

xadmaster

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Chapter 1

xadmaster

1.1 Welcome to the XAD system documentation

```
*****
*
* xadmaster.library - the powerful unarchiving system *
*
*****
```

What is it

Concept and Introduction

Why use it

Use it!

Examples

Usage Examples

Requirements

XAD system requirements

Installation

How to install XAD system

Clients

Supported archivers

Tools

Shell tools

GUI

Graphical user interface

Developers

A word to programmers

Shareware

xadmaster.library is Shareware

Disclaimer
 Read this!

Author
 Contact me

Homepage
 Homepage and mailinglist

History
 Short system history

Thanks
 Some helpful people

1.2 What is it

The xadmaster.library is the base library of a standard interface [↔](#) for dearchiving file and disk archives. Maybe you know xfdmaster.library already, which is the interface for decrunching crunched data files and crunched programs. The xadmaster.library is the same, but for archives and disks.

This library allows to unarchive lots of different archiver formats with just one archiver tool. If someone makes a nice GUI for xadmaster.library, it can be used for all the included archiver types. It is no longer needed to have lots of archivers with lots of options and lots of GUIs and lots of problems. Only one library and one tool. Besides this xadmaster.library allows to unarchive very strange archiver types. Some of the older archivers do not work any longer on newer machines, but xadmaster.library solves this problem, as there is needed only a short client to support a new format.

Disk archives can be decrunched to devices, memory and files (which results in ADF format). This is not possible with the most disk archiver programs.

At the moment xadmaster.library does not support RAW disk images and MFM archivers. Normally it is easy to expand the disk interface to support them, but there are some reasons, why this is not done at the moment:

- There aren't that much archivers supporting that features.
- I did never see a RAW disk archive anywhere, only the archivers itself.

If there is really a need for this feature, I will think about implementing it.

1.3 Why use XAD system

This library system has some advantages:

- It supports lots of different archive types.
- Archivers are internal or in specific clients. No special programs are needed.
- All archivers have the same interface and do their work in same way. There is no need to learn different options for different archivers or work around interface problems of archiver programs.
- The library has a lot of features not supported by most archivers, e.g. unarchiving disks into image files.
- The archiver clients are really short compared to most archiver programs.
- The library can support nearly all possible archivers, also very strange and old ones.
- Adding new archivers is really easy by making a new external client
- .
- Most of the supported archivers are a lot more stable and have better error handling than the archiver programs.

1.4 Usage examples for XAD

The included shell tools allow to access most features of XAD system. Here are some examples, what you may do.

- 1) Extract files from file archives to ram disk:
xadUnFile example.lha RAM:
- 2) List information about file archives:
xadUnFile example.lha INFO
- 3) Extract disk archive to formatted floppy disk:
xadUnDisk example.dms DF0:
- 4) Convert disk archive into ADF format:
xadUnDisk example.dms example.adf
- 5) Extract files from disk archives to ram disk:
xadUnFile example.dms RAM: DARC
- 6) Extract files from adf file to ram disk:
xadUnFile example.adf RAM: DIMG

Surely this is not all it can do! You have lots of options:

- select patterns for files to extract
 - overwrite files or not
 - create directories or not
 - delete incomplete files or not
 - show list output with protection bits or more information
 - display disk archive information texts
 - handle multiple splitted archive files
 - ignore comments, filedates, protection bits, file tree
 - ...
-

1.5 Requirements of XAD system

All executable files in this packet require at least OS version V37 (OS2.0) to do their work.

The xadmaster.library must be in the LIBS: drawer and any needed client in the LIBS:xad drawer.

1.6 What to do to install XAD system

Copy xadmaster.library to LIBS: and the clients to the LIBS:xad drawer. The utility programs can be copied anywhere. Best will be C: drawer.

The included Install script does an easy installation of required components.

Registered users get a keyfile to disable the shareware requests. This file needs to be installed following way:

- a) If you have a KEYPATH environment variable, copy it to the directory specified there.
- b) If you have a KEYS: assign, copy it to that directory.
- c) In any other case copy it to S:

1.7 clients

Clients can be internal (in the library) or external (in LIBS:xad drawer). External clients can be made by anyone and may also replace the internal clients.

Currently there are following standard clients (internal and external).

Disk archivers

- | | |
|-----------------|---|
| CompDisk | Older disk archiver by Olaf Barthel. |
| * COP | Buffer files of COP disk backup and copy tool by Armin Sander. |
| CrunchDisk | XPK and PP based archiver by Klaus Deppisch. |
| DCS | XPK based "Device Compression System" by Nicholas Clarke. This supports multiple password runs. As XAD only supports one password, all the passwords need to be passed as 1 string with the entries seperated by ' ' sign (f.e. "pwd1 test2 test3 test4") |
| * DImp | Disk-Imploder by Albert-Jan Brouwer. |
| * DImp SFX | Self extractable form of Disk-Imploder. |
| * DiskPacked Z. | C64 data storage format. |
| * El Torito | Image of bootable MS-DOS CD's. |
| GDC | Old XPK based disk archiver by Marcel van Lohuizen. |
| LhWarp | Older disk archiver by Jonathan Forbes. |
| Marc's DiskCr | XPK based archiver by Marko Pozarnik. |
| * MSA | Magic Shadow Archiver. |
| PackDev | XPK based archiver. |
| PackDisk | XPK based archiver by Edgar M. Vigdal. |

Savage Comp. Disk archiver mady by Markus Zeller based on a cracked version of LhA by Stefan Boberg.

SuperDuper3 Buffer file of SuperDuper3.

Warp Very old disk archiver system by SDS software.

* X64 DiskImage Disk Image of C64 floppy.

xDisk XPK based archiver from Oliver Wagner released with German Amiga Plus magazine.

xMash XPK based archiver.

* ZAP Older disk archiver by "GREMLIN of MAYHEM".

* Zoom, Zoom 5 Zoom disk archiver made by Olaf Barthel.

File archivers

Ace Archiver made by Marcel Lemke. Encrypted files are not supported, because of missing decryption code.

Ace MS-EXE The self executable Ace file format for MS based PC's.

Amiga+ Unpack Unpack file archiver used for older German "Amiga Plus" coverdisks.

AmiPack AMI-Pack file archiver used on German "Amiga Magazin" coverdisks. This client is lots faster than original tool.

* AMOS Sample. An client to extract IFF samples from AMOS sample files.

* Ar Unix object file archive library.

Arc Very old archiver. Encrypted archives cannot be detected, but password is supported! Arc normally uses upper case passwords!

Arj Often used archiver on MS-DOS/Windows machines.

Arj MS-EXE The self executable Arj file format for MS based PC's.

* ASCII encod. One client for lots of these ASCII mail transfer formats like uuencode, base64, abe and others.

* BZip File archiver which came before bzip2.

* BZip2 Often used tar-compressor. The format does not store decompressed size, so certain limitations exist on extracting (e.g. no size displayed and extracting to memory may fail).

* C64s TapeIma. Image of C64 tape.

* CAB The popular MS-Windows installation file archive format.

* CAB MS-EXE The self-extracting form of CAB.

Compress Sometimes used tar-compressor. The format does not store decompressed size, so certain limitations exist on extracting (e.g. no size displayed and extracting to memory may fail).

Cpio A Tar like uncompressed archive format used for example in RPM files.

* EPF Archive files of game Darkmere.

GZip This client only supports one-file GZip archives. If no filename is stored in the archive, a default is used.

GZip SFX Shell-script based self executable forms of GZip archives for Unix. Serveral different formats are supported.

* HA Archiver by Harri Hirvola. Often used for text compression.

* id-Softw. PAK Quake game PAK data files.

* LBR C64 C64 data storage format.

LhA The wellknown standard Amiga archiver. This archiver client has been tested with lots of different files and also handles defective archives in a very good way. It handles all archives correctly which crash Stefan Boberg's LhA and later releases, but Stefan's LhA is still faster than this. This client also handles compression methods unknown to Stefan's LhA.

LhA C64 SFX The self executable LhA file format of C64/C128 computers.
 LhA MS-EXE The self executable LhA file format for MS based PC's.
 LhA SFX The self executable LhA file format from Stefan Boberg.
 LhF Older Amiga archiver by Stefan Pampin.
 * LhPak SFX Self extracting archiver used for Zoom 5.x releases.
 * LhSFX Seldom used self extracting archiver.
 * LU An uncompressed "BASIC Library Manager" archive format.
 * LyNX C64 data storage format.
 * LZX LZX dearchiver (what else :-).
 * MacBinary Uncrunched transport format for Macintosh files.
 * MakeSFX 1.0 MakeSFX is an AmigaDOS script by Stuart Caie generating self-extracting Amiga archives.
 * MakeSFX 1.2 MakeSFX is an AmigaDOS script by Stuart Caie generating self-extracting Amiga archives.
 * MS-TNEF Microsoft TNEF mail attachment format.
 MXM-Sim. Arc. Simple self extracting archiver found in Zoom 4.1 archive.
 * Outl.Exp.4 M. Mailbox files of Outlook Express 4.
 * PackIt Older Macintosh archiver.
 * PAK SFX Self extracting archiver by Mark Riley.
 * PC64 File C64 image file.
 * PComp. PACK Archive format of PCompress.
 * RAR This archiver is often used on MS-DOS/Windows computers.
 * RAR MS-EXE The Self executable RAR files for MS based PC's.
 * RPM Archive format of "RedHat Package Manager" for Unix distributions.
 * S-Omni Old, seldom used selfextracting format.
 S-Pack Old, seldom used archiver format.
 S-Pack SFX Self extraction version of S-Pack.
 SDS Soft. SFX SDS Software Self Extracting archives (used to distribute DMS utility (1.01 to 1.11)).
 Shrink Older Archiver by Matthias Meixner.
 SQ File squeezer by R. Greenlaw.
 * StuffIt Popular Macintosh archiver by Aladdin, older version.
 * StuffIt 5 Popular Macintosh archiver by Aladdin, newer version.
 * StuffIt 5 EXE Self extractable version of StuffIt 5 for MS based PC's.
 Tar UNIX tar program. For gzipped tar archives, you can first use the Gzip client to extract tar file and afterwards Tar client to extract final files. Sorry, but one-pass TarGZ is impossible.
 WinZip MS-EXE Often used self extracting Zip format on MS-Windows based machines.
 * Wrapster (3) Wrapster is a way of using the Napster MP3 sharing system to share all types of files.
 XPK Archive File archive created with XArcTool and xpkarchive.library. This should be the top level of XPK, but never got widely accepted.
 Zip The most often used archiving system.
 Zip MS-EXE Self extracting Zip executables for MS-based machines.
 Zoo Very old archiver.

Mixed archivers

DMS This archiver supports the complete range of files, which can be produced using DMS. This includes disk images and file archives. Some of these files are corrupt and DMS itself cannot handle them (but this client).
 DMS SFX Self extracting DMS/FMS archives of DMS 2.x including corrupt format of DMS 2.04.

Filesystems

- Amiga Std FS The standard filesystem of Amiga computers in all its 6 forms (OFS and FFS in Normal, International or Dircache mode).
- * CBM-DOS 1541 Filesystem of 1541 floppy for C64/C128.
 - * CBM-DOS 1581 Filesystem of 1581 floppy for C64/C128.
 - * Game/Demo FS Filesystems of game and demo disks.
 - * ISO 9660 CDFS Filesystem of ISO9660 CD's.
 - * LightFileSys. Games and demo filesystem by Lighting Inc.
 - Microsoft FAT The filesystem used on all the MS compatible machines. Supports FAT12, FAT16 and FAT32.
 - * NiteTimeGames This filesystem is used in the game Mean Arenas and the demo for the game PremierManager3.
 - Sanity OS FS Internal SanityOS filesystem client done by Stuart Caie. This format is used on Sanity demo disks.
 - * Sensi disk FS Filesystem used on some games made by Sensible Software (e.g. Cannon Fodder 1 and Sensible Soccer 1.1)
 - * SFS3 FS SmartFilesystem version 3.
 - * TR-DOS FS Filesystem for ZX Spectrum computers disk images.
 - * Trackmo FS Filesystem used on some demo disks.

Now some information about the external clients:

File	Status	Author
AmigaGameDemoFS	Freeware	Ronald van Dijk
AmosSampBank	GPL	Stuart Caie
ar	GPL	Stuart Caie
ASCII	GPL	Stuart Caie
bzip	GPL	Stuart Caie
bzip2	GPL	Stuart Caie
CAB	GPL	Stuart Caie
CBM-8bit	Freeware	Ronald van Dijk
COP	GPL	Stuart Caie
DImp	GPL	Stuart Caie
ElTorito	Freeware	Ronald van Dijk
EPF	Freeware	Ronald van Dijk
HA	GPL	Dirk Stöcker
idPAK	Freeware	Sigbjørn Skjøret
ISO9660	GPL	Ronald van Dijk
LightFileSystem	Freeware	Ronald van Dijk
LU	Freeware	Ronald van Dijk
LZX	Freeware	Dirk Stöcker
MakeSFX	GPL	Stuart Caie
MS-TNEF	GPL	Stuart Caie
MSA	GPL	Stuart Caie
oe4	Freeware	Michal Jarzynski
PAK	Freeware	Ronald van Dijk
RAR	Freeware, MC68020	Mikolaj Calusinksi
RPM	GPL	Stuart Caie
SFS	GPL	Andrew Bell
StuffIt	GPL	Dirk Stöcker
TR-DOS	GPL	AmiS
Wrapster	GPL	Stuart Caie
ZAP	GPL	Stuart Caie
Zoom	Freeware	Dirk Stöcker

1.8 Included shell tools

To use the `xadmaster.library`, there are some shell tools included in `C` directory. Their docs are in `Docs` directory. See these docs for better understanding.

`exe2arc`

This tool converts `exe` files to archives.

`xad2lha`

This tool converts any archive to an `lha` archive. It uses internal `lh5-compression` and does not need `lha` utility.

`xadLibInfo`

Prints information about `xadmaster.library` and supported archiver formats.

`xadUnDisk`

This tool can be used to extract supported disk archives.

`xadUnFile`

This tool can be used to extract files from supported file archives. This is the most needed tool. It can replace all these `unlzx`, `unrar`, `unlzh`, ... programs.

`xadUnFileM`

This one is like `xadUnFile`, but supports to pass multivolume or splitted archives to the XAD system.

`xadList`

A tool like normal `List` command, but additionally prints if a file is an archive and the type of archiver.

`xadUnTar`

A tool to extract and list `Tar` archives. The archives maybe compressed with any of the supported archive types (`BZip`, `BZip2`, `GZip`, ...).

These tools can be easily used from within directory managers like `Directory Opus` or `DirWork`.

1.9 Graphical user interface

This distribution does not include any graphical user interfaces. There are programs in `Aminet` supporting this unarchiving system. And there is one really nice tool called "`Voodoo-X`", which can be called "`THE GUI`" at the moment.

It has been done by Andrew Bell and can be found in `Aminet` directory `util/arc` under the name `Voodoo-X.lha` (and its `readme` file).

You should try it, if you do not like shell work.

1.10 Developing for XAD system or using xadmaster.library

Carefully read the autodoc files. Normally all important information is written down in these files. Check the include files as well, as they cover lots of comments.

Very few examples are supplied together with that library. The shell tools may help to understand the usage of the master library, the example clients may help to make own clients. There is especially one well documented example client describing the clients internals.

If you have still problems, contact me and I will answer your questions. Normally I use such questions to improve the docs afterwards.

Writing a client needs some knowledge of the archiver the client should support and knowledge of clean Amiga programming. All data must be read and written through input/output functions. There is no end user interface, so the client must handle error conditions, destroyed files and all such cases itself and in an acceptable manor. Of course all clients must be reentrant (as they are used in a library)!

These requirements can be called "good and clean programming style" and are not special to xadmaster.library.

I would like to get clients in C language for portability reasons. For now it is nearly sure, that Amiga computers will change a lot in future. C code has best chances to survive that changes without lot of effort.

1.11 xadmaster.library is Shareware

The xadmaster.library is Shareware with very special conditions. There are no usage restrictions (means this is no Crippleware!), and xadmaster.library use can be implemented into programs without any restrictions.

But the xadmaster.library has a "Shareware-request", which pops up sometimes to remind you, that XAD is Shareware.

Only the end users have to pay shareware fee, if using xadmaster.library. There are 3 forms of payment to get a registered user:

- Send 20 EUR or US \$20 to my snail mail address or use any other more secure transfer system.

My bank can be reached with:

From Germany:

Name: Postbank Berlin
Number: 989732104
BLZ: 100 100 10

From Outside of Germany:

IBAN: DE32 1001 0010 0989 7321 04
BIC (SWIFT-Code): PBNKDEFF

- Make detailed bug reports about 3 currently unknown bugs. I decide whether a bug report is counted or not. Mainly this depends on two

facts:

- was the bug already reported
 - does the description help me to find the bug
- After the first report you will get a partly registered user :-)
- You make an own external client and send me the source and the client for inclusion in next release. Some more are good as well!
- The last form is the most wanted!

- Supply following: name, e-mail, address (multiline), country.
- And to optimize XAD: processors and OS versions (all you have).

For programmers using xadmaster.library in own applications (f.e. in virus scanners):

- It would be fine, if you would tell me suggestions or bugs, as implementing xadmaster.library use may show you some problems.
- You must state above conditions in your distribution, at a place, where users can read it.
- And please do not forget: Most time you are users as well, so think about above conditions.

NOTE: This conditions only cover the xadmaster.library! External clients may have different legal state. For example LZX and Zoom both are Freeware. So expect clients to have any legal state. You need to check this for every client. Normally the version string in the client should tell you what type it is.

1.12 disclaimer

All contained files are provided "as is" without warranty of any kind, either expressed or implied. The entire risk as to the accuracy of the information herein is assumed by you. I do not warrant, guarantee or make any representations regarding the use of included files in terms of correctness, accuracy, reliability, currentness or otherwise. In no event I will be liable for direct, indirect, incidental or consequential damages resulting from any defect in the included files.

This package contains algorithms that may be illegal to use in certain countries, states, counties or districts because of local legislation or patent situation. It is the user's responsibility to determine the legality of such algorithms before using them. The fact that this system contains a certain algorithm does not necessarily mean that it is legal to use that algorithm in all parts of the world. I hereby reject any liability or responsibility for any legal consequences resulting from your use of any algorithms.

Using this software should not violate any copyrights, but if this is the case, please inform me any the related parts either will be removed or changed to a non-violating form. I will not be liable for trouble resulting in usage of such parts.

1.13 history

xadmaster.library 12.0 (12.08.2002)

- Improved xad2lha tool and fixed a bug in compression routine.
- Improved disk handling of xadUnDisk.
- Added PackIt client.
- Support for broken LZX date till 2005 added. Mikolaj's fixed LZX will work till 2027 with XAD now and Dr.Titus patched and broken LZX till 2005.
- Added update of MS-TNEF client.
- Added polish docs. Moved localization files into seperate archive.
- Added updated ASCII client. NOTE: I forgot last time, but ASCII is still BETA and incomplete (but stable enough to be released). Don't wonder if certain types are detected, but not extracted!
- Bug fixes in exe2arc, Zip client, DMS client, Amiga filesystem client and StuffIt client. Thanks Ronald van Dijk and Jürgen Klawitter for the reports.
- Added improved version of CBM-8Bit external.
- Added character set conversion functions into the master library and support of different encodings as well as Unicode. It seems to be very hard to get a xx.1 version of XAD. Originally planned as V11.1 this charset stuff forced version increase to V12.
- Added last (important) missing algorithm to StuffIt client. It should be fully functional now (except of decryption). Also fixed recognition a bit to detect newer StuffIt files with changed header. Thanks Matthew T. Russotto for doing the hard work.
- Added TR-DOS client by AmiS.
- Added news and fixes from Ronald van Dijk.
- Added pattern support for xadUnDisk (and thus also limited multifile support).

xadmaster.library 11.0 (28.12.2001)

- Updated some external clients.
 - Added name and link extension types to Tar client.
 - Updated some internal clients to support V10 features.
 - Updated xadUnTar a lot.
 - Added new protection bit handling needed update to version 11.
 - Added new bits, flags, tags and xadSpecial structure.
 - Added StuffIt and MacBinary support.
 - Added DCS disk archiver.
 - Added support for direct disk input.
 - Added ASCII client done by Stuart Caie.
 - Added CBM-8bit client from Ronald van Dijk.
 - Added GameDemoFS from Ronald van Dijk.
 - Added special clients, which are not added to normal tree. You may install them yourself if you think they are useful for you.
 - Replaced GameDemoFS, Trackmo-DOS, SensiDisk and NiteTimeGameDos with AmigaGameDemoFS from Ronald van Dijk. Delete the clients in your system or use the supplied Install script to delete them.
 - Added support for PMARC (a CP/M archiver by Yoshihiko Mino) to the LhA client.
 - Added support for Archimedes nspark archives to Arc archiver.
 - Fixed LhSFX recognition.
 - The xadUnFile, xadUnFileM and xadUnDisk programs support reading from disks now. This means you can extract filesystem data or create disk-images as well as copy disks with XAD.
 - Added AmosSampBank client from Stuart Caie.
 - Replaced Cpio by a more functional internal version which supports the pax format type (070707) also. Remove the external Cpio file.
-

- Added SFS client from Andrew Bell.
- Added ISO9660 date structure.

xadmaster.library 10.0 (31.03.2001)

- Added MS-TNEF client by Stuart Caie.
- Added MakeSFX client done by Stuart Caie.
- Added support for S-Pack 1.4 exe files.
- Added new version of NiteTimeGamesDos client.
- Added 2 new DMS-SFX forms.
- Fixed bug in PackDev client reported by Konrad Klar.
- Added SQ client. Thanks Ronald van Dijk for format specification.
- Added CP/M date support.
- Added xadAddFileEntry and xadAddDiskEntry functions and thus hook support during scanning. The clients will support this step for step.
- Bumped version to 10.
- Added LU client done by Ronald van Dijk.
- Supports wrong sized DD disk images with Amiga filesystems now.
- Added GDC disk archiver. Thanks Ronald van Dijk for the information.
- Added "destination exists as directory" request.
- Added bugfixed CAB client version.
- Improved Shrink-based clients.
- Added C64 Lha SFX client. Thanks Ronald van Dijk for example files and format description.
- Added support for slightly changed password encryption of newer InfoZip programs.

xadmaster.library 9.1 (05.01.2001)

- Updated LightFileSystem client.
- Bugfix in xadUnTar and Tar client.
- Updated some external clients.
- Fixed Enforcer hits in HA client.
- Added COP client.
- Bugfix in LHA and HA client.

xadmaster.library 9.0 (25.11.2000)

- Added "GZip SFX" client.
 - Added Wrapster and RPM client done by Stuart Caie.
 - Added "NiteTimeGamesDos FS" client done by Ronald van Dijk.
 - Added 68060 version of main library.
 - Added 68020 and 68060 versions of external clients.
 - Splitted distribution into 4 archives.
 - Added support for older LHA-Exe format.
 - Fixed Enforcer hit in xadUnDisk.
 - Fixed LhWarp crash.
 - Internal cleanup for some clients. Removed some double algorithms and added better internal design for some algorithms to make them easier to use from different clients.
 - Added HA client.
 - Added xadUnTar tool.
 - Added Warp client.
 - Added support for SectorLabels (only disk hook allows to use them). Needed to bump the version to 9, because of new tags, data fields. Updated clients to pass SectorLabel information. Updated xadUnDisk to support necessary switch.
 - Added updated SensiDisk client and new PAK and LightFileSystem clients done by Ronald van Dijk.
-

- Fixed bug in Tar client. Thanks Stuart Caie for the hint.
- Updated CAB client from Stuart Caie.

xadmaster.library 8.0 (29.08.2000)

- Added new SensiDisk client version.
- Added "Microsoft FAT FS" filesystem.
- Added ZAP client done by Stuart Caie.
- Added MSA client done by Stuart Caie.
- Added bzip client done by Stuart Caie and updated Version of bzip2.
- Added "CAB" and "CAB MS-EXE" developed by Stuart Caie. This only misses one older algorithm, but Stuart is working on that problem.
- Added new version of xadUnFile and xadUnDisk.
- Added DImp client by Stuart Caie.
- Added Ar client by Stuart Caie. Stuart made really lots of new clients. I'm waiting for other users doing the same. There are so much formats out there. And you become registered user!
- Updated Arc client supports archives with directories now.
- Added input and output stream hooks
- Added xadGetHookAccess() and xadFreeHookAccess().
- Removed entry sorting for filesystem clients to unify interfaces and for speed reasons on large harddisk images.

xadmaster.library 7.0 (20.06.2000)

- Some internal fixes.
- Added new bzip2 client version.
- Updated xadUnFile and xadUnFileM.
- Added multiple filesystem support (XAD_STARTCLIENT tag).
- Added new formats to exe2zip and renamed it to exe2arc. Please delete exe2zip, if it is installed on your computer.
- Added bugfixed RAR-client.
- Added SensiDisk and Trackmo-DOS clients by Ronald van Dijk.
- Added LhWarp client.
- Added Apple Macintosh fork support. This is not required, but may help using transfer archives from and to Apple computers.
- Added "Savage Compressor" client.

xadmaster.library 6.1 (03.05.2000)

- Added PackDisk client.
- Added "Marc's DiskCruncher" client.
- Added CompDisk and Compress clients.
- xad2lha now supports disk archives.
- Added Ace and "Ace MS-EXE" clients.

xadmaster.library 6.0 (01.04.2000)

- Added SOS client done by Stuart Caie.
 - Added xadUnF script to C directory. It allows to call multiarchives a bit easier, but supports extraction and LIST only. Call it "xadUnF <arc> <dest>" or "xadUnF <arc> INFO", where <arc> is the basename of the archive without extensions.
 - Better support for single file crunchers like GZip and BZip.
 - Added Arj and "Arj MS-EXE" clients.
 - Added XADCF_NOCHECKSIZE and new xadLibInfo version 1.4.
 - Added "Zip MS-EXE" client.
 - Some code cleanups. Now the error returns of some archivers help much more.
 - Added BZip2 external client done by Stuart Caie.
 - Updated xadUnFile (1.17) and xadUnDisk (1.7).
 - Added lots of new flags and definitions to improve information handling.
-

- Bug fixes in Zip clients.
- Added LhF client.

xadmaster.library 5.0 (19.02.2000)

- Bug fix in multivolume support and date conversion speedup.
- Added Arc and Zoo archivers.
- Updated xadUnDisk to support FORMAT and disk images. It is version 1.6 now.
- Updated xadUnFileM to support patterns (now version 1.15).
- Added "LhA MS-EXE" client.
- Fixed Installer script.

xadmaster.library 4.0 (18.01.2000)

- Added entry information texts to LhA, Zip, AMPK and "AmigaPlus Unpack". These texts can be displayed using VERBOSE option of xadUnFile.
- Added VERBOSE option to xadUnFile and xadUnFileM.
- The official version now supports keyfiles for registered users.
- Added CrunchDisk client.
- Added xadConvertProtection function.
- Added file extraction from disk images (ADF) and 2 new functions for that purpose.
- Needed to bump version to 4.
- Added AmigaE modules done by Tomasz Wiszkowski
- Updated xadUnfile and xadUnfileM to 1.14 to support new file extraction from disk images.
- Added updated RAR client.

xadmaster.library 3.3 (07.12.1999)

- Updated exe2zip to version 1.1
- Fixed QDOS support for Zip files
- Fixed some errors in Zip client
- Updated xadUnFile and xadUnFileM to 1.12

xadmaster.library 3.1 (02.11.1999)

- Updated xadUnFile and xadUnFileM to 1.11
- Added Zip, "WinZip MS-EXE", GZip clients
- Added exe2zip utility

xadmaster.library 3.0 (27.09.1999)

- File input hook now uses buffered IO which reduces needed time a lot.
- Fixed problem with initialisation of external clients
- Added S-Omni, LhSFX and "PCompress PACK" to external Zoom file.
- Updated xadUnFile and xadUnFileM to version 1.10.
- Added "XPK Archive", S-Pack and Shrink clients.
- Added 020+ Version, as Shrink gets a real speedup with that one.
- Added disturbing Shareware-Requester. Sorry folks, but it seems to be necessary.
- Added xadStripInfo system, auto data seek for unarchiving and new tag hook access function.
- Updated xadLibInfo tool.

xadmaster.library 2.2 (18.07.1999)

- Added LhA and LhASFX clients
- Updated xadUnFile utility to 1.7 and returned to old style user interface
- Added xadUnFileM utility with new multifile archive interface of last release.

xadmaster.library 2.1 (29.06.1999)

- some fixes for DMS archiver
- fixed bug in Zoom client
- added RAR archiver done by Mikolaj Calusinski
- added new memory allocation function to master library
- added memory copy function to master library
- Added multiple input file support to master library and xadUnFile tool. The xadUnFile tool now explicitly needs DEST and FILE keywords and all extract files must be given using only one pattern. This is due to a limitation of ReadArgs function.
- added renaming feature in case file exists to xadmaster.library and xadUnFile tool
- added master internal free stuff for client data and fixed xadLibInfo to support that new flags

xadmaster.library 1.8 (16.03.1999)

- updated xadUnDisk and xadUnFile tools to version 1.4
- added new "Amiga Plus Unpack" archiver
- added new "AmiPack" archiver
- some little bug fixes and documentation cleanup

xadmaster.library 1.7 (15.02.1999)

- added internal "PackDev" and "MXM-Simple Archive SFX" clients
- added extern Zoom client including "Zoom", "Zoom 5" and "LhPak SFX"
- fixed bug in disk hook
- updated xadUnDisk tool to version 1.3
- LZX client got an external Freeware client

xadmaster.library 1.6 (08.02.1999)

- first official full working release

1.14 author

Please contact me:

```
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* phone:                    * pgp key:            *
* GERMANY +49 (0)3594/706666 * get from WWW pages or key servers *
*****
```

1.15 homepage

The XAD system also has its own homepage at

<http://www.dstoecker.de/xadmaster.html>

and an own mailinglist at

<http://groups.yahoo.com/group/xad/>

The homepage contains some information about XAD system and also a link to the mailinglist and other XAD resources.

To send mail to the list use the address xad@yahoogroups.com or use the web interface.

1.16 thanks

There are some people I want to thank for their work (in no order):

Georg Hörmann

The former author of `xfdmaster.library`. This library is an interface for uncrunching files and gave me the idea to produce `xadmaster.library`.

Urban Dominik Müller

The former author of `xpkmaster.library`. This library inspired me a lot especially in design of `xadmaster.library`. Thanks also that he gave me the sources to improve `xpkmaster.library`.

Special thanks for managing Aminet and keeping the Amiga community alive.

Andre R. de la Rocha

The author of `xDMS`. Thanks for his work and the free sources, which made the DMS client a lot easier (but it was still a hard job).

An "Anti-Thanks" to the later DMS authors for producing such an incredible nasty format. Especially DMS 2.04 is a pain.

Ralf Babel

For his "Amiga Guru Book" which helped me a lot during the last 3 years. And also thanks for the questions he answered (sometimes with a short mail "See Guru Book page xxx" :-)

David Tritscher, Dan Fraser

For making the `unlzx` utility (and the structure comment at end of source code) which helped me to make the `LZX` client.

Olaf Barthel

The author of Zoom disk archiver for supplying me the source codes of Zoom 5.4, to make the Zoom client possible.

Mikolaj Calusinski

For doing the first external client beside my standard clients. He also got first registered user. And a big thank for his help and really good ideas how to improve the XAD system.

Brad Rogers

For beeing the second registered user and the first one paying the registration fee.

The InfoZip guys

For their InfoZip project and the sources which allowed me to make Zip client. It is impossible to state all the persons here, as this would double the file size. Check <http://sunsite.org.uk/packages/infozip/> or

nearly any other big ftp server for their work.

Herve Dupont

For french translation. This remark is three releases to late, but I did not forget you. :-)

Andrew Bell

For giving me the final cause implementing file extraction from ADF files (disk images). He also sent me source of his UnADF tool to reduce work. And finally for making the wonderful GUI called Voodoo-X.

Stuart Caie

For doing a lot stuff around XAD and XFD, especially making new clients. Check his homepage under <http://zap.to/kyz/> to see what he made.

Ronald van Dijk

For making lots of new clients for XAD and XFD systems and also for helping to improve stability and reliability of both systems. Visit his homepage at <http://www.amiga-stuff.com/> to find out about his Amiga related work.

Matthew T. Russotto

For writing the CAB Quantum and StuffIt Arsenic extraction algorithms. This saved me and Stuart a lot of work. Hopefully we will see some more work like this in future. ;-)

Mariusz Danilewicz and Daniel Sternik

For Polish translation.

And another person which should not be forgotten:

fIRE^ROYAL

Well this clever guy distributes a crack skipping my keyfile request. Still waiting for someone to make a keyfile generator as this will need some brain work. Skipping the request can do nearly every dumb boy. I was able to do that when I was 10.
