EcoDisk

	COLLABORATORS			
	TITLE : EcoDisk			
ACTION	*NAME*	*DATE*	*SIGNATURE*	
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	REVISION HISTORY		
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Chapter 1

EcoDisk

1.1   EcoDisk.Guide summary

```
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     EcoDisk v1.1x : your file manager

          (c) 1993/1994 Thomas PIMMEL

  Current version : V1.13

  Changes -> 1.19

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1.2   Changes -> 1.19

```
Changes 1.19

  - Interrupt routines changed (VBL->CIA) for compatibility with
    Multiscan, Productivity, ...
```

  – Message added in language file (CIA resource allocation).

  – Players changed: CIA adaptation
    * ProTracker
    * EMSRaw
    * SoundMon

  – New menu item: "Players speed". Now you can adjust the speed
    at which a module is played. Negative numbers decrease speed
    whereas positive numbers increase it (from -4000 to 4000).
    Default value is 0. NTSC - PAL detection is automatically made
    (default value remain the same).

  – The player speed is saved in the preferences file. Old
    preferences files are compatible (new file has the same size).

Changes 1.18

  – Bug in audio channels allocation removed.

  – Bug in command "DEVICE" removed.

  – Code optimisation (branch).

Changes 1.17

  – DOS errors management changed (using PC0: with kickstart 2.0
    and 3.0).

1.15 & 1.16 internal test versions.

Changes 1.14

  – The Hotkey can be used to call the Ecodisk screen to front,
    even if the program is busy.

  – The music players now try to allocate audio channels before
    playing and send you a message if they can't (except MED
    routine which does it itself).

  – Minor bug fixed (re-opening screen).

  – Message added in language file (audio channels allocation).

  – Default preferences changed.

1.3 Presentation

PRESENTATION

  ECODISK is a file manager. It allows you to manipulate your files
(copy, rename, delete, ...) with the mouse more quickly than WorkBench
and Shell.

You can read a file and search a string, play modules...

There are 19 internal commands.

ECODISK allows you to run external programs (to view pictures and
anims or to edit texts, ...).

You can customize ECODISK (language, palette, screen format, ...)
and define gadgets and commands.

You can call it when you want with a Hotkey. When you have a
dormant ECODISK, it will use about 40kb only.

ECODISK was written in pure assembler. It's a small and fast
program which needs kickstart 2.0 or 3.0 and reqtools.library ((c) Nico
François). It's fully compatible with kickstart 2.0 and above. Its
pseudo-localization doesn't need kickstart 2.1 and allows you to
customize texts and menus.

 See Commands, Configuration,
Preferences

1.4   Copyright and distribution

COPYRIGHT AND DISTRIBUTION

ECODISK is copyright by Thomas PIMMEL (see Contact me)

SHAREWARE

  This program is shareware. If you use it, you should send me a
contribution of US$15, 20DM or 60FF, except jobless persons, students
or persons which haven't enough money. These persons can send me a card
or a beer.

DISTRIBUTION

  ECODISK can be freely distributed as long as the following
conditions are fulfilled :

  * all files must be included

      EcoLng (dir)
        English.lng   English.lng.info
        Français.lng   Français.lng.info
        LISEZMOI   LISEZMOI.info
        README   README.info
      Players (dir)
        EMSRaw   MED
        ProTracker   SoundMon
      EcoDisk   EcoDisk.config
      EcoDisk.config.info   EcoDisk.eng.guide
      EcoDisk.eng.guide.info   EcoDisk.frn.guide
      EcoDisk.frn.guide.info   EcoDisk.info

```
        EcoLng.info                           LISEZMOI
        LISEZMOI.info                         Players.info
        README                                README.info
```

  * the sales price mustn't be higher than the cost of an empty
disk plus costs for shipping.

OTHER PROGRAMS

  ECODISK needs reqtools.library and eventually powerpacker.library
(c) Nico François.

  These programs aren't part of ECODISK but it's better to
distribute them with it (ECODISK must have reqtools.library).

WARNING

  This software is provided "AS IS" without warranty of any kind,
either expressed or implied. I explicitly reject any responsibility for
any direct or indirect consequence from the use of ECODISK.

  reqtools.library isn't a part of Ecodisk and is copyright Nico
François.

1.5 Contact me

Contact me :

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  89.06.05.25

1.6 Installation

INSTALLATION

  To install Ecodisk, just copy its drawer on your harddisk.

  If you don't have reqtools.library (V38 or higher), copy these
libraries in your drawer LIBS:

  It's better to install Ecodisk with its script.

1.7 Ecodisk Execution

```
ECODISK EXECUTION

From WorkBench :

    Click on the EcoDisk icon.

From CLI :

    CD <Ecodisk drawer>
    RUN EcoDisk

PARAMETERS

From WorkBench :

  You can change tool types :

    NPUB    (doesn't display the "About..." requester
       when opening screen)

    HIDE    (does open a dormant Ecodisk)

From CLI :

  EcoDisk syntax (EcoDisk ?) :

  CONFIG/K,NPUB/S,HIDE/S

  NPUB and HIDE are the same as from WorkBench.

  CONFIG <configuration> : you run the program with a configuration
different from which is in the preferences.


  Example :

  run EcoDisk config ram:test.config hide npub
```

1.8 Introduction

```
Why ECODISK ?

  ECO like "Economique" (in french in the text) which means
"cheap".

  There are a lot of programs like ECODISK, but I don't like any
of them: too big, too old or too much bugs. I did want a short program
that I can modify and make resident.

  ECODISK has some useful functions: you can read a file (hexa or
ASCII) and search strings, you can run another program (multitask), you
can play several types of modules (like Deliplayer (c) Delirium
Softdesign).
```

See Contact me, Copyright and distribution.

1.9 EcoDisk screen

ECODISK SCREEN

  In the middle of your screen, you can see a gadget panel. These
gadgets allows you to execute commands. These commands can be either
ECODISK commands or external commands.

 see Commands

  On each side, there is a space for the drawers and files list. A
list can either be the source or the destination of a command.

 see Preferences

  Above these spaces, a string gadget allows you to type the path
you want to list (DH0:LIBS for example). This is not the only way to
select a path.

  Above the window (titlebar), you'll find informations: the name
of the volume you're looking at, the number of bytes available on the
volume, the size of the selected file(s), the number of files selected
and the total number of files in the list. You select a file by clicking
on its name in the list with the mouse.

 see Picture IFF <EcoDisk.pic>

  To use menus, move the pointer on the titlebar and then click the
right mouse button.

  Clicking with the right mouse button in a list will display a
pre defined drawers list. Clicking once again with the right mouse button
in this list will cancel the previous operation. You can select the
drawer you want to examine by clicking on it with the left mouse button.

 see Configuration

  By clicking once in a list, it will become the source and the
other the destination.

    If you don't understand, press <HELP>!

1.10 Ecodisk menu

ECODISK MENU

  You can use menu by moving pointer in the titlebar.

Here are the menu items and their functions.

PROJECT

    Hide   EcoDisk will become dormant. The program
        will close its screen, free buffers and
        wait for "L-Amiga E" (default hotkey) to
        wake up.
    Quit   Quit program.
    About... Displays author name and his address.

COMMANDES

    Module info Display module name and player used.
    Format   Allows you to format a volume in some
        modes.

PREFS

    Preferences menu (see Preferences)

TOOLS

    You can add your own commands in this menu header.
    (see Configuration)

1.11 Commands

COMMANDS

  General informations

  When using recursives commands (ex: copy, delete, ...), Ecodisk
will ask you for a filter.

  There are 4 possible syntaxes :

    string   only files with this name will be
        concerned.
    *   all files will be concerned (same as
        gadget "Don't filter").
    *string   only files with the suffix "string" will
        be concerned.
    string*   only files with the prefix "string" will
        be concerned.

  When a command needs 2 arguments, it's generally the source
selected drawers/files and the destination path.

  You can cancel a command by pressing <ESC>.

  EcoDisk internal commands.

There are 19 internal commands; quick summary:

ALL   Select all the source drawers/files.

CLEAR   Deselect all the source drawers/files.

COMMENT   Allows you to add a comment to the files (non
    recursive).

COPY   Copy source drawers/files to the destination
    (recursive command).

    see Copy

DELETE   Delete files (recursive command).

DSELECT   Deselect source files (ask you for a filter).

DEVICE   You can choose the path that will be examined in
    a requester among your volumes and assigns.

LINK   Allows you to create a DOS link on a file (on the
    same volume!).

    see Link

MAKEDIR   Creates a new drawer.

MOVE   Move (copy and then delete) the selected source
    files to the destination path (no filter).

PARENT   Read the parent drawer. If you're reading the
    root, displays the predefined drawers list.

PLAY   Plays a module.

    see Play

PROTECT   Allows you to change attributes of a file.

    see Protect

READ   Reads selected files (text or binary).

    see Read

RENAME   Renames a file or a drawer.

ROOT   Reads the root.

SEARCH   Allows you to search a file in a drawer or volume
    (recursive command).

    see Search

DSELECT   Select source files (ask you for a filter).

```
SIZE    Computes the size of the files of a drawer.

    see Size
```

1.12 Copy

COPY

  "Copy" allows you to copy a file from source to destination. The
copied file keeps all source file attributes (comment, date, attributes,
...) with the following restrictions:

  The A (archive) flag can be removed (see Preferences).

  If the file exists yet, it will keep the destination attributes
  (SP-RWED).

  If source file doesn't have a comment, the file will keep
  destination comment.

  Copy speed is increased by increasing number of buffers.
  (see Preferences)

  You can cancel copy by pressing <ESC>. Ecodisk tests keyboard
  input after it has written all its buffers. For example, if you
  have 10 buffers, the copy will stop after 1024*10 bytes copied.

1.13 Link

LINK

  "Link" allows to create a link on a file. The file datas will
  be once on your disk, but you'll have two pointers on these
  datas.

  The pointers can have different names but their attributes (date
  and comment) are the same.

  "Clean" links are made on the same volume.

  For example, a link can be used to have all documentation files
  in a drawer and in their program drawer at the same time without
  using a lot of place.

  You can have several links on a file (as far as I know).

1.14 Play

PLAY

  "Play" allows you to play ProTracker modules.

  This command makes a list of the files you want to play and then
  plays the first. You can work with Ecodisk at the same time.

  To play next module, press "N" or "]". To play previous module,
  press "P" or "[". To stop playing, press "<ESC>" or "*".

  When you "READ" a file, "<ESC>", "N" and "P" are used to search
  occurences of a string, so use "[", "]" and "*".

  "Play" use external players that I write especially. Don't forget
  to give the path in the configuration file.

There are 4 players :

    MED, ProTracker, EMS, Sound-Monitor.

  because I only have 4 modules types!

  If you want a new player, please send me:

  A song (a good one!) of this player to make tests. Please tell me
  if I can diffuse the song or not.

  Eventually :

  The name of the player that play the song.

  The player source file (ASM only).

  If I like your song, I'll certainly write the player quickly.

Protracker / Noisetracker

  These two Soundtracker clones are the most well-known in spite of
  their bugs.

  Some musicians insist upon a specific routine for each player.
  Personally, I don't care about it: my Protracker player can play
  Noise modules.

VBL/CIA

  Now EcoDisk can play VBL and CIA modules (1.19).

"Make it yourself"

  If you wrote a player (whoua!), please send it to me with a
  module (to test it). I'll include it in the EcoDisk package.
  Don't forget your complete address.

```
(see the file "EDiskPlayer.doc")
```

1.15   Protect

PROTECT

"Protect" allows you to modify file attributes (recursive command).

The command opens a requester in which you can choose the flags you want to change.

There are 14 gadgets (2 per flag, S P A R W E D).

You can add a flag to a file (+) or remove one (-).

Press <HELP> to have the keys.

Example :

+ S _ _ _ _ _ _

- _ _ _ _ W E D

This will add the S flag to all the files and remove the W, E and D flags. The P, A and R flags aren't modified.

1.16   Read

READ

"Read" displays text and binary files in the Ecodisk screen.

In text mode, you can search a string by pressing "S" or "F" and move to another occurence by pressing "N" (next) and "P" (previous). Press <HELP> to have the keys.

If you have powerpacker.library in the libs: drawer, "Read" decompress your file before displaying it (if it is a crunched file).

1.17   Search

SEARCH

"Search" allows you to find files with a filter.

When Ecodisk find a corresponding file, you can:

Stop : Eco displays the drawer and select all the corresponding files.

Next : continue search.

Cancel : cancel search.

1.18 Size

SIZE

SIZE computes the size of the files of a drawer (recursive command).

There are two size computing modes :

– real size (on the disk)

– displayed size (data size)

The real size of a 124 bytes long file is 1024 bytes (on HD or FD).

Warning : the real size doesn't include cache (DIRCACHE).

see Preferences

1.19 Configuration

CONFIGURATION FILE

The configuration file allows you to :

Define a drawer list that will be displayed when you press the right mouse button.

see Devices section

and to :

Create, move or modify a command gadget.

Create, move or modify a menu item in the TOOLS menu header.

Create or modify a gadget hotkey.

see Buttons section

and to :

  Select the players that will be loaded and their path.

  see Players section

and finally to :

  Define auto-commands that will be used when you double-click on
  a file.

  see Auto-commands section

A configuration file is a text file that you can edit with ED (for
example). It can be wherever you want on your disk. The .config extension
is recommended. EcoDisk needs a configuration file. The default file is
EcoDisk.config .

It includes several sections with the header #.

  IMPORTANT!

The string #ENDC must end a configuration file.

  see File example

1.20   Devices section

DEVICES SECTION (#DEVS)

  This section give the drawers that will be displayed when you
  press the right mouse button.

  Example :

```
#DEVS
DF0:
DF1:
DH0:
RAD:
WBench:
Empty:
LIBS:Classes
DH0:PICS/Fractals

/* if end of the config file */

#ENDC
```


1.21   Buttons section

BUTTONS SECTION (#BUTS)

   After the #BUTS header, you give the command gadgets list.

   If the screen isn't high enough to display a gadget, Ecodisk
   creates a menu item in the TOOLS menu header.

   The char & (alone on a line) force EcoDisk to put the commands
   that follow in the TOOLS menu header.

   The char _ allows you to define a hotkey (gadget only) used in
   combination with R-Amiga.

   An empty line separate the gadgets or insert a BARLABEL in the
   menu.

   A gadget is maximum 7 chars wide.

   The menu item name width isn't limited.

   EcoDisk recognise " " (quotes).

Line syntax :

   Name Command [arguments]

   Internal commands don't have arguments (@ designate internal
   commands).

Example :

#BUTS
Move @Move
Delete @delete
View Viewtek >NIL: %rf
&
Edit ed > >NIL: %sf
Run %sf %as"Argument"

/*if eof*/

#ENDC

Available commands are described in Commands.

In your command line, you can include EcoDisk arguments with %s symbols :

   %as["String"] (Ask String)

      %as is replaced by the string you type in a string
      requester. "String" is the requester title.

```
%sm   (Source Multiple)

   %sm is replaced by the selected files and drawers names.
   The command called must accept multiple arguments.

%sf   (Source File)

   %sf is replaced by the last selected file (only file).

%sd   (Source Drawer)

   Same as %sf for a drawer.

%sp   (Source Path)

   %sp is replaced by the source path.

%dp   (Destination Path)

   %sp is replaced by the destination path.

%ac   (Auto-Command)

   %ac is replaced by the name of the "double-clicked" file
   when using an auto-command (to be used in that case
   only).
   see Auto-Commands.


%rf   (Collect Files Recursively)


   %rf is a more complex command call. The program called
   with %rf is runned for each selected file (as an internal
   command). In that case, the called command will be
   sent to the output file/window and EcoDisk will wait till
   you press <RETURN> to close the output stream.
```

In addition, you have :

```
  The ">" char alone indicates that the WorkBench window must pop
  to front when executing the command. When you use a command with
  %rf, EcoDisk comes back automatically to front.

  The > char with an Amiga-OS output (NIL:, PRT:, CON:, ...) allows
  you to redirect the command output.

  You can define the default output in the preferences.
```

1.22 Players section

```
PLAYERS SECTION (#PLAY)

  You give the players that EcoDisk have to load in memory when you
```

```
use the PLAY command.

Example :

#PLAY
dh1:music/players/EMS
dh1:music/players/SoundMon
dh1:music/players/MED
dh1:music/players/Protracker

!Players mustn't be crunched!
!Give only EcoDisk players in this section!
```

1.23 Auto-Commands

```
AUTO-COMMANDS SECTION (#AUTO)

When you double-click on a file, EcoDisk will verify in the #AUTO
section if it has to execute a command (auto-command). For
example, when EcoDisk meets a JPEG picture, it displays it (using
ViewTek for example).

Line syntax :

"Identification string" Command

Example :

#AUTO
FORM????ILBM ViewTek/VT >nil: %ac
mod.* @PLAY
$000003F3$ > %ac

The identification strings are compared with the first bytes of
the file. If the string and the bytes are matching, EcoDisk
executes the auto-command.

The commands are the same as which in the #BUTS section. Only
@PLAY and @READ can be called as auto-commands.

%rf, %sm, %sf and %sd specifications are useless even if they're
active.

The "double-clicked" file name is in %ac.

The identification string can be composed of :

- "?" which replace any byte (character)

- hexa numbers between $ symbols.

If there's a "*" in the identification string, EcoDisk compares
it with the file name (and not with the first bytes of this
file).
```

By default, EcoDisk uses "READ".

1.24 Configuration file example

```
CONFIGURATION FILE EXAMPLE

#DEVS
DH0:
DH1:
DH2:
DF0:
DF1:
RAM:
RAD:
S:
A:
B:
C:
LIBS:
DH0:UTIL
DH1:UTIL
DH1:ASM/AUTODOC
DH1:MUSIC/PROTRACKER/MODULES
INCLUDE:

#BUTS
R_oot @Root
De_vice @Device
_Parent @Parent

_All @All
Cl_ear @Clear
Se_lect @Select
DSelect @Deselect

_Copy @Copy
_Rename @Rename
Move @Move
_Delete @Delete
Ma_keDir @Makedir
Link @Link

Co_mment @Comment
Pro_tect @Protect

_Size @Size
Searc_h @Search

Read @Read
Play @Play
Edit c:ed > >nil: %rf
&
ViewGIF dh1:Pics/ZGIF020 >nil: %rf
ViewAll dh1:Pics/viewtek/vt >nil: %rf
Run > %sf
```

```
"LHArc Add" lharc > -r a %as"Path and archive name" %sm
"LHArc Auto-Extract" lharc > x %rf %sp
"LHArc Extract" lharc > x %rf %as"Path"

"Search string" search >ram:searchresult %rf %as"String to search"
Guides >nil: > multiview %sm

#PLAY
Players:ProTracker
Players:SoundMon
Players:EMSRaw
Players:MED

#AUTO
$000003F3$ > %ac
FORM????ILBM dh1:pics/viewtek/vt %ac
??????JFIF dh1:pics/viewtek/vt %ac
GIF dh1:pics/zgif020 >nil: %ac
FORM????ANIM dh1:pics/viewtek/vt %ac
mod.* @Play
sm.* @Play
MMD0 @Play
$0125$ @Play
*.lha lharc > l %ac
*.lzh lharc > l %ac
#ENDC
```

1.25 Preferences

```
PREFERENCES

  Preferences can be found in the PREFS menu header.

  Preferences are saved in ENVARC: and ENV: with the name
  EcoDisk.prefs .


Language    To load a new language file (.lng).
      Default : EcoLng/english.lng

Config      To load a new configuration file.
      Default : EcoDisk.config

Screen      To change screen mode.
      Default : Hi-res

Palette     To change palette (4 colors)

Font        To change font size.
      (8 and 9 in ROM and 11 on disk)
      Default : 8

Default output    To define default output for external commands.
      Default : CON:////EcoDisk
```

Line format   To define the line format of the files.
      Attributes are S A D C N (Size, Attributes, Date,
      Comment, Name).
      The name is in first position, but you can put it
      once again somewhere else. You can put the other
      attributes where you want. You can put as many
      attributes as you want.
      Default : S A D C.

Buffers   To copy a file, EcoDisk dynamically allocates
      memory. 160 buffers (1024 bytes each) can be
      allocated. 160 is an optimal value but 30 or 40
      is good enough.
      Default : 50.

Hotkey   You can call the EcoDisk screen to front by
      pressing L-Amiga and another key that you can
      define here.
      This key can also wake up EcoDisk when it is
      dormant (with PROJECT/Hide).
      Default : "E".

Players volume   To adjust play volume.
      Default : 64.

Players speed   To adjust play speed (1.19).
      Default : 0.

Flags :

  Delete warn   Request before deleting.

  Link warn   Request before creating a link.

  Scroll   Show the file being processed while the
        command.

  Real size   See Size

  Display DOS errors   The DOS errors :

        ERROR_DISK_NOT_VALIDATED
        ERROR_DISK_WRITE_PROTECTED
        ERROR_DEVICE_NOT_MOUNTED
        ERROR_DISK_FULL
        ERROR_NOT_A_DOS_DISK
        ERROR_NO_DISK

        Displays a requester with the DOS error
        that occured. It's useless but EcoDisk
        can do it.

  Load players   EcoDisk loads the players only when it
        needs them. With this flag, it loads them
        at the beginning.

```
   Del A attribute   EcoDisk will remove the A flag when you
         copy a file. Useful if you make backups.

   Hide warn   EcoDisk opens a requester with the hotkey
         to call it back just before you hide it.

Sort

   Alphabetical    Alphabetical sort for the file list.

   By size     Files are sorted by size, and then in
         alphabetical order.

   By date     Files are sorted by date, and then in
         alphabetical order.

Date  (date format)

   MM-DD-YY    Month/Day/Year

   DD-MM-YY    Day/Month/Year


Save      Save prefs in ENV: and ENVARC:

Use     Save prefs in ENV:

Reload      Reload prefs from ENV:
```

1.26   AREXX

```
AREXX

   EcoDisk has an AREXX port called "EDiskIOPort"

   EcoDisk knows 3 commands : QUIT, SHOW, HIDE.

     QUIT :  Quit EcoDisk

     SHOW :  Call EcoDisk screen to front or wake up.

     HIDE :  Hide EcoDisk

   You can execute these commands with M2I or CallIO.
```

1.27   PowerPacker & Reqtools

```
POWERPACKER ET REQTOOLS

   EcoDisk needs reqtools.library and uses powerpacker.library.
```

These libraries are (c) Nico François.

Reqtools is a fantastic library that is very useful for a
programmer :

  Requesters, string requesters, file requesters, screen
  and palette requester are made with the reqtools.library.

The powerpacker.library allows you to load and read files that
are compressed with PowerPacker.

You can compress :

  Config files
  Languages
  Preferences

Don't compress players!

Powerpacker.library is also used by "READ".

1.28 Kickstarts

KICKSTART

  Under Kickstart 3.0 (V39 and above), Ecodisk uses NEWLOOK menus.

  The vertical scroller gadgets have arrows.

  You can use Ecodisk with the new ECS and AGA monitors.

1960 monitors : Ecodisk opens an OVERSCAN_TEXT screen, don't forget to
adjust it.

1.29 Credits

CREDITS

  Thanks to me for spending time to write this guide because it's
laborious.

  Conception, programmation
  and french texts   Thomas PIMMEL

  English translation   Jean-Marc Boursot

  Tests and suggestions   Jean-Marc Boursot and
       Brice Allenbrand

  Official Ringard' Production pub

```
        Le Klapperstein


Thanks (and admiration) to

   Nico François (Reqtools)
   Thomas Krehbiel (Viewtek)

Special thought for

   My Amiga seller
   Nenbourg    (hi!)

Ad

   Play Impérial, the best Tai-pei ever written.



          Thomas.
```