--------------------
```

```
IMPORTANT NOTE: If BurnIt can't recognize your writer even though
it is listed below, please be sure that you have selected
the correct emulation.
```

```
JVC compatible CDRs
 JVC 2201*), XR-W2001, XR-W2010*), XR-W2012*), XR-W2022*)
 Pinnacle RCD 1000, RCD 5040*)

Mitsumi compatible CDRs
 Mitsumi CR-2201TS

MMC compatible CDRs
 Mitsumi CR2600TE*), Mitsumi CDR4800
 Philips CDD 3600, CDD 3610
 Ricoh 6200 R/W
 Traxdata 426
 Yamaha CDR 200C/T, CDR 400C/T, CRW 2260C/T, CRW 4260T, CRW 4416C/T

Philips CDD 2000 compatible CDRs
 Grundig CDR1001PW
 Hewlett Packard HP SureStore 4020i
 Kodak PCD225*)
 Mitsumi CDR 2401*)
 Philips CDD 521*), CDD 522*), CDD 2000
 Plasmon CDR4220*)

Philips CDD 2600 compatible CDRs
 Hewlett Packard HP SureStore 6020i, HP Surestore 8020,
 Philips CDD 2600
 Traxdata CDR 2600
```

Ricoh compatible CDRs
 Plextor PX-R24CS
 Ricoh RO-1420C, RS-1420C
 Turtle Beach 2040R*)

Plextor compatible CDRs
 Plextor 820

Sony compatible CDRs
 Smart & Friendly CDR1002*), CDR2004*), CDR2006*)
 Sony CDU920S, CDU924S, CDU926S, CDU928, CDU940S, Spressa 9211*),
 Spressa 9411*), Spressa 9611*)

TEAC compatible CDRs
 TEAC CD-R50s, CD-R55s, CD-R56s
 Traxdata 412

Yamaha CDR compatible CDRs
 DynaTek Systems CDM240*), CDM400*)
 Microboards PlayWrite 4000*)
 MicroNet Technology MasterCD Pro*)
 Plasmon CDR-4400*)
 Procom Technology PCDR-4x*)
 Smart & Friendly CDR1004*), CDR4000*)
 Yamaha CDE 100, CDR 100, CDE 102, CDR 102

*) This CD writer was not tested with BurnIt, but with a
   compatible model.

BurnIT was successfully tested with:

Computer
Amiga 1200 (68030/68060)
Amiga 2000 (68030/68060)
Amiga 3000 (68030)
Amiga 4000 (68030/68040/68060/PowerUp(r))
Draco

Controller
Blizzard 1230/2060 (Device 8.5 or higher required)
CyberSCSI MK II (Device 8.5 or higher required)
CyberPPC UW-SCSI
Oktagon 2008 (Device 6.15 or higher required)

CD-Rom
Pioneer CDR-U10X, CDR-U12X, CDR-124X
Plextor PX-12TS, PX-12CS, PX12-20
Sony 76S
Toshiba XM-3501B, XM-3701B, XM-4101B
Toshiba XM-5201B, XM-5301B, XM-5401B

CDR
Hewlett Packard HP 4020i, HP 8020
JVC 2201
Mitsumi 2401, 2800, 4800

```
Philips CDD2000, CDD2600, Phillips3610, 3600
Plextor 820
Sony CDU920S, CDU924S, CDU928
Teac 50s, 55s, 56s
Yamaha CDR100, CDR102, CDR200t, CDR400t, CRW4260t, CRW4416
```

1.45 CD-Formats

```
4CH
 Audio CDs have either 2 channels (stereo) or 4 channels (quadro).
 Theoretically only half of the time of a 2CH CD fits on a 4CH CD if this
 option is set.

CD standards
 There are several existing standards which determine the structure of a CD

Green Book - mode 1
 The Green Book standard defines the structure of a Compact Disc Interactive
 (CD-I). Images, data, full motion videos and audio tracks can be saved in
 this standard

Green Book - mode 2
 Same as mode 1 except that mode 2 has more data bytes and less error cor-
 rection bytes than mode1.

Orange Book - Part One
 This standard is for Compact Disc Magneto Optical(CD-MO). Data can be written,
 deleted and rewritten. This standard is not compatible to CDRs.

Orange Book - Part Two
 This standard is for Compact Disc Write Once, better known as CDR (CD Record-
 able). The discs can be written, but not deleted.

Red Book
 The Red Book standard is for audio CDs, better known as CDDA (Compact Disc
 Digital Audio).

White Book
 The White Book standard is for video CDs with video and audio data. Normally
 the data is MPEG-1 encoded.

Yellow Book - mode 1
 The Yellow Book standard is for data CDs.

Yellow Book - mode 2
 Same as mode 1, except that mode 2 has more dat bytes and less error correction
 bytes. This mode is used for Photo-CDs and CD-ROM XA.


There are also some special types of CDs:
-----------------------------------------
Enhanced CD / CD Extra (CD Plus)
 This CD standard includes audio and data tracks. The audio track is written in
 the first session, the data track in the second session. The data track is not
 available on a normal CD player.
```

Hybrid-CD
 A Hybrid CD contains programs and data for Macintosh and PC computers and is
 usable on both systems.

Mixed Mode CD
 Simuliar to Enhanced CD, also contains audio and data tracks. The difference
 is that the data track is written in the first session and the audio track is
 written in the second session.

CAUTION: Playing the data track on a normal CD player can cause damage to the
         loudspeakers and/or to the CD player. More recent CD players have a
         protection circuit.

Digital Copy Permitted
 If the DCP flag for an audio track is set, then it is legally allowed to make
 a digital copy of this track.

ISO9660
 A standard read-only filesystem. Used on many different computer systems
 (e.g. Amiga, Linux, Unix, Winxx, Mac, MS-DOSE)

ISO9660 Level 1
 The file name length is restricted to 8.3 (xxxxxxxx.xxx). Directory names are
 restricted to 8 characters without .xxx extension. The following characters
 are allowed: A-Z, 0-9, _. Protection bits are not supported. A directory depth
 higher than 8 is not allowed.

ISO9660 Level 1 + other characters
 The file name length is restricted to 8.3 (xxxxxxxx.xxx). Directory names are
 restricted to 8 characters without .xxx extension. All ASCII characters can be
 used. Protection bits are not supported. A directory depth higher than 8 is not
 allowed.

ISO9660 Level 2
 Filenames are restricted to a length of 30 characters. Actually it's limited to
 31 characters, but AmigaOS can only handle 30. Protection bits are not used.

ISO9660 Level 2 + RRIP
 The ISO9660 standard is extended by the "RockRidge Interchange Protocol". Fur-
 ther information on files and directories are saved.
 Filenames are restricted to a length of 30 characters. Actually it's limited
 to 31 characters, but AmigaOS can only handle 30.
 Supports protection bits.

Joliet File System
 Developed by Microsoft, based on ISO9660, this standard supports long file and
 directory names and is Winwuff95 compatible.

LeadIn
 The LeadIn of a track contains all important informations about the track, e.g.
 track type (audio, data), the table of contents (TOC) and the precise postion
 of the data on the CD.

LeadOut
 The LeadOut tells the CD player that it has reached the end of the track.

```
Pre-Emphasis
 Normally a CD player uses a filter to improve the audio quality of the data
 on the CD. This bit tells the CD player not to use this filter.

UPC/EAN standard

Two different standards for encoding bar codes.

Universal Product Code
UPC is split into UPC A and UPC E.

Both of them consist of a certain amout of characters and a
checksum. UPC A is used to encode 11 characters and a
checksum. The first character is for the system. The first 6
characters identify the manufacturer the following 5 are the
product code.

UPC E is simuliar, except that the zeros in front of the
product code are cut. UPC E is identified by a 0 as the
first character.

EXAMPLE: 07834100009  is turned to  0783419

It's allowed to add 2 or 5 characters as additional code.
These are followed by the checksum.

If the additional code is used, the checksum contists of the
11 characters and the additional characters. The checksum is
inserted between them.


European Article Number

The EAN standard is split into EAN 8 EAN 13.

EAN 8 consists of 7 characters, EAN 13 of 12 characters and
a checksum. The EAN contains the product number.

As by the UPC standard, 2 or 5 characters additional code
may be added.
```

1.46 CUE-Sheet examples

```
Examples for CUE lists in DAO mode
----------------------------------

Data CD
As usual for data CDs the CD consists of only one iso file and one track.

EXAMPLE:
File test:iso.file Mode1  2352
  Track 1
    Index 1  00:00:00
```

```
Audio CD
Example 1 shows how to make four audio tracks out of one audio file.

EXAMPLE 1:
File 1 Audio  2352
  Track 1
    Index 1  00:00:00
  Track 2
    Index 1  04:34:00
  Track 3
    Index 1  07:42:42
  Track 4
    Index 1  14:16:65


Example 2 is similiar, except that Index 0 and Index 1 are used to insert a
pause of 2 seconds in front of each title.

EXAMPLE 2:
File 1 Audio  2352
  Track 1
    Index 0  00:00:00
    Index 1  00:00:00
  Track 2
    Index 0  04:32:00
    Index 1  04:34:00
  Track 3
    Index 0  07:40:42
    Index 1  07:42:42
  Track 4
    Index 0  14:14:65
    Index 1  14:16:65


Example 3 again is very similiar, except that it shows a CD that can be used as
a master for CD productions according to the Red Book standard.
Every track has it's own ISRC code.
The whole CD is identified by the Catalog entry in the first line of the CUE
list.

EXAMPLE 3:
Catalog 0042285274523
File 49 Audio  2352
  Track 1
   ISRC USPR39507061
    Index 0  00:00:00
    Index 1  00:00:00
  Track 2
   ISRC USPR39507227
    Index 0  04:32:00
    Index 1  04:34:00
  Track 3
   ISRC USPR39609020
    Index 0  07:40:42
    Index 1  07:42:42
  Track 4
```

```
   ISRC USPR39609018
     Index 0  14:14:65
     Index 1  14:16:65
```

```
Mixed Mode CD
The example shows the structure of CD with a data track at the beginning and
ten following audio track in one file.

CAUTION: Playing the data track on a normal CD player can cause damage to the
         loudspeakers and/or to the CD player.

EXAMPLE:
File 1 Mode2  2352
  Track 1
    Index 1  00:00:00
File 2 Audio  2352
  Track 2
    Index 0  00:00:00
    Index 1  00:02:00
  Track 3
    Index 0  03:14:32
    Index 1  03:16:32
  Track 4
    Index 0  08:16:32
    Index 1  08:18:32
  Track 5
    Index 0  10:35:23
    Index 1  10:37:23
  Track 6
    Index 0  10:46:33
    Index 1  10:48:33
  Track 7
    Index 0  12:31:17
    Index 1  12:33:17
  Track 8
    Index 0  14:43:47
    Index 1  14:45:47
  Track 9
    Index 0  14:52:45
    Index 1  14:54:45
  Track 10
    Index 0  16:15:23
    Index 1  16:17:23
```

1.47   What is legal?

```
Copyright and other legal matters
---------------------------------
Copyright
BurnIT is (c)1996-1999 by DnS

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cations to this product at any time and without previous announcements.
```

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D-28816 Stuhr

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You use this program on your own risc.