

**082a7b10-0**

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**COLLABORATORS**

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---



```

#####
~10.~Thanks.~::~::~::~
#####
#####
~11.~Copyright.~::~::~:
# ##### ###
#####   ##   #
#####   ###
###     #
#       #
~12.~History.~::~::::

```

## 1.2 1. Introduction

xFX is a program that has some features of an old and very usable utility called DMS. Using some emulators (ShapeShifter, AmiMSX, fMSX, Speculator, etc.), the Author found many disk problems that have been solved with this utility. In other words, xFX is a tool to create disk images (packed or unpacked) from whatever storage medium in order to transfer (modem, E-Mail, etc.) or simply to archive. A little problem is the manipulation of Macintosh HD floppies. xFX is able to use many device drivers that are compatible with trackdisk.device (e.g. mfm.device, scsi.device, fmsdisk.device, ramdrive.device, etc.). This feature is usable to read and write file-disks, and so, to obtain security-only disk copies. This performance is very useful to copy the Mac HD disks, because xFX is much faster than ShapeShifter (with most probability the very slow disk copy operation is a problem of MacOS and not of the wonderful ShapeShifter). All file-disks generated with xFX (included packed files) do not make usage of a proprietary format and thus they can be used with other software without any limit. This feature allows to unpack a file-disk with any utility that fully supports XPK format.

## 1.3 2. System requirements

- CPU 68000 or better.
- Kickstart 2.0 (V37) or better.
- XPK libraries (optional).
- rexxsyslib.library (optional).
- reqtools.library (optional).
- Any storage driver, like: floppy driver (3.5" DD, 3.5" HD, 5.25"), hard disk, ZIP, JAZ, floptical, CD-ROM, LS-120, etc.
- Correspondent device drivers.

If do you want use the graphic user interface (GuiX), you need also:

---

- Kickstart 3.0 (V39) or better.
- Magic User Interface (MUI) V 3.3 or better.
- asl.library

xFX allocates dynamically all resources but only when needed. If the file-disk compression is not used, the XPK libraries aren't used (and not opened). If rexsyslib.library is not installed in your Amiga, the ARexx port is not usable when xFX is running from Workbench.

## 1.4 3. Installation

To install xFX, you can copy manually all files on your hard disk, otherwise you can use the included installer script.

## 1.5 4. Use of xFX

At the present time, xFX can be invoked from shell or ↔ Workbench (via tooltypes, drag-&-drop, and GuiX). A built-in ARexx port can be used to control xFX from other programs.

~4.1~Shell~use.~~~~~

~4.2~Workbench~use.~~~~~

~4.3~Use~of~ARexx~port.~

~4.4~Hints.~~~~~

~4.5~Error~messages.~~~~~

## 1.6 4.1 Shell use

Using xFX from the shell is the easiest way (at this time) to let ↔ it show all its power. All commands available from a shell, are also available through ARexx port with identical syntax.

Synopsis:

```
xFX COMMAND/A, DEVICE/A, TO/K, FILE, DISKBUF/K, PACK/K, PASSWD/K,
  START/K/N, END/K/N, MOUNTLIST/K, ADDICON/S, VERIFY/S, FORCEEXT/S
  NOEJECT/S, VERBOSE/S, QUIET/S
```

You can call the extended-help to have a small command list, this is the output:

```
xFX V1.1 - © 1997, Alessandro Pedretti

COMMAND = COPY, READ, WRITE, CHECK, INFO
DEVICE  = Device name (AmigaDOS or DEVICE.device:UNIT)
TO      = 2nd device for copy
FILE    = Input/output file for READ/WRITE commands
DISKBUF = Disk buffer path for COPY
PACK    = Xpk compression for WRITE (SUBLIB.METHOD)
PASSWD  = Password for Xpk en/decoding
START   = Start cylinder (default 0)
END     = End cylinder (default last)
MOUNTLIST = Creates a mountlist with fmsdisk.device (READ)
ADDICON = Adds an icon to disk image (READ)
VERIFY  = Verifies cylinders during write operations
FORCEEXT = Always adds the .xfx extension
NOEJECT = Inhibits auto disk eject
VERBOSE = Explains all operations
QUIET   = Suppresses messages
```

\* COMMAND: select the xFX run mode.

```
CHECK = surface disk error checker.
READ  = reads a disk and save it into a file (you must specify it).
WRITE = Writes a file-disk to disk.
COPY  = Copies a disk.
INFO  = Displays disk geometry.
```

\* DEVICE: device name to execute the selected command.

You can use the AmigaDOS device name or directly the device driver with unit number. In this case, the correct syntax is: DEVICE\_DRIVER:UNIT. The extension ".device" is optional. You can use with identical result: DF0:, trackdisk.device:0, trackdisk:0

\* TO: second device name.

This option is usable only with two-devices disk copy. In all other cases, this option is ignored. The correct syntax is identical to DEVICE option.

\* FILE: file name to read or write.

This option is only usable with READ and WRITE commands.

\* DISKBUF: temporary buffer path.

When the free memory is too little, this option allows to execute a single device copy. All temporary data are stored in a file buffer instead of memory.

\* PACK: name of XPK packing and/or encrypting method.

This option is only usable with READ command. The correct syntax is:

---



## SUBLIBRARY.METHOD

SUBLIBRARY is a four-character algorithm name (e.g. NUKE, MASH, FAST, GZIP, etc) and METHOD is a number (from 0 to 100, default 100) that indicates the method efficiency. Examples:

```
xFX READ 0 Ram:MyFileDisk PACK MASH    -> algorithm MASH efficiency 100%
xFX READ 0 Ram:MyFileDisk PACK FAST.50 -> algorithm FAST efficiency 50%
```

\* PASSWD: XPK sublibrary password.

During READ or WRITE operations, this parameter allows to specify the en/decrypting password. Not all XPK sublibraries support this password.

\* START: starting cylinder.

It's usable with READ and WRITE commands (default 0).

\* END: ending cylinder.

It's usable with READ and WRITE commands. Default is the last disk cylinder (e.g. for a 3.5" floppy disk driver, default is cylinder 79).

\* MOUNTLIST: mountlist file name.

At the end of file-disk writing operation (READ command), xFX generates a mountlist with source device geometry. Instead of the original device name, the mountlist contains fmsdisk.device. In this way the created file-disk can be simply mounted under AmigaDOS. The file-disk can't be packed. This option can't be used if the source device is specified like a device driver (e.g. scsi.device:0) and not like a AmigaDOS device (e.g. DH0:), this because the same device driver can control more partitions.

\* ADDICON:

This switch adds an icon with tooltypes to the file-disk generated with READ command.

\* VERIFY:

This switch turns on the verify option during write to disk operations (WRITE and COPY commands).

\* FORCEEXT:

This switch forces xFX to add the ".xfx" extension to file name.

\* NOEJECT:

This option inhibits the automatic disk ejection during copy operation. This function is performed by trackdisk.device TD\_EJECT command and thus works only with devices that support this command.

\* VERBOSE:

This option displays more informations that explain all operations.

---

\* QUIET:

This switch suppresses all messages (except error messages).

~4.1.1~Examples~

## 1.7 4.1.1 Examples

> xFX info scsi.device:0  
displays the hard-disk geometry.

> xFX check mfm:1  
executes a surface verifying of floppy disk in drive 1 using mfm.device.  
This disk must be in Ms-Dos-like format (e.g Mac, MSX, ecc).

> xFX read DF0: Ram:MyDisk  
creates "MyDisk" file-disk in Ram: with the disk image in Amiga format  
(trackdisk.device) not packed/encrypted. The source disk is inserted  
into the drive 0.

> xFX read DF0: Ram:MyDisk MOUNTLIST Ram:FF0  
As upper, plus mountlist generation.

> xFX read PS2: Ram:MyDisk PACK MASH START 20 ADDICON  
creates a file-disk called "MyDisk" in Ram: from cylinder 20 to 79, using  
"MASH" compression with 100% efficiency and adds an icon.

> xFX write mfm.device:1 Ram:MyDisk START 10 END 20 VERIFY  
writes (with verify) the disk-image of "MyDisk" file starting from cylinder  
20 to 79. If the source file size is incompatible with the selected  
cylinder number, an error is displayed. The unpacking is automatically  
performed with crunched files.

> xFX copy mfm.device:2  
executes a copy of disk inserted into the drive 2, using the ram buffer.

> xFX copy DF0: TO trackdisk.device:1 VERIFY  
copies (cylinder by cylinder) form unit 0 to 1 with verify. In this way,  
the required ram amount is very small.

> xFX copy DEVICE scsi.device:3 DISKBUF DH0:  
copies the entire disk from scsi.device unit 3 (removable media like ZIP)  
with temporary buffer in DH0:

## 1.8 Workbench use

Under Workbench, xFX can't work if the reqtools.library is not present. If you want to use the graphic user interface, the Magic User Interface (MUI) is needed. You can find it on Aminet archive. ↔

xFX can be used under Workbench in three ways: (1) through tooltypes, (2) Appicon drag-&-drop, (3) GuiX - the graphic user interface of xFX.

4.2.1~Tool~Types~~

4.2.2~Drag~&~Drop~

4.2.3~GuiX~~~~~

## 1.9 4.2.1 Tool Types

In this way, a file-disk can be simply restored into the original ↔ support.

A double click on file-disk project icon (that can be automatically added by xFX) can start the xFX write process. This icon must have xFX as default tool. The tooltypes actually usable are:

Non optional tool types:

COMMAND -> Name of command to execute. At this time, the only supported command is WRITE, that restores a file-disk to the original storage medium.

DEVICE -> Name of device to use. For the correct syntax into Shell~use section. If the device name is omitted or a ↔ question mark ("?") is placed instead of it, the reqtools device requester is opened in order to simplify the selection.

Optional tool types:

START -> Starting cylinder (default is 0).

END -> Ending cylinder (default is the last and is dependent on the output device).

GEOMETRY -> It's a group of five values separated with one or more spaces: total sectors, size of each sector, sectors per cylinder, number of heads (surfaces). These informations are used from xFX to check if the file-disk is compatible with selected output device. If this tooltype is not set, xFX use another way (but less reliable).

VERIFY -> Executes a verify during write operations.

NOEJECT -> Disables automatic disk ejection (if it's possible).

QUIET -> xFX runs quiet displaying only error messages.

## 1.10 4.2.2 Drag & Drop

When xFX is running under Workbench (double click on icon), an AppIcon appears. If a file-disk is dragged on this icon, this is automatically used to regenerate the starting disk. To quit xFX, you can use the "Kill xFX" item into the tools menu. In another way, you can double click on xFX AppIcon. A file requester asks you confirm to proceed with this operation.

All read and write operations are graphically displayed in a window containing the "Abort" button. If this gadget is pressed or you type ESC or "A" (upper or lower case) on your keyboard, all operations are stopped.

## 1.11 4.3 Utilizzo tramite porta ARexx

If in your system is installed rexxsyslib.library and xFX is running under Workbench (double click on icon), an ARexx port called "xFX.N" is created. N is a progressive number that is used to avoid the duplication of name port if two or more xFX copies are running at same time. Usually, if only one xFX copy is running, the port name is "xFX.1".

Each command sent trough ARexx port, sets correctly the return code (RC ARexx variable), the RESULT variable for the return value and a special variable called XFX.LASTEROR with the error message that can be generated during xFX run. The supported ARexx commands are:

```
NOVIEWERR      -> Disables the displaying of error requesters, but all errors
                are still reported in XFX.LASTEROR variable.
QUIT           -> Exits from xFX.
REQERR "TEXT"  -> Displays a text in an error requester.
VERSION        -> Returns the current xFX version in RESULT.
VIEWERR        -> Activates the displaying of all errors (default mode).
```

Other commands follow the same syntax of shell ones:

```
> info "DF0:"
> read "diskspare.device:0" "MyDisk.dsk" pack SHRI NOEJECT
```

## 1.12 4.4 Hints

### 4.4.1 Packing method choice.

The packing method choice can be very important to obtain much compact filedisk and to waste a minimal amount of time to process a disk. A very good and fast algorithm is MASH. With slower Amigas, NUKE is sufficient for most applications but the efficiency is not the same of MASH. The best compression ratio (but with slow speed) can be obtained with SHRI and can be used to transfer disk images with a modem. This packing method is very useful with MSX disk, because can reduce a 720 Kb disk in 160-230 Kb file.

### 4.4.2 xFX and ShapeShifter.

The performances that xFX offers to ShapeShifter users, are very useful: HD disk copy, conversion of a disk into a file-disk for direct use with the emulator and the conversion of a entire ShapeShifter device-disk into a file-disk. This last possibility is very interesting, because it allows to

create a Mac file-disk (e.g. to insert in a CD-ROM). Through Consultron's mro.device, it's possible to convert 800 Kb A-Max disks into file-disks for ShapeShifter direct use. Sometimes, using a xFX file-disk, ShapeShifter does not recognize it immediately and asks for format. If you won't allow this operation, ShapeShifter will rebuild automatically the desktop and the file-disk icon will appear.

#### 4.4.3 xFX and fMSX.

xFX can be used to archive MSX disks in simply way using mfm.device. The XPK SHRI packing method allow to obtain the best compression ratio. File-disks, created with xFX, can be directly used with fMSX.

## 1.13 4.5 Error messages

xFX can returns all error messages in three different ways: Shell error messages (if it does run under shell), reqtools message requesters (if does run under Workbench) and "XFV.LASTEROR" ARexx variable. Here we report, alphabetically ordered, all possible error messages:

#### \* Aborted.

It's not a real error message. It allows to inform the user that xFX run is aborted (e.g. CTRL+C).

#### \* Can't add icon

It's not possible to add the file-disk icon, when the ADDICON option is selected. A disk access problem can generate this error.

#### \* Can't allocate crunch/decrunch buffer !

The crunch/decrunch allocation failed, because your system has not enough free memory.

#### \* Can't allocate device requester

Reqtools.library is not able to allocate the file requester. Maybe the memory run out.

#### \* Can't create AppIcon

During Workbench run, xFX can't add the AppIcon. With most probability, your chip memory run out.

#### \* Can't create ARexx port

The program can't create the ARexx port. Maybe your memory run out.

#### \* Can't create MenuItem

During Workbench run, xFX can't add items to tools menu.

#### \* Can't create mountlist

It's not possible to create the mountlist (MOUNTLIST option), because xFX can't recognize the file system of selected device driver. Usually this problem appears when you access directly a device driver. To solve this problem, you can use the correspondent AmigaDOS device,

\* Can't find disk object

It's not possible to find the disk object selected with drag & drop on AppIcon.

\* Can't open DEVICE unit N

The device DEVICE unit N can't be opened, because the device is temporarily busy and allocated by another program, or simply it's not installed in your computer.

\* Can't open progress window

It's not possible to open the progress window.

\* Can't read drive geometry

The selected device driver does not respond to TD\_GETGEOMETRY command. This problem can be bypassed using the correspondent AmigaDOS device.

\* Can't use an assign

Instead of a normal AmigaDOS device, you have used an assignment.

\* Command COMMAND require option OPTION

The specified command (COMMAND) requires the option OPTION.

\* Device name too long

The size of specified device (DEVICE and TO options) is too long.

\* Disk buffer full

On your disk, there is not enough free space to create the buffer.

\* Disk buffer not usable

The disk buffer is not usable. With most probability, the specified disk is write protected.

\* Disk buffer path too long

The disk buffer path is too complex (long).

\* Disk has errors !

This message remembers only that the processed disk has read or write errors.

\* Disk write protected in DEVICE unit N

---

The disk inserted into DEVICE unit N, can't be used, because it's write protected.

\* DOS Error: XXX

It's a dos error message. For more informations, please consult AmigaDOS manual.

\* File too large

The selected file-disk can't be used with WRITE command, because the size is not compatible with geometry of destination device.

\* File too short

The selected file-disk can't be used with WRITE command, because the size is not compatible with selected range of cylinders (START and END options).

\* Illegal character in PACK option

You have used an illegal character to specify the efficiency of packing method.

\* Illegal combination of START/END cylinders

The starting cylinder is upper to ending.

\* Illegal command

Unknown command (COMMAND option).

\* Illegal device name

The selected device is uncompatible with xFX device syntax.

\* Illegal ending cylinder

You have specified the END option with a cylinder number greater than top cylinder or lower than zero.

\* Illegal pack method

The packing efficiency is not in 0-100 range.

\* Illegal starting cylinder

You have specified the START option with a cylinder number greater than top cylinder or lower than zero.

\* Illegal unit number

You have used a not valid unit number.

\* Incompatible options TO and DISKBUF

The two-devices disk copy is not compatible with disk buffer.

---

- 
- \* IORquest not allocated  
It's not possible to allocate IORquest. Maybe the memory is not enough.
  
  - \* KickStart 2.04+ needed !  
Your system is not compatible with xFX.
  
  - \* LIBNAME.library VXX.XX or higher needed !  
xFX can't open the LIBNAME library with specified version. Maybe, the library is not installed in your system.
  
  - \* Memory fragmentation is too high !  
The memory fragmentation is too high to make a single-swap copy. You can reset your Amiga, or use the disk buffer.
  
  - \* MsgPort not allocated  
xFX can't allocate MsgPort. Maybe the memory is full.
  
  - \* No device selected  
You don't have specified the DEVICE tooltype.
  
  - \* No disk in DEVICE unit N !  
No disk is present in device DIVICE unit N.
  
  - \* Not enough disk space for buffer  
Your disk space is not sufficient for disk buffer (DISKBUF option).
  
  - \* Not enough memory for single swap copy  
The single swap copy can't be performed, because your system memory is not enough. You can use disk buffer, or a second device (TO option).
  
  - \* Only WRITE command is supported through Tool Types  
Instead of WRITE, you have used another command via tooltypes.
  
  - \* Option OPTION ignored  
You have specified a option (OPTION) that is not used by command. This option is ignored.
  
  - \* Out of chip memory !  
The chip memory is not enough.
  
  - \* Read error at cylinder N  
During read operation, the cylinder N reports an error.
-



- \* Screen too small  
The progress window can't be opened, because the screen is too small.
  
- \* Selected device is not a disk or is not mounted  
The selected device does not correspond to device disk, or it is not mounted.
  
- \* SOURCE and DESTINATION are not compatible !  
The source and destination disks have incompatible geometry.
  
- \* SOURCE and DESTINATION are the same device and unit  
The source and destination are the same device (COPY command).
  
- \* Specify the input file-disk  
With WRITE command, you need specify the input file.
  
- \* Specify the output file  
With READ command, you need specify the output file.
  
- \* Too many objects !  
You have dragged more than one object on xFX AppIcon. xFX supports only one object at a time.
  
- \* Tool type COMMAND required  
You need COMMAND tooltype.
  
- \* Verify error at cylinder N  
xFX has found a verify error at Nth. cylinder.
  
- \* Write error at cylinder N  
xFX has found a write error at Nth. cylinder.
  
- \* XPK Error: XXX  
It's a XPK library error. Check the XPK documentation.

## 1.14 6. Note

### 6.1 General notes.

- xFX does not need a large memory segment to allocate the copy-disk buffer. Thus, it has no problems to run even if memory fragmentation is very high.
  
  - xFX works correctly with this tested devices: trackdisk.device,
-



Amiga	floppy	3.5	HD	2050	4100	512	82	50	2	3
Atari ST		3.5	SD	360	720	512	80	9	1	4
Atari ST		3.5	DD	720	1440	512	80	18	2	4
C= 1541		5.25	SS	171	683	256	35	17-21	1	-
C= 1571		5.25	DS	342	1366	256	35	17-21	2	-
Macintosh		3.5	DD	800	1600	512	80	20	2	5
Macintosh		3.5	HD	1440	2880	512	80	36	2	4
Ms-Dos		5.25	SD	160	320	512	40	8	1	4
Ms-Dos		5.25	SD	180	160	512	40	9	1	4
Ms-Dos		5.25	DD	320	640	512	40	16	2	4
Ms-Dos		5.25	DD	360	720	512	40	18	2	4
Ms-Dos		3.5	SD	360	720	512	80	9	1	4
Ms-Dos		2.5	DD	720	1440	512	80	18	2	4
Ms-Dos		3.5	DD	720	1440	512	80	18	2	4
Ms-Dos		5.25	HD	?	?	512	?	?	2	4
Ms-Dos		3.5	HD	1440	2880	512	80	36	2	4
Ms-Dos		3.5	ED	2880	5760	512	80	72	2	4
MSX		3.5	SD	360	720	512	80	9	1	4
MSX		3.5	DD	720	1440	512	80	18	2	4
Spectrum		3.5	SD	400	800	512	80	10	1	4
Spectrum		3.5	DD	800	1600	512	80	20	2	4

=====

## 1.15 7. Bugs

xFX is a very young software and, with most probability, contains some little bugs. For suggestions, questions and bug reports, please you refer to the Author~address. ↔

## 1.16 8. Futuro

- Support of single sided disks.
- GZip like packing method (LZ77) for Unix users (Uae !??!).
- PowerPacker support.
- SCSI-Direct support.
- Use of iec.library for drive C= 1541 compatibility with creations of file-disks in .d64 format.
- Direct access to 5.25 inches floppy driver to read C= 64 floppy disks.
- GuiX tool to recognize the file-disk type.
- Read and write function for boot-blocks.

## 1.17 9. Development tools

- Development hardware:  
A1200 030/882 @50 MHz, 16 Mb Fast Ram, HD 1080 Mb, CD-ROM 4x, Kick 3.0
- Hardware for beta-testing:

A4000 040 @25 MHz, 16 Mb Fast Ram, CV 64, HD 3.2 Gb, CD-ROM, Kick 3.0  
A3000 030/882 @25 MHz, 2 Mb Chip/12 Mb Fast, Merlin, HD 2 Gb, Kick 3.1  
A500 512Kb Chip/1.8Mb Fast, HD 20 Mb, Kick 2.04

- Software:  
Gcc V2.7.2, Libnix, CygnusEd II, GoldED 4, XPK User & Developer Archive,  
Enforcer V37, MungWall.

## 1.18 10. Thanks

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- Mikael Lund (danish translation of catalogs).

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All people unitentionally not thanked in this document, please don't offend.

## 1.19 11. Copyright

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xFX  
 is a software developed in 1997  
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## 1.20 12. History

0.10 (internal):

- First release.

0.11 (internal):

- Solved the access inhibition problem when device in use.
- Now the ARexx error messages are reported correctly.
- The device unit number is not more limited to 10.
- Added the IDCMP DISKINSERTED message to notify the disk swap.

1.0 (first public release):

- AmigaGuide® documentation.
- Installer.
- ARexx examples.
- Removed a little bug concerning to two drive copy.
- Added automatic stack checker.

1.1 (second public release):

-

GuiX

: The graphic user interface of xFX.

- xFX is now localizable.
- Variables optimisation to reduce the code size.
- ".xfx" extension is added automatically to file name.
- VERBOSE and FORCEEXT switches.
- Cursor blanking to accelerate the text output.
- Progress bar under Cli.
- Asynchronous track reading during packing.
- All buffers are now allocated in public memory.
- The size of XPK chunks is totally used. In this way, the packing efficiency is more strong.

## 1.21 5. GuiX

```
#####
#####
#####
```



```
####          ##
#             #
#             #
```

## 1.22 5.1 GuiX: Introduction

GuiX is the graphic user interface of xFX. This software is based on Magic User Interface (MUI, © Stefan Stunz) and was developed to simplify as much as possible the xFX use. It has built-in tools that allow some functions not implemented in xFX. In-line help and bubble help allow a very intuitive use of GuiX and xFX.

Unlike some others graphic interfaces, GuiX communicates bidirectionally with xFX through ARexx port. This communication method allows a high integration of these two programs.

Unlike xFX, GuiX need the KickStart 3.0 or better to work.

## 1.23 5.2 GuiX: Menu

The structure of GuiX menu is:

Project

```
~Start~~~~~
~~~~

~Delete~Files~
-----

~Save~Prefs~~~
-----

~About~MUI~~~~
~About~GuiX~~~
-----

~Iconify~~~~~
~Quit~~~~~
  Command

~Read~~~~~
~Write~~~~~
~Copy~~~~~
~Check~~~~~
  Extras
```







```

|                                     |                                     +-----+
|+-----+ |                                     Mountlist | |^| | | <- E
||          Start          | |                                     +-----+
|+-----+ +-----+
+-----+
|                                     | / |
+-----+

```

#### Description:

A) Listview of XPK compression methods.

This list is disabled if the Pack option (section B) is not checked.

B) Optional checkboxes.

Add Icon -> Adds an icon to file-disk.

Pack -> Activates the file-disk compression.

MontList -> Generates automatically the fmsdisk.device mountlist.

(see  
~Shell~use~  
)

No Eject -> Inhibits the automatic disk ejection.

C) Slider of XPK efficiency compression.

This option is disabled if the Pack option (section B) is not checked.

D) XPK password (optional).

This option is disabled if the Pack option (section B) is not checked. It allows to specify an encryption password if needed.

E) Mountlist file to create.

This item is not activated if the Mountlist option (section B) is not checked.

## 1.26 5.3.2 GuiX: Write

```

+-----+
|*| GuiX - © 1997 Alessandro Pedretti |%| | |
+-----+
|+----- Device -----+ /-----\ /-----\ /-----\ /-----\ |
||+-----+ | Read | | Write | | Copy | | Check | |
|| | |^| | /-----+ +-----+
||+-----+ | | | | | | |
|+-----+ | | |
|+----- File -----+ | A B | |
||+-----+ | | | |
|| | |^| | | * * | |
||+-----+ | +-----+ | |
|+-----+ | | [] Verify [] No Eject | | |
|+----- Cylinders -----+ | +-----+ | |
|| +---+ | | +-----+ | |
|| Start | 0 | | Password | | |
|| +---+ | | +-----+ | |
|| +-----+ | | * | |
|| End | |79| | |

```



Description:

A) Destination device

If the radio button Device is checked, you can specify the name of destination device. You must use the same rules that are explained into the section

```
Shell~use
. You can use the
device~requester
pressing the special
```

button.

B) Checkbox for special functions:

Verify -> verifies each written cylinder.  
No Eject -> inhibits the automatic disk ejection at the end of copy.

C) Disk buffer path.

If you activate the copy with only one device and with "on disk" buffer (radiobutton Disk Buffer), you must specify the path, where a temporary file can be created.

D) Radiobuttons to select the copy method.

Memory -> Copies with only one device: memory buffer.  
Disk Buffer -> Copies with only one device: "on disk" buffer.  
Device -> Copies with two compatible devices.

## 1.28 5.3.4 GuiX: Check

```
+--+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|*| GuiX - © 1997 Alessandro Pedretti                                     |%|||
+--+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|+----- Device -----+ /-----\ /-----\ /-----\ /-----\ |
||+-----+-----+-----+ | Read | | Write | | Copy | | Check | |
|||           ||^|| /-----+-----+-----+-----+-----+     ++|
||+-----+-----+-----+ |                                     ||
|+-----+-----+-----+ |                                     ||
|+----- File -----+ |                                     ||
||+-----+-----+-----+ |                                     ||
|||           ||^|| |                                     ||
||+-----+-----+-----+ |                                     ||
|+-----+-----+-----+ |                                     ||
|+----- Cylinders -----+ |                                     ||
||           +--+-----+ | |                                     ||
|| Start | 0 |           | | |                                     ||
||           +--+-----+ | |                                     ||
||           +-----+-----+ | |                                     ||
|| End |           |79| | |                                     ||
||           +-----+-----+ | |                                     ||
|+-----+-----+-----+ | |                                     ||
|                                     | |                                     ||
|+-----+-----+-----+ | |                                     ||
||           Start           | | |                                     ||
|+-----+-----+-----+ +-----+-----+-----+-----+
|                                     | |                                     |
|                                     | |                                     |
```



-> Mounted AmigaDOS devices.

~Unmounted~

-> Unmounted AmigaDOS device.

~Device~~~~

-> Device drivers.

B) Geometry of selected device.

The geometry is showed automatically in Mounted e Unmounted mode, when you select a device from listview. In Device mode, you must press the Info button to display the geometry.

C) Name of selected device.

You must use the same conventions explained into  
Shell~use  
section.

D) Confirm button.

Confirms the selected device.

E) Cancel button.

Cancels the selection and closes the window.

Menu items:

Device List

Rescan <--- Reapeats the scansion of devices (short key RAMIGA + R)  
Close <--- Closes the window (short key RAMIGA + C)

Mode

Mounted <--- Shows the mounted devices (short key RAMIGA + M)  
UnMounted <--- Shows the unmounted devices (short key RAMIGA + U)  
Drivers <--- Shows the device drivers (short key RAMIGA + D)

## 1.30 5.4.1 GuiX: Mounted

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|*| Device Selector                                     |%|||
+-----+-----+-----+-----+-----+-----+-----+-----+
| /-----\ /-----\ /-----\ +----- Geometry -----+
| |Mounted| |Unmounted| |Drivers| | | | | | | | | | | | | | | | | | | | |
|/          +-+-----+-+-----+-+ | Device Driver - | | |
|| +-----+-----+-----+-----+ | | | | | | | | | | | |
|| | CC0:          |*| | | | | | | | | | | | | | | | | | | | | | |
|| | CD0:          | | | | | | | | | | | | | | | | | | | | | | |
A -> || | DF0:          | | | | | | | | | | | | | | | | | | | | | | |
|| | DF1:          | | | | | | | | | | | | | | | | | | | | | | |
|| | DF2:          | | | | | | | | | | | | | | | | | | | | | | |
|| | DH0:          | | | | | | | | | | | | | | | | | | | | | | |
|| | DH1:          | | | | | | | | | | | | | | | | | | | | | | |

```

```

|| | DH2:          | | | |
|| | PC0:          | | | |      Cylinders -
|| | PC1:          | | | |
|| | PC2:          | | | |      Sectors/Cyl. -
|| |              +--+ | |
|| |              |=| | |      Surfaces -
|| |              +--+ | |
|| |              |=| | |      Sectors/Track -
|| +-----+--+ | |
|+-----+-----+-----+
|
|Device      |             | |   Ok   |   | Cancel |
|             +-----+-----+-----+
+-----+
|
|
+-----+
|
|
+-----+

```

Description:

A) Listview of mounted devices.

If you click on an available device, you can select it and display the correspondent geometry.

### 1.31 5.4.2 GuiX: Unmounted

```

+-----+-----+-----+
|*| Device Selector                                     |%|||
+-----+-----+-----+
| /-----\ /-----\ /-----\ +----- Geometry -----+
| |Mounted| |Unmounted| |Drivers| |
|/-----+--+          +--+-----++ | Device Driver -
|| +-----+--+ | |
|| | AUX:          |*| | |      Unit -
|| | DS0:          | | | |
|| | DS1:          | | | |      Size (KBytes) -
|| | DS2:          | | | |
A -> || | EMPCD:      | | | |      Tot. Sectors -
|| | FF0:          | | | |
|| | FF1:          | | | |      Sector Size -
|| | FF2:          | | | |
|| | FPC0:         +--+ | |      Cylinders -
|| | FPC1:         |=| | |
|| | PPC2:         +--+ | |      Sectors/Cyl. -
|| | FS0:          |=| | |
|| +-----+--+ | |      Surfaces -
|| +-----+ | |
B -> || |          Mount          | | | Sectors/Track -
|| +-----+ | |
|+-----+-----+-----+
|
|Device      |             | |   Ok   |   | Cancel |
|             +-----+-----+-----+
+-----+
|
|
+-----+
|
|
+-----+

```





With this slider, you can select the unit number.

C) Info button.

Many device drivers don't support the trackdisk.device command TD\_GETGEOMETRY, so crashing your system because this command is not recognized. If you press this button, you can force the geometry reading with some risk. Thus in device mode, the automatic geometry reading is disabled. (see the section~6.1 ).

### 1.33 GuiX Menu: Start

Short key: RAMIGA + S

Activates xFX and has the same function of Start button that is available in main window.

### 1.34 GuiX Menu: Delete Files

Short key: nessuno

Allows to erase one or more files using the reqtools.library file requester.

### 1.35 GuiX Menu: Save Prefs

Short key: RAMIGA + P

Saves the current preferences into GuiX.prefs file.

### 1.36 GuiX Menu: About MUI

Short Key: RAMIGA + M

Shows the MUI copyright message.

### 1.37 GuiX Menu: About GuiX

Short key: RAMIGA + ?

Shows the GuiX copyright message.

---

### 1.38 GuiX Menu: Iconify

Short key: RAMIGA + I

This menu item iconifies GuiX.

### 1.39 GuiX Menu: Quit

Short key: RAMIGA + Q

Closes GuiX and xFX.

### 1.40 GuiX Menu: Read

Short key: RAMIGA + R

Displays the register page with READ options.

### 1.41 GuiX Menu: Write

Short key: RAMIGA + W

Displays the register page with WRITE options.

### 1.42 GuiX Menu: Copy

Short key: RAMIGA + C

Displays the register page with COPY options.

### 1.43 GuiX Menu: Check

Short key: RAMIGA + K

Displays the register page with CHECK options.

### 1.44 GuiX Menu: MUI Prefs

Short key: RAMIGA + A

Activates the standard program to configure MUI.

---

## 1.45 GuiX Menu: Help

Short key: RAMIGA + H

Activates help in AmigaGuide® format.

## 1.46 5.5.1 GuiX: Checksum calculator

Short key: RAMIGA + 1

This is a tool for multiformat calculation of file-disk checksum. The supported method are five:

```
Brick CRC-32 <-- It's the GNU command Brick
BSD          <-- Without polinomial table
MD5         <-- 64 bit with polinomial table
Posix       <-- With polinomial table
System V    <-- Without polinomial table
```

```
+--+-----+--+
|*| CheckSum Calculator  |%||
+--+-----+--+
|+-----+|
||      +-----+--+ ||
|| File |           ||^| || <-- File name for calculation
||      +-----+--+ ||
||      +--+-----+ ||
||Method ||^| Brick CRC-32 | || <-- Method
||      +--+-----+ ||
|+-----+|
|+----- Checksum -----+|
|| Dec -           || <-- Decimal checksum
|| Hex -           || <-- Hexadecimal checksum
|+-----+|
|+-----+|
||+-----+ +-----+ ||
||| Calc | | Cancel | || <-- Control buttons:
||+-----+ +-----+ ||      Calc = calculates the checksum
|+-----+|      Cancel = closes the window
+-----+|
|           |/|
+-----+|
```

Menu items:

```
Checksum
  Calculate <-- Activates the calculation (short key RAMIGA + C)
  -----
  Close    <-- Closes the window (short key RAMIGA + Q)
```

## 1.47 5.5.2 GuiX: File Splitter

Short key: RAMIGA + 2

The File Splitter is a GuiX section that is able to split a file-disk into more than one file with prefixed size. In this way, you can split very big files into more than one disks. File splitter is also able to execute the join operation to recreate the original file-disk, using a set of files with smaller size. You can also perform this operation using the AmigaDOS command JOIN. All files generated from the original file-disk, have a name composed of a prefix specified by user and of numerical suffix (extension), like: PREFIX\_NAME.001 The maximum number of splitted files is 999.

```

Mode:
+--- Split = creates a set of files from a file-disk
|   Join  = joins all splitted files to create the original file-disk
|
| +---+-----+-----+-----+-----+-----+-----+-----+-----+
| |*| File Splitter                                     |%||
| +---+-----+-----+-----+-----+-----+-----+-----+
| |-----+-----+-----+-----+-----+-----+-----+
| ||          +-----+-----+-----+-----+-----+ ||      File name to split
| || Name |          ||^| || <--- or name of any file
| ||          +-----+-----+-----+-----+-----+ ||      to join
| |-----+-----+-----+-----+-----+-----+
| |-----+-----+-----+-----+-----+-----+
| ||          +---+-----+          +-----+-----+ ||
+>|| Mode ||^| Split | Prefix |          ||^| || <--- File prefix
   ||          +---+-----+          +-----+-----+ ||
   ||          +-----+-----+ +---+-----+-----+ ||
+>|| Size |          | ||^|      Custom      | || <--- Presetted sizes
| ||          +-----+-----+ +---+-----+-----+ ||
| |-----+-----+-----+-----+-----+-----+
| |-----+-----+-----+-----+-----+-----+
| || +-----+-----+          +-----+-----+ ||
| || |      Execute      |          |      Cancel      | || <--- Closes the window
| || +-----+-----+          +-----+-----+ ||
| |-----+-----+-----+-----+-----+-----+
| |
| |
| |          ^
| |          |
| |      Activates the process
| |
| |          Size (bytes) of files
+-----+-----+-----+-----+-----+-----+ to create

```

Menu items:

Splitter

Execute <--- Activates the Join/Split process (short key RAMIGA + E)

-----

Chiudi <--- Closes the window (short key RAMIGA + C)

Notes:

The presettet file sizes are:

```
=====
Botton      Bytes      Floppy
=====
 360 Kb     364032     5.25" DD, 3.5" SD Ms-Dos
 720 Kb     730112     3.5" DD Ms-Dos
 880 Kb     899072     3.5" DD Amiga FFS
 1.44 Mb    1457664     3.5" HD Ms-Dos
 1.76 Mb    1800192     3.5" HD Amiga FFS
 2.88 Mb    2913280     3.5" ED Ms-Dos
 3.5 Mb     3602432     3.5" ED Amiga (Super XL drive)
=====
```

## 1.48 5.5.3 GuiX: UnPacker

Short key: RAMIGA + 3

UnPacker is a tool that is able to depack all file-disks created with xFX. It use the XPK library set and the unpacked file is overwritten on the original.

```
+--+-----+--+
|*| File-Disk UnPacker      |%||
+--+-----+--+
|+----- File-Disk -----+|
||      +-----+--+||
|| Nome |                ||^|| <--- File-disk name to depack
||      +-----+--+||
|+-----+|
|+----- Progress -----+|
||+-----+|
|||                0 %                ||| <--- Progress bar
||+-----+-----+-----+|
||0%                50%                100%||
|+-----+|
|+-----+|
||+-----+ +-----+||
+> |||  UnPack  | |  Cancel  ||| <--- Closes the window
|  ||+-----+ +-----+||
|  |+-----+|
|  +-----+|
|  |                |/|
|  +-----+|
|
|
+----- Activates the unpacking procedure
```

Menu items:

UnPacker

Close <--- Closes the window (short key RAMIGA + C)

---