ARCHandler

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                                  ARCHandler 2.1
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                   Disclaimer

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                    Author
                             When I'm sad she comes to me
                   with a thousand smiles
                    she gives to me free

              It's alright, it's alright she says,
                  Take anything you want from me,
```

anything.

Jimi Hendrix

1.2 ARCHandler: Disclaimer

Disclaimer

With this document I make no warranties or representations, either
expressed or implied, with respect to the program described herein. The
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or consequential damages resulting from any claim arising out of the use of
the program or the information presented herein, even if I have been
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1.3 ARCHandler: Shareware Notice

ARCHandler is Shareware

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long as you don't ask any money for it, except perhaps a nominal fee for
copying. If you use this package on a regular base, you should send
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a
contribution of 500 BEF or USD 20. Send money by International Money Order,
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When you send your registration fee you will be send a written
acknowledgment including your personal key file. This file is your private
key file, you are not allowed to copy it, except for backup purposes.

If you can be reached via EMail (or FIDO) please include your address, this
makes it easier (and quicker?) to send you your keyfile.

Magazines that want to include ARCHandler on their coverdisk(s) should also
register ARCHandler (one registration fee) and send one free copy of the
magazine (including disks) to the
author
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The package is Copyright © Rafael D'Halleweyn, All Rights Reserved. The
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This package should not be spread in any other form than an LhA (or
equivalent) archive and all parts of it should be spread together. The
package may not be altered in any way and cannot be used for commercial
purposes without the prior written permission of the author.

Distribution of the program on any medium (CD, floppy, ...) in such a way

that it is ready to be used (eg. as a front-end for a CD-ROM) requires the
permission of the
                author
                       .

The installation-script ('Install') and the extra commands it uses
('FindCommand', 'PrefLanguage' and 'StartARC') are also copyrighted and
can't be used in any other project/archive without the prior written
permission of the author.

1.4 ARCHandler: Introduction

                Introduction to ARCHandler

                Archives
                  (such as
                LhA
                  , Zip, Zoo, Tar, ...) are very easy to store and
move large amounts of files. However, if you wish to use the files
contained in the archive you always have to extract the files first.
Secondly, to easily browse through the archive, you have to extract the
whole archive.

Wouldn't it be easier if you could treat archives just like directories:
move to a directory, look which files are in the directory and possibly use
one of those files.

I have already heard a lot of suggestions in this direction, so the idea is
neither mine nor is it original. But I've never seen an implementation, so
I tried to make my own and this is the result.

Currently the ARCHandler only supports
                lha
                -archives.

Remember ARCHandler is shareware.

1.5 ARCHandler: What is an archive?

                In this text the word archive is used to indicated a group of ←
                  files, that
are stored in one big file, possibly also containing the file-structure of
the original (directories) and maybe using compression to store the files.

Archives are mainly used to move large amounts of data from one computer to
another (via disk/modem/ftp/...). Archives are also an easy way to store
that data.

ARCHandler currently only supports
                lha
                -archives.

1.6 ARCHandler: What is an lha-archive?

LhA is probably the most widely used archiver on the Amiga. ←
It uses a
Lempel-Ziv sliding-window (LZ77) together with dynamic or static Huffman
coding (LZH) the size of the files in the
archive
. Several other
LZH-archives exist for the Amiga (LhArcA, LhArc, LZ, LhEx, ...) and for
UNIX, MS-DOS, Macintosh and Atari machines.

1.7 ARCHandler: Requirements

Requirements to use ARCHandler

ARCHandler currently requires an Amiga running Workbench/Kickstart 2.04 or
higher, it also needs the following libraries (they should be in your LIBS:
directory): 'asl.library' and 'commodities.library'. The program will also
use the 'locale.library' when it is available (Workbench 2.1 and up). To
use the
online-help
you also need the 'amigaguide.library'.

To extract files from
lha-archive
, ARCHandler uses the 'LhA' command (©
Stefan Boberg), both the registered and evaluation version should work.

To test the handler, a few lha-archives can also be very handy :).

1.8 ARCHandler: Starting

Starting ARCHandler

You can place ARCHandler anywhere you want, but if you change the position
of the program, you should always check if it is still able to access the

FILESDIR
-directory (if you installed ARCHandler with the included
installation script this should be no problem).

ARCHandler can be started from the Workbench or from a Shell. You can use
different
arguments
to change the settings of ARCHandler.

If you want to start ARCHandler on every boot-up of your computer you could
place the program in the 'WbStartup' drawer of your startup-partition.

1.9 ARCHandler: Using

Using ARCHandler

ARCHandler manifests itself in three different ways:

the filesystem
(access files and archives)

the graphical user interface
(change the settings)

the commodity
(pop up user interface, flush archives)

1.10 ARCHandler: FileSystem

The ARCHandler FileSystem

You should be able to use the filesystem (volume and DOS-device) as any other Amiga-filesystem (like the one on your floppy/harddisk). The root-directory of the filesystems contains all the volumes that can be accessed at that time. When you enter one of these volumes you will see all the normal files that are on that volume.

The big difference with the original filesystem is that all the archives are now represented as directories (they can even have there own icon, see

Workbench support
). Inside these archive-directories you will find all the files that are in the archive (the may be placed in subdirectories of the archive-directory).

All the files (real and those in the archives) and directories (real, the volumes and the archives) on the filesystem can be used as normal files and directories.

The ARCHandler filesystem has two parts: the DOS-device and the volume. The DOS-device (this just like 'DF0:') can be used to access the filesystem from filerequester, directory utilities. The volume (like a disk 'Stuff' in the device 'DF0:') can be used to access the filesystem from the Workbench.

Since version 2.0a it is also possible to access volumes through the names of devices or assigns. These names are always expanded to the volume name (and path for assigns). Device and assigns are not visible in the root of the filesystem. For example 'CD ARC:DF0' will change the current directory to 'Archives:Disk_in_drive_0', or 'List ARC:C' gives the directory contents of 'Archives:Workbench/C'.

Please note that small changes in an archive (e.g. renaming a directory) can take a very long time: be patient.

Some actions may work a little different:

Delete

MakeDir

Rename

1.11   ARCHandler: Delete

  ACTION_DELETE_OBJECT, Delete

When you delete the last file in a directory of an archive, it is possible
that the archive no longer contains a reference to the directory. The next
time that you use the archive this directory will be gone.

If you want to delete an entire archive it is better to delete the archive
on the normal volume. If you use ARCHandler to delete it, it will take a
lot of time: first all the files in the archive will be deleted and after
that the archive itself will be deleted. If you really want to delete an
archive through ARCHandler you should be very patient.

1.12   ARCHandler: MakeDir

                ACTION_CREATE_DIR, MakeDir

You can use MakeDir to create new archives. ARCHandler decides if a new
directory will become a new archive by looking at the directory's name
(even if the
                Archive Recognition
                 cycle gadget is set to 'File Contents').

1.13   ARCHandler: Rename

  ACTION_RENAME_OBJECT, Rename

Renaming a directory in an archive can take a lot of time: if the directory
contains a lot of files and/or subdirectories, the name of the directory
will have to be changed for each of these files/directories. Every change
may alter the size of the archive, if this happens a large part of the
archive has to be moved (this may happen for every file/directory).

When you move the last file in a directory of an archive to another
directory, it is possible that the archive no longer contains a reference
to the directory. The next time that you use the archive this directory
will be gone.

1.14   ARCHandler: Graphical User Interface

                    The ARCHandler Graphical User Interface

ARCHandler has a graphical user interface (with standard GadTools gadgets)
that allows you to change the ARCHandler settings. All the windows (and
gadgets) that the program opens are font and locale sensitive. The
ARCHandler User Interface tries to stick as closely as possible to the
'Amiga User Interface Style Guide'.

The user interface contains multiple windows and requesters. The different
windows never block each other, it is not because another window is opened
that the previous window can no longer be used (they are non-modal). The
requesters that pop up when you use one of the popup-gadgets (these gadgets
have the imagery of an arrow pointing down), do block the window that they
originated from.

All   the   windows   have
                    context sensitive help
                    : position the pointer above
the window or gadget and press the 'Help' key. When a string-gadget is
active, you can get help on the attribute you're editing by pressing
'Help'. You can also receive help by pressing 'Help' when a button-gadget
is depressed (this also works when the gadget is depressed by using the
buttons shortcut). Menus also have context sensitive help, select the menu
item you want more information about, but don't release the right mouse
button, now press help.

The user interface is fully keyboard controlable. The shortcuts for the
gadgets appear in the text of the gadget, the underscored character
represents the shortcut-key. The gadget that has an extra dark border
around its button can also be activated with the 'Return' key. The 'Esc'
key is always a safe way out.

When the the underscored character is a diacretic character or some other
character that has to be generated with multiple key presses and/or
multiple qualifiers (like Shift, Ctrl, Alt), you should only use the last
key and you don't need to use the qualifiers. For example, on a french
keyboard, the gadget '_Élève' can be accessed with the 'é'/'2' key; on a
usa keyboard you would have to press 'e'.

All gadgets react immediatly when they are activated with the keyboard,
except for the button gadgets. The button gadgets will change there state
to indicate that they are selected, the gadget will only react when the key
is released. You can cancel the button gadget when it is already selected,
by pressing an (extra) qualifier.

The user interface also uses popup-gadgets. When you press one of these a
requester will appear, that request some information from you. These
popup-gadgets don't have there own shortcut-key, but you can select these
gadgets by pressing the shortcut-key of the gadget that they are connected
to plus the 'Control' or 'Ctrl' key.

Some windows contain slider gadgets (they allow you to choose a value in a
given range). The normal shortcut-key of these gadgets adds one to the
value of the gadget. When you use the same key together with a 'Shift' key
the value will decrease.

Cycle gadgets allow you to choose one from several options. You can also
'cycle' through the different options by using the gadgets shortcut-key.
Together with the 'Shift' key the gadget will cycle backwards through its
options.

Currently ARCHandler can be used in Dansk (Danish), Deutsch (German),
English, Español (Spanish), Français (French), Italiano (Italian), Svenska
(Swedish), Suomi (Finnish), Português (Portuguese) and Nederlands (Dutch).

1.15 ARCHandler: Commodity

The ARCHandler Commodity

The ARCHandler Commodity Interface can be used to pop up the

graphical user interface
, with the 'Exchange' program or with the
Hot Key
.

You can also use the 'Exchange' program to quit the program (note that the
program may not always be able to quit).

The commodity interface can also be used to flush all unused
archive-lists
from memory.

You should also note that ARCHandler can not be made inactive: changing the
'Active'/'Inactive' state of ARCHandler with the 'Exchange' program has no
effect. But when ARCHandler is trying to quit it will inactivate its
commodity. At that point ARCHandler can be reactivated by pressing the
hotkey (

CX_POPKEY
,
HOTKEY
) or by activating the commodity.

1.16 ARCHandler: Arguments

Arguments

When ARCHandler is started you can specify the settings of the program by
specifying some arguments. ARCHandler will always try to read the tooltypes
in the program's icon (even when started from a Shell). When ARCHandler was
started from a Shell it will also read the specified arguments from the
commandline (with ReadArgs()), overriding the arguments specified in the
icon.

ARCHandler recognizes the following arguments:

CX_POPUP

                    CX_POPKEY

                    CX_PRIORITY

                    FLUSHKEY

                    DEVICENAME

                    VOLUMENAME

                    PRIORITY

                    SCANDELAY

                    FILESDIR

                    RECOGNITION

                    TEMPDIR

                    BUFFERS

                    KEEPTIME

                    LHACOMMAND

                    IGNOREVOLUMES
                    obsolete:

                    ONLYEXTENSION
                    When you use ARCHandler from the Workbench, you can change or ←
                        add these
arguments by changing or adding the Tool Type (with the same name) in the
window that appears when you select the 'Information...' menu item.

When you use ARCHandler from a Shell you can also use the Tool Types. But
the arguments you specify on the commandline overwrite the values in the
tooltypes. ARCHandler uses this template:

  CX_POPUP/K,CX_POPKEY/K,CX_PRIORITY/K/N,FLUSHKEY/K,DEVICENAME=DEV/K,
  VOLUMENAME=VOL/K,PRIORITY/K/N,SCANDELAY/K/N,FILESDIR/K,
  RECOGNITION=RECOG/K/N,TEMPDIR/K,BUFFERS/K/N,KEEPTIME/K/N,
  LHACOMMAND=LHA/K,IGNOREVOLUMES/K,ONLYEXTENSION=ONLYEXT/S

ARCHandler tries to save its settings in the program's icon as Tool Types
(even when started from a Shell). The icon is thus used as the
configuration file.

1.17 ARCHandler: CX_POPUP argument

                      CX_POPUP

With CX_POPUP you can choose if ARCHandler will pop up its
                Main Window

when it is started. You should specify 'YES' or 'ON' if you do ←
want this
window to be opened. Otherwise you have to use 'CX_POPUP=NO' or
'CX_POPUP=OFF'.

This argument defaults to 'YES'.

This setting can also be changed with the
Pop Up
gadget in the

Commodity Preferences
window.

1.18   ARCHandler: CX_POPKEY argument

CX_POPKEY

With CX_POPKEY you specify the key combination that can be used to pop up
ARCHandler's
Main Window
when the program is already running. This
argument should be a standard Commodities key combination as described in
'Acceptable Key Combinations' of the 'Commodities Drawer' section of the
'Workbench User's Guide'.

When you specify an empty string for this argument, ARCHandler won't
generate a pop up key.

This argument defaults to 'Ctrl Alt a' on Workbench 2.1 and higher, on
Workbench 2.04 'Control Alt a' is used.

This setting can also be changed with the
Hot Key
gadget in the

Commodity Preferences
window.

1.19   ARCHandler: CX_PRIORITY argument

CX_PRIORITY

With CX_PRIORITY you pick the priority of the ARCHandler Commodity in the
chain of all the running commodities. This argument should be a number
between -10 and 10.

This arguments defaults to 0.

This setting can also be changed with the
Priority
gadget in the

                    Commodity Preferences
                     window.

1.20   ARCHandler: FLUSHKEY argument

                    FLUSHKEY

With FLUSHKEY you specify the key combination that can be used to flush all
the unused
                    archive-file-lists
                     from memory. This argument should be a
standard Commodities key combination as described in 'Acceptable Key
Combinations' of the 'Commodities Drawer' section of the 'Workbench User's
Guide'.

When you specify an empty string for this argument, ARCHandler won't create
a flush key.

This argument defaults to 'Ctrl Alt f' on Workbench 2.1 and higher, on
Workbench 2.04 'Control Alt f' is used.

This setting can also be changed with the
                    Flush Key
                      gadget in the

                    Commodity Preferences
                     window.

1.21   ARCHandler: DEVICENAME argument

                    DEVICENAME

The DEVICENAME argument can be used to specify the name of the ARCHandler

                    DOS-device
                     . This is the name that will appear in the 'Unit' field of the
output of the 'Info' command. This argument should be a string, without a
colon (':')! (You can compare this name with the name 'DF0:' for the first
internal floppy drive.)

This argument defaults to 'ARC'.

This setting can also be changed with the
                    Device Name
                      gadget in the

                    Device Preferences
                     window.

1.22   ARCHandler: VOLUMENAME argument

                        VOLUMENAME

With the VOLUMENAME argument you can choose the name for the ARCHandler

                volume
                . This is the name that will appear in the Workbench. This ←
                   argument
should be a string, without a colon (':')! (You can compare this name with
the name of a floppy 'Stuff' inserted in any floppy drive.)

This argument defaults to 'Archives'.

This setting can also be changed with the
                Volume Name
                 gadget in the

                Device Preferences
                 window.

1.23   ARCHandler: PRIORITY argument

                        PRIORITY

The PRIORITY argument is used to specify the priority of the ARCHandler
process. This process handles all the
                filesystem
                 actions and also handles
the
                windows
                . This argument should be a number between -5 and +15. By
specifying a higher number, the filesystem will have a relative faster
response time on a busy system.

Normally, filesystems have a higher priority then other processes because
other processes have to wait on these filesystems. This argument defaults
to 7.

Note that this argument does not change the extraction time of archives. To
extract archives, ARCHandler generates a new process at priority zero.

This setting can also be changed with the
                Task Priority
                 gadget in the

                Device Preferences
                 window.

Note that PRIORITY and
                CX_PRIORITY
                 are used to change two different
properties!

1.24   ARCHandler: SCANDELAY argument

```
              SCANDELAY
```

Because the ARCHandler
                filesystem
                 has all the volumes in its root volume,
it has to scan the AmigaDOS list of volumes. Because new volumes can be
created or inserted, or the name of the current volumes can be changed,
this scanning has to be repeated. Normally, when a new volume is inserted,
its filesystem will generate a DISKINSERTED event (or DISKREMOVED when a
volume is removed). ARCHandler will also catch these events and then start
to scan the AmigaDOS volume list.

This argument should be a number between 1 and 9. This specifies the number
of seconds between each scan. This argument defaults to 4 seconds.

This setting can also be changed with the
                Scan Delay
                 gadget in the

                Device Preferences
                 window.

1.25   ARCHandler: FILESDIR argument

```
              FILESDIR
```

To make it easy to access files from the
                Workbench
                 , ARCHandler adds some
extra files to the filesystem. These files are normally stored in the
directory 'PROGDIR:ARCFiles' ('PROGDIR:' is the directory where ARCHandler
is placed). With this argument you can specify another directory.

All the files that are placed in this directory can be accessed from the
root of the filesystem. Only 'Disk.info' and '.backdrop' will be visible
(when you examine the root 'List ARC:'). You can use this to add a
'Node.rinfo' file, for the ParNET package.

By default ARCHandler uses the 'PROGDIR:ARCFiles' directory.

This setting can also be changed with the
                Extra Files
                 gadget in the

                Device Preferences
                 window.

1.26   ARCHandler: RECOGNITION argument

RECOGNITION

With the RECOGNITION argument you select the method that ARCHandler will use to recognize archives. This argument is a number between 0 and 2 with the following meaning:

0: 'Filename only'
   ARCHandler will only look at the name of the files to recognize an archive (eg. an
              LhA-archives
               has a file-extension '.lha' or '.lzh').

   This will give the fastest access to directories. But it can make the wrong decision.

1: 'Name and Contents'
   ARCHandler first checks the name of file (like in 'Filename only'), after that it opens the file to see if it is really an archive.

   This will always make the right decision (except corrupt archives), but it takes much longer to scan a directory: it will first check the filename and if that matches it will open the file.

2: 'File Contents'
   ARCHandler will only look at the contents of a file to decide if it is an archive.

   The file will always be opened (without looking at the filename). This allows you to give any name to the archive. Since all the files in a directory have to be opened it takes 'very' long to scan a directory.

By default ARCHandler uses method 1: 'Name and Contents'.

This argument overrides the method of archive recognition selected by the

              ONLYEXTENSION_ARG
              This setting can also be changed with the
              Archive Recognition
               gadget in
the
              Archive Preferences
               window.

1.27 ARCHandler: TEMPDIR argument

TEMPDIR

When you (or a program) open a file in an archive, this file is extracted and temporarily stored in a directory. When the file is closed the extracted file is deleted from the directory.

With the TEMPDIR argument you can specify which directory ARCHandler should use to store these temporary files. By default ARCHandler uses 'T:'. When you place this directory on the 'Ram Disk:' files will be extracted faster

(by default 'T:' is placed on 'Ram Disk:').

This setting can also be changed with the
                Temporary Files
                 gadget in the

                Archive Preferences
                 window.

1.28   ARCHandler: BUFFERS argument

                BUFFERS

Whenever an archive is accessed, ARCHandler makes a list of all the files
and directories in that archive (
                archive-file-list
). This list is freed
when this information is no longer needed. Filerequesters and directory
utilities tend to lock a directory, scan its contents and then free the
lock. When one of the subdirectories is selected, the filerequester or
directory utility will then lock that subdirectory and scan it.

To prevent ARCHandler from remaking the list of files and directories in an
archive on each archive access, a certain number of unused archive-lists
are kept in memory (in a least-recently-used cache).

With the BUFFERS argument you specify the number of unused archive-lists
that are kept in memory. This should be a number between 0 and 9. It
defaults to 2.

This setting can also be changed with the
                Buffers
                 gadget in the

                Archive Preferences
                 window.

1.29   ARCHandler: KEEPTIME argument

                KEEPTIME

When an extracted archive is closed it isn't immediatly deleted. When the
same file is opened again the archive doesn't have to be reextracted.

With the KEEPTIME argument you can specify the time in seconds ARCHandler
should wait before it deletes an extracted file after it is closed.

By default the extracted files are kept 2 seconds after they are closed.

This setting can also be changed with the
                Keep Files
                 gadget in the

```
                    Archive Preferences
                       window.
```

1.30   ARCHandler: LHACOMMAND argument

```
              LHACOMMAND
```

With the LHACOMMAND you can specify the position of the 'LhA' command.
Normally ARCHandler will find 'LhA' if it is placed in one of the
directories that C: is assigned to. If 'LhA' is not in such a drawer, you
can specify the position with this argument.

When you use the included install script, it will search for the position
of 'LhA' and write in in ARCHandlers tooltype.

By default ARCHandler uses 'LhA', this will find 'LhA' if it is placed in
one of the directories that C: is assigned to.

This argument can't be changed with the
                graphical user interface
                , but when
ARCHandler is installed the installation script will set this argument.

1.31   ARCHandler: IGNOREVOLUMES argument

```
                IGNOREVOLUMES
```

With this argument you can specify the volumes that should not be placed in
the filesystem's root directory.

This argument can't be changed with the
                graphical user interface
                  .

1.32   ARCHandler: ONLYEXTENSION option

```
                ONLYEXTENSION
```

This option is obsolete and superseded by the
                RECOGNITION
                 argument.

ARCHandler still understands this argument, but RECOGNITION overrides it.

1.33   ARCHandler: Windows

ARCHandler Windows

The ARCHandler
                Graphical User Interface
                 consists of three windows and
three different kinds of requesters:

                Main Window

                Device Preferences Window

                Archive Preferences Window

                Commodity Preferences Window

                Message Requesters

                Directory Requesters

                Key Combination Requesters
                The windows don't block each other: you're able to use several ←
                    windows at
the same time. The requesters do block the window the originated from, this
window will receive a standard wait-pointer.

1.34 ARCHandler: Main Window

                Main Window

From the Main Window you can access the other windows. This window can be
opened by pressing the hot key;
                CX_POPKEY
                ,
                HOTKEY
                .

  preview

                    Preferences

                 Device...

                Archive...

                Commodity...

                Flush

                About...

                Hide

                Quit

```
                Menus:

  Project

                About...

                Help
                     --------

                Hide

                Quit
```

1.35 ARCHandler: MainWindow/Device gadget

```
                  Device...
```

This gadget opens the
                Device Preferences
                 window.

1.36 ARCHandler: MainWindow/Archive gadget

```
                  Archive...
```

This gadget opens the
                Archive Preferences
                 window.

1.37 ARCHandler: MainWindow/Commodity gadget

```
                  Commodity...
```

This gadget opens the
                Commodity Preferences
                 window.

1.38 ARCHandler: Main Window/Flush gadget

```
                  Flush
```

You can use this gadget to flush unused
                archive-lists
                 from memory.

1.39   ARCHandler: Main Window/About gadget, About menu item

                    About...

This will open a
                message requester
                    that gives some information about
ARCHandler. It will tell you which language ARCHandler is using and by whom
this version is registered.

1.40   ARCHandler: Main Window/Hide gadget, Hide menu item

   Hide

When this gadget/menu item is used ARCHandler will try to close all its
windows. It is possible that some windows can not be closed because they
are blocked by a requester.

1.41   ARCHandler: Main Window/Quit gadget, Quit menu item

                  Quit

With this gadget/menu item you can
                quit
                 ARCHandler. ARCHandler will first
check if nobody is still using ARCHandler, after that it will try to close
all its windows.

1.42   ARCHandler: Main Window/Help menu item

                  Help

When you select this menu and
                context sensitive help
                 is available you will
get some more information about the
                Main Window
                 .

1.43   ARCHandler: Device Preferences

               Device Preferences Window

The Device Preferences Window is used to change several device settings.

   preview

```
      Device Name
                  ARC
                     Task Priority
                    #
                  7
      Volume Name
                  Archives
                   Volume Scan Delay
                   #
                  4 s
      Extra Files
                  PROGDIR:ARCFiles
                v

                  Save

                  Use

                  Cancel
                Menus:

  Project

                  Help
                    Edit

                  Reset To Defaults

                  Last Saved

                  Restore
```

1.44 ARCHandler: Device Preferences/Device Name gadget

                Device Name

With this string gadget you can change the name of the ARCHandler
DOS-device. The name of the DOS-device will only be changed when ARCHandler
is restarted, so you should use
                Save
                 when you change this.

When the settings are saved the Device Name is stored in the
                DEVICENAME
                argument.

1.45 ARCHandler: Device Preferences/Volume Name gadget

                Volume Name

With this string gadget you can change the name of the ARCHandler volume.
When you

Use
this new name, this has the same effect as the 'Relabel'
command.

When the settings are saved the Volume Name is stored in the
VOLUMENAME
argument.

1.46   ARCHandler: Device Preferences/Task Priority gadget

Task Priority

With this slider gadget you select the priority of the ARCHandler process.
This process handles all the
filesystem
actions and also handles the

windows
. The priority should be a number between -5 and +15. By
specifying a higher number, the filesystem will have a relative faster
response time on a busy system.

Normally, filesystems have a higher priority then other processes because
other processes have to wait on these filesystems.

Note that this priority does not change the extraction time of archives. To
extract archives, ARCHandler generates a new process at priority zero.

When the settings are saved the priority is stored in the
PRIORITY
argument.

1.47   ARCHandler: Device Preferences/Volume Scan Delay gadget

Volume Scan Delay

Because the ARCHandler
filesystem
has all the volumes in its root volume,
it has to scan the AmigaDOS list of volumes. Because new volumes can be
created or inserted, or the name of the current volumes can be changed,
this scanning has to be repeated. Normally, when a new volume is inserted,
its filesystem will generate a DISKINSERTED event (or DISKREMOVED when a
volume is removed). ARCHandler will also catch these events and then start
to scan the AmigaDOS volume list.

This slider gadget is used to select the number of seconds between each
AmigaDOS volume list scan.

When the settings are saved the scan delay is stored in the
SCANDELAY
argument.

1.48   ARCHandler: Device Preferences/Extra Files gadget

                   Extra Files

To   make   it easy to access files from the
                 Workbench
                  , ARCHandler adds some
extra files to the filesystem.

You   can   use   the   Extra   Files string-gadget to change this directory. By
pressing   the   popup-gadget   behind   the   string-gadget   you   can   use   the

                 Directory Requester
                  to pick this directory.

When   the   settings   are   saved   the extra files directory is stored in the

                 FILESDIR
                  argument.

1.49   ARCHandler: Device Preferences/Save gadget

    Save

You   can   use this gadget to permanently save the Device Preferences. These
settings will be saved in the tooltypes of the ARCHandler-icon.

1.50   ARCHandler: Device Preferences/Use gadget

                 Use

When   you   use   this gadget to close the
                 Device Preferences window
                  the new
settings will be used but not saved.

1.51   ARCHandler: Device Preferences/Cancel gadget

                 Cancel

When you select this gadget to leave the
                 Device Preferences window
                  all the
changes that you made to the Device Preferences will be discarded. The same
thing happens when you use the windows close-gadget.

1.52   ARCHandler: Device Preferences Window/Help menu item

                        Help

When you select this menu and
                context sensitive help
                 is available you will
get some more information about the
                Device Preferences Window
                    .

1.53   ARCHandler: Device Preferences Window/Reset To Defaults menu item

                        Reset To Defaults

When you select this menu item, the values in the gadgets of the

                Device Preferences Window
                 will be changed to the default values. This will
not change the settings, only the values in the gadgets.

The defaults for the Device Preferences are:

                Device Name
                "ARC"

                Volume Name
                "Archives"

                Task Priority
                5

                Volume Scan Delay
                4 sec

                Extra Files
                "PROGDIR:ARCFiles"

1.54   ARCHandler: Device Preferences Window/Last Saved menu item

                        Last Saved

This will read the settings that were last saved on place those values in
the gadgets of the
                Device Preferences Window
                 . This will not change the
settings, only the values in the gadgets.

1.55   ARCHandler: Device Preferences Window/Restore menu item

                  Restore

This will place the settings that are currently in use, in the gadgets of
the
                  Device Preferences Window
                  . This will not change the settings, only the
values in the gadgets.

1.56   ARCHandler: Archive Preferences

                  Archive Preferences Window

The Archive Preferences Window is used to change several archive settings.

  preview

    Archive Recognition
                  Name and Contents
                        Buffers
                   #
                  2
        Temporary Files
                   T:
                  v
                   Keep File
                   #
                  2 sec

                   Save

                   Use

                   Cancel
                  Menus:

  Project

                  Help
                    Edit

                  Reset To Defaults

                  Last Saved

                  Restore

1.57   ARCHandler: Archive Preferences/Archive Recognition cycle gadget

                         Archive Recognition

With the Recognition cycle gadget you can select the method that ARCHandler
uses to recognize archive.

'Filename only'
    ARCHandler will only look at the name of the files to recognize an
    archive (eg. an
                LhA-archives
                 has a file-extension '.lha' or '.lzh').

    This will give the fastest access to directories. But it can make the
    wrong decision.

'Name and Contents'
    ARCHandler first checks the name of file (like in 'Filename only'),
    after that it opens the file to see if it is really an archive.

    This will always make the right decision (except corrupt archives), but
    it takes much longer to scan a directory: it will first check the
    filename and if that matches it will open the file.

'File Contents'
    ARCHandler will only look at the contents of a file to decide if it is
    an archive.

    The file will always be opened (without looking at the filename). This
    allows you to give any name to the archive. Since all the files in a
    directory have to be opened it takes 'very' long to scan a directory.

This option isn't used when you try to create a new archive. ARCHandler
will always look at the name of the new directory to decide if it will
become an archive.

When the settings are saved the state is stored in the
                RECOGNITION
                argument.

1.58   ARCHandler: Archive Preferences/Temporary Files gadget

                         Temporary Files

When you (or a program) open a file in an archive, this file is extracted
and temporarily stored in a directory. When the file is closed the
extracted file is deleted from the directory.

With the Temporary Files string-gadget you can specify which directory
ARCHandler should use to store these temporary files. By pressing the
popup-gadget behind the string-gadget you can use the
                Directory Requester
                to pick this directory.

When the settings are saved the temporary files directory is stored in the

```
            TEMPDIR
             argument.
```

1.59   ARCHandler: Archive Preferences/Buffers gadget

```
            Buffers
```

Whenever an archive is accessed, ARCHandler makes a list of all the files
and directories in that archive (
                archive-file-list
). This list is freed
when this information is no longer needed. Filerequesters and directory
utilities tend to lock a directory, scan its contents and then free the
lock. When one of the subdirectories is selected, the filerequester or
directory utility will then lock that subdirectory and scan it.

To prevent ARCHandler from remaking the list of files and directories in an
archive on each archive access, a certain number of unused archive-lists
are kept in memory (in a least-recently-used cache).

With this slider gadget you select the number of unused
                archive-file-lists
                that are kept in memory.

When the settings are saved the number of archive-file-lists is stored in
the
                BUFFERS
                 argument.

1.60   ARCHandler: Archive Preferences/Keep Files gadget

```
            Keep Files
```

When an extracted archive is closed it isn't immediatly deleted. When the
same file is opened again the archive doesn't have to be reextracted.

With this slider gadget you can specify the time ARCHandler should wait
before it deletes an extracted file after it is closed.

When the settings are saved the number of seconds is stored in the

                KEEPTIME
                 argument.

1.61   ARCHandler: Archive Preferences/Save gadget

```
  Save
```

You can use this gadget to permanently save the Archive Preferences. These
settings will be saved in the tooltypes of the ARCHandler-icon.

1.62   ARCHandler: Archive Preferences/Use gadget

                    Use

When you use this gadget to close the
                Archive Preferences window
                    the new
settings will be used but not saved.

1.63   ARCHandler: Archive Preferences/Cancel gadget

                    Cancel

When you select this gadget to leave the
                Archive Preferences window
                    all
the changes that you made to the Archive Preferences will be discarded. The
same thing happens when you use the windows close-gadget.

1.64   ARCHandler: Archive Preferences Window/Help menu item

                    Help

When you select this menu and
                context sensitive help
                    is available you will
get some more information about the
                Archive Preferences Window
                    .

1.65   ARCHandler: Archive Preferences Window/Reset To Defaults menu item

                    Reset To Defaults

When you select this menu item, the values in the gadgets of the

                Archive Preferences Window
                    will be changed to the default values. This
will not change the settings, only the values in the gadgets.

The defaults for the Archive Preferences are:

                Archive Recognition
                "Name and Contents"

                Temporary Files
                "T:"

```
                          Buffers
                          2

                          Keep File
                          2 sec
```

1.66   ARCHandler: Archive Preferences Window/Last Saved menu item

```
              Last Saved
```

This will read the settings that were last saved on place those values in
the gadgets of the
                Archive Preferences Window
                . This will not change the
settings, only the values in the gadgets.

1.67   ARCHandler: Archive Preferences Window/Restore menu item

```
              Restore
```

This will place the settings that are currently in use, in the gadgets of
the
                Archive Preferences Window
                . This will not change the settings, only
the values in the gadgets.

1.68   ARCHandler: Commodity Preferences

```
              Commodity Preferences Window
```

The Commodity Preferences Window is used to change several commodity
settings.

  preview

```
      Hot Key
              Ctrl Alt a
             v
              Flush Key
              Ctrl Alt f
             v
                 Priority
                      #
              0
      Pop up


              Save

              Use
```

                        Cancel
                    Menus:

   Project

                    Help
                      Edit

                    Reset To Defaults

                    Last Saved

                    Restore

1.69   ARCHandler: Commodity Preferences/Hot Key gadget

                    Hot Key

This string-gadget is used to change the key combination that can be used
to pop up ARCHandler's
                Main Window
                . By pressing the popup-gadget behind
the string-gadget you can use the
                Key Combination Requester
                 to pick this
key description.

When you specify an empty string ARCHandler won't generate a pop up key.

When the settings are saved the hot key description is stored in the

                CX_POPKEY
                 argument.

1.70   ARCHandler: Commodity Preferences/Flush Key gadget

                    Flush Key

This string-gadget is used to change the key combination that can be used
to flush all the unused
                archive-file-lists
                 from memory. By pressing the
popup-gadget   behind   the   string-gadget   you   can   use   the

                Key Combination Requester
                 to pick this key description.

When you specify an empty string for this argument, ARCHandler won't create
a flush key.

When the settings are saved the flush key description is stored in the

```
          FLUSHKEY
            argument.
```

1.71   ARCHandler: Commodity Preferences/Priority gadget

```
              Priority
```

With this slider-gadget you select the priority of the ARCHandler Commodity
in the chain of all the running commodities.

The priority of the commodity will only be changed when ARCHandler is
restarted, so you should use
              Save
               when you change this.

When the settings are saved the priority is stored in the
              CX_PRIORITY
              argument.

1.72   ARCHandler: Commodity Preferences/Pop Up gadget

```
               Pop Up
```

With checkbox you can choose if ARCHandler will pop up its
              Main Window
              when it is started.

When the settings are saved the popup-state is stored in the
              CX_POPUP
              argument.

1.73   ARCHandler: Commodity Preferences/Save gadget

```
  Save
```

You can use this gadget to permanently save the Commodity Preferences.
These settings will be saved in the tooltypes of the ARCHandler-icon.

1.74   ARCHandler: Commodity Preferences/Use gadget

```
              Use
```

When you use this gadget to close the
              Commodity Preferences window
               the new
settings will be used but not saved.

1.75   ARCHandler: Commodity Preferences/Cancel gadget

                      Cancel

When you select this gadget to leave the
                Commodity Preferences window
                 all
the changes that you made to the Commodity Preferences will be discarded.
The same thing happens when you use the windows close-gadget.

1.76   ARCHandler: Commodity Preferences Window/Help menu item

                       Help

When you select this menu and
                context sensitive help
                 is available you will
get some more information about the
                Commodity Preferences Window
                 .

1.77   ARCHandler: Commodity Preferences Window/Reset To Defaults menu item

                      Reset To Defaults

When you select this menu item, the values in the gadgets of the

                Commodity Preferences Window
                 will be changed to the default values. This
will not change the settings, only the values in the gadgets.

The defaults for the Commodity Preferences are:

                Hot Key
                "Ctrl Alt a" (or "Control Alt a" for Workbench 2.04)

                Flush Key
                "Ctrl Alt f" (or "Control Alt f" for Workbench 2.04)

                Priority
                0

                Pop up
                "Yes"

1.78   ARCHandler: Commodity Preferences Window/Last Saved menu item

                   Last Saved

This will read the settings that were last saved on place those values in
the gadgets of the
                Commodity Preferences Window
                . This will not change the
settings, only the values in the gadgets.

1.79   ARCHandler: Commodity Preferences Window/Restore menu item

                   Restore

This will place the settings that are currently in use, in the gadgets of
the
                Commodity Preferences Window
                . This will not change the settings, only
the values in the gadgets.

1.80   ARCHandler: Message Requesters

                 Message Requesters

ARCHandler uses several Message Requesters to communicate with the user.
These requester are fully keyboard controlable. The shortcuts are specified
by the underscored characters in the gadgets. The default gadget has an
extra dark border.

                 About

                 ARCHandler can't quit

                 Archive is corrupt

                 Name has colon

                 Can't lock as directory

                 Directory shouldn't be on ARC

                 Is not a directory

                 Key can't be created

                 LhA not found

                 Setting can't be changed

                 Settings couldn't be saved
                 When   something   is wrong with the underlying filesystem ←
                    ('disk is

write-protected', 'volume not mounted' ...), ARCHandler will also try to
report this. It uses a normal Message Requesters, but these requesters can
also be satisfied by inserting a disk.

1.81 ARCHandler: Message Requester/About

About

This requester tells you which version of ARCHandler you are using and what
language it is using.

1.82 ARCHandler: Message Requester/ARCHandler can't quit

ARCHandler can't quit

This requester will be used when you ask ARCHandler to
            quit
             (with the

            Quit
            -gadget, with the Exchange program or by sending a ACTION_KILL), ←
               but
ARCHandler isn't able to quit. The requester text will tell you why
ARCHandler can't quit at that moment.

When you ask ARCHandler to quit it will try to close all its windows. It
may not be able to close a window because it is locked by a requester.

It is also possible that ARCHandler can't quit because somebody is still
using the ARCHandler
            filesystem
            . In this case the requester will contain
the number of files, locks and/or archives that are still in use.

When a program crashes while it is using the ARCHandler filesystem,
ARCHandler will never be able to quit.

1.83 ARCHandler: Message Requester/Archive is corrupt

Archive is corrupt

This requester is used when an archive is corrupt or is not really an
archive (check
            RECOGNITION
             argument or
            Recognition
             gadget).

1.84   ARCHandler: Message Requester/Name has colon

```
              Name has colon
```

The
```
                Device Name
                 or the
                Volume Name
                 should not contain a colon (':').
```

1.85   ARCHandler: Message Requester/Can't lock as directory

```
               Can't lock as directory
```

The   directory you specified in the
```
                Temporary Files
                 or
                Extra Files
                 string-
```
gadget does no exist or it couldn't be accessed.

1.86   ARCHandler: Message Requester/Directory shouldn't be on ARC

```
              Directory shouldn't be on ARC
```

The   directory you specified in the
```
                Temporary Files
                 or
                Extra Files
                 string-
```
gadget is placed on the ARC
```
                filesystem
                . Both these directories should be
```
placed on a filesystem that ARCHandler can use directly.

1.87   ARCHandler: Message Requester/Is not a directory

```
               Is not a directory
```

The   path you   specified in the
```
                Temporary Files
                 or
                Extra Files
                 string-
```
gadget is not a directory.

1.88   ARCHandler: Message Requester/Key can't be created

```
                 Key can't be created
```

The key description you specified in
              Hot Key
               or
              Flush Key
               string-gadget is
not valid, or there wasn't enough memory to create the commodity object.

1.89   ARCHandler: Message Requester/LhA not found

```
                 LhA not found
```

ARCHandler needs LhA to extract files from
              lha
              -archives. When you have
used the Install script to install ARCHandler the
              LHACOMMAND
               tooltype
should contain the correct path of LhA. If you have changed the position of
LhA or haven't used the included Install script, ARCHandler won't be able
to find LhA. You should use the LHACOMMAND-tooltype to tell ARCHandler to
full path to ARCHandler (use 'Work:Tools/LhA' and not 'Work:Tools/').

1.90   ARCHandler: Message Requester/Setting can't be changed

```
                 Setting can't be changed
```

The name of the DOS-device and the priority of the commodity can't be
changed while ARCHandler is running. When you change these settings with
the
              Device Name
               string-gadget or the
              Priority
               slider-gadget, ARCHandler
will use this requester to inform you that these settings are not changed.

1.91   ARCHandler: Message Requester/Settings couldn't be saved

```
  Settings couldn't be saved
```

The requester will contain the specific reason why the settings couldn't be
saved. When ARCHandler is started from the CLI it won't be able to save its
settings when there's no icon for the program.

1.92   ARCHandler: Directory Requesters

                   Directory Requesters

The
               Temporary Files
                 or
               Extra Files
                 string-gadget can be changed with a
directory   requester.   When   you   press   the   popup-gadget   behind   the
string-gadget a directory requester will be opened. This requester will
block the
               Device Preferences
                window.

1.93   ARCHandler: Key Combination Requesters

                   Key Combination Requesters

The
               Hot Key
                 or
               Flush Key
                 string-gadget can be changed with the key
requester. This requester allows you to specify a key combination by
pressing that key/those keys on the keyboard.

  preview

                Get
                Nothing

                Ok

                Cancel
               This requester will block the
               Commodity Preferences
                window.

1.94   ARCHandler: Key Combination Requesters/Get gadget

                 Get

You can use this gadget to activate the
               key combination gadget
               . When you
press the 'Get' button, the requester will use the next key combination
that you press.

1.95   ARCHandler: Key Combination Requesters/Nothing gadget

```
            Nothing
```

With   the   'Nothing' button you can delete the current key combination. You
can   use   this   when you don't want to use a key combination for
            Pop Up
             or

            Flush
             .

1.96   ARCHandler: Key Combination Requesters/Key Combination Gaget

```
            Key Combination gadget
```

When   you   activate the key combination gadget, either by pressing the
            Get
            gadget or by pressing in the key combination gadget, the requester ←
                will use
the next key combination that you press.

1.97   ARCHandler: Key Combination Requesters/Ok gadget

```
            Ok
```

When   you leave the Key Combination Requester with the 'Ok' button, the key
combination   that   is in the requester will be copied to the string gadget;

            Hot Key
             or
            Flush Key
             .

1.98   ARCHandler: Key Combination Requesters/Cancel gadget

```
            Cancel
```

When   you leave the Key Combination Requester with the 'Ok' button, the key
combination in the string gadget (
            Hot Key
             or
            Flush Key
) won't be changed.

1.99   ARCHandler: Workbench Support

                      Workbench support

To be able to easily access the ARCHandler through the Workbench, the
handler adds extra files:

 ·In the root of the ARCHandler volume there is a disk-icon 'Disk.info'.
  You can 'Snapshot' the position of the icon and the window (use
  'Snapshot» Window') and you can edit the icon (with IconEdit).

 ·In the root of the volume there are also drawer-icons for the other
  volumes. These icons are created from the original disk-icon on that
  volume. If this icon does not exist, ARCHandler will use it's default
  volume-icon (if this default icon does not exist the volumes without
  there own disk-icon will not be visible from the Workbench). Only the
  icon of volumes that don't have there own disk-icon can be written to
  (but ARCHandler will always remove the position information in these
  icons, otherwise they would overlap).

 ·For all the archives the handler recognizes a drawer-icon is added.
  You can write to this icon, but the
                filesystem
                 will remove the
  position information (otherwise all archive-icons would overlap). These
  icons can't be deleted (the filesystem won't complain when you try, but
  nothing happens).

 ·In the root of the filesystem a '.backdrop'-file is added. You can use
  this file to 'Leave Out' ('Icons' menu item of the Workbench) files and
  drawers.

All these files are stored in the
                FILESDIR
                 directory. The 'archive-icon'
is stored in the 'Drawer.info' file and the default volume-icon is stored
in 'Volume.info'. If you want to change these files it's best to change
them through the ARCHandler filesystem.

You can also add other files to the
                FILESDIR
                 directory, you will then be
able to access these files from the root-directory. These files won't be
visible in the root-directory ('List ARC:' won't show these files); you
could use this to add a 'Node.rinfo' file, for the ParNET package.

1.100   ARCHandler: Tips for Using

                      Tips for Using ARCHandler

                      Online help

                      Faster ARCHandler

                    Quitting ARCHandler

                    MultiUser and ARCHandler

1.101   ARCHandler: Online Help

  Online Help

ARCHandler is able to give you help on the current window or requester:
activate the window or requester and press the 'Help' key.

To be able to use the online help, the documentation should be installed.
The install script allows you to install the documentation. ARCHandler will
only load the documentation after you have pressed the 'Help' key.

Online help is available in all windows and requesters (except the file
requester).

I you didn't choose to install the 'Help files' then ARCHandler won't be
able to open this document, and I won't give you any help.

1.102   ARCHandler: Faster

                  Faster ARCHandler

You can speed-up the extraction of files by making LhA resident. Add a
'Resident >NIL: <path-to-lha>/LhA' to your 'User-Startup' and change the

              LHACOMMAND
               to 'LhA' (without path).

A diskcache on the volume that you are accessing will also give you a big
speed increase.

1.103   ARCHandler: Quitting

                  Quitting ARCHandler

Before you can quit ARCHandler you should quit all programs that are using
ARCHandler, or at least change there current-directory and close any files
that they are using on the filesystem.

When ARCHandler is asked to quit it will simulate a disk removal to
encourage all programs using ARCHandler to free the locks the have on the

              filesystem
                and it will start to free its own resources. Some programs
don't support this (for example a shell with a directory on the filesystem
as its current directory). If you are in this situation you can ask

ARCHandler to reactivate itself so the filesystem can be used again.

ARCHandler can be reactivated by pressing the hotkey (
              CX_POPKEY
              ,
              HOTKEY
              ),
by activating the commodity from the Exchange program or by sending a
ACTION_DISK_CHANGE (DiskChange) packet

Note that it is possibly dangerous to remove the filesystem. I have never
had any trouble when quitting ARCHandler. But, since ARCHandler can't know
if another process has called DeviceProc() on it, it is possible that the
other process uses the returned message-port after ARCHandler has quit.

When a program that was using ARCHandler crashed before it was able to free
all the locks and files ARCHandler will never be able to quit.

1.104   ARCHandler: MultiUser

                 MultiUser and ARCHandler

Currently ARCHandler doesn't have full MultiUser support. But this is a
list of precautions you should take when you are installing ARCHandler on a
MultiUser system.

Don't set the u-bit of the ARCHandler executable. If you would set the
u-bit all users will be able to access all the files that the owner of the
ARCHandler executable can access.

Use
              IGNOREVOLUMES
                to prevent ARCHandler form using any MAssign volumes.
The MAssign volumes that are available through ARCHandler will reflect the
access to such a volume by the owner of the ARCHandler task.

1.105   ARCHandler: Support Commands

                 Support Commands

The ARCHandler archive contains several support commands:

              FromARC

              ToARC
              The 'Scripts' directory of the ARCHandler package contains ←
                  similar ARexx
scripts for use with DiskMaster (DiskMaster by Greg Cunningham, Copyright
Progressive Periperals Inc.) and DirectoryOpus (Copyright Jonathan Potter).

1.106   ARCHandler: FromARC

```
  FromARC
```

FromARC is a shell command that changes the current directory back to the
original volume. It will also strip all directories from the current
directory that are not valid on the original volume. The command takes no
arguments.

Example:
When the current directory is 'Archives:Work/NewStuff/AmiCDROM-1.12.lha'
and you execute the 'FromARC' command, the current directory will be
changed to 'Work:NewStuff' (note that FromARC also strips all the
directories that are not valid on the original volume).

The FromARC and ToARC commands can only be installed when you select
'Expert User' in the installation script.

1.107   ARCHandler: ToARC

```
  ToARC
```

ToARC is a shell command that changes the current directory of the shell to
the same directory on the ARC volume. The ToARC command has the following
template:

```
                    ToARC DEVICE/K,DIR
```

The DEVICE argument defaults to 'ARC:'. With the DIR argument you may
specify a directory/archive to enter.

Example:
When the current directory is 'Work:NewStuff' and this directory contains
the archive 'AmiCDROM-1.12.lha', then it's possible to enter this archive
with the 'ToARC AmiCDROM-1.12.lha'. After this command the current
directory will have changed to 'Archives:Work/NewStuff/AmiCDROM-1.12.lha'.

The FromARC and ToARC commands can only be installed when you select
'Expert User' in the installation script.

1.108   ARCHandler: Technical Information

```
            Some technical background


          Archive-file-lists

            Packet types
```

1.109   ARCHandler: Archive-file-lists

                      Archive-file-lists

When an archive is accessed for the first time ARCHandler will scan the
contents of the archive for the files and directories that it contains.
This   list   is   kept   in   an   archive-file-list.

Several of these archive-file-lists are kept in memory, even if they are
not in use. The unused lists are kept in memory because otherwise
ARCHandler would have to rescan the archive contents on each access
(directory utilities and file requesters don't keep locks on the directory
that they display).

You can use the
                 BUFFERS
                  argument or
                 Buffers
                  slider-gadget to specify the
number of unused lists that ARCHandler will keep in memory.

1.110   ARCHandler: Packet types

                      Packet Types

Currently the ARCHandler filesystem supports the following packet types:
    ACTION_CHANGE_MODE
    ACTION_COPY_DIR
    ACTION_COPY_DIR_FH

                ACTION_CREATE_DIR
                    ACTION_CURRENT_VOLUME

                ACTION_DELETE_OBJECT
                    ACTION_DIE
    ACTION_DISK_INFO
    ACTION_END
    ACTION_EXAMINE_FH
    ACTION_EXAMINE_NEXT
    ACTION_EXAMINE_OBJECT
    ACTION_FH_FROM_LOCK
    ACTION_FINDINPUT
    ACTION_FINDOUTPUT\textdegree{}
    ACTION_FINDUPDATE\textdegree{}
    ACTION_FREE_LOCK
    ACTION_INFO
    ACTION_IS_FILESYSTEM
    ACTION_LOCATE_OBJECT
    ACTION_PARENT
    ACTION_PARENT_FH
    ACTION_READ

                ACTION_RENAME_OBJECT
                    ACTION_RENAME_DISK

```
    ACTION_SAME_LOCK
    ACTION_SEEK
    ACTION_SET_COMMENT
    ACTION_SET_DATE
    ACTION_SET_FILE_SIZE\textdegree{}
    ACTION_SET_OWNER\textdegree{}
    ACTION_SET_PROTECT
    ACTION_WRITE\textdegree{}
```

  \textdegree{}currently not supported in/on archive files/directories.

These two actions don't need to be implemented because the dos.library
emulates them by using ACTION_EXAMINE_OBJECT and ACTION_EXAMINE_NEXT (and
almost nobody uses them):
```
    ACTION_EXAMINE_ALL
    ACTION_EXAMINE_ALL_END
```

Actions that may be implemented, if needed:
```
    ACTION_ADD_NOTIFY
    ACTION_FREE_RECORD
    ACTION_LOCK_RECORD
    ACTION_MAKE_LINK
    ACTION_READ_LINK
    ACTION_REMOVE_NOTIFY
```

Actions that are not supported:
```
    ACTION_FORMAT
    ACTION_FLUSH
    ACTION_MORE_CACHE
    ACTION_INHIBIT
    ACTION_WRITE_PROTECT
```

This is the minimal list of packets that an underlying filesystem should
support, if you want to use it through the ARCHandler:
```
    ACTION_COPY_DIR
    ACTION_END
    ACTION_EXAMINE_NEXT
    ACTION_EXAMINE_OBJECT
    ACTION_FINDINPUT
    ACTION_FREE_LOCK
    ACTION_LOCATE_OBJECT
    ACTION_PARENT
    ACTION_READ
    ACTION_SAME_LOCK
    ACTION_SEEK
```
ARCHandler also uses ACTION_CHANGE_MODE for exclusive (ACCESS_WRITE) locks
on non-archive objects. If you want to use 2.0 packets (like
ACTION_COPY_DIR_FH, ACTION_EXAMINE_FH...) the underlying filesystem should
also support these.

ARCHandler will also try to use these packets:
```
    ACTION_CHANGE_MODE
    ACTION_COPY_DIR_FH
    ACTION_FH_FROM_LOCK
    ACTION_SET_FILE_SIZE
```
but it will use other packets if the underlying filesystem doesn't

understand those packets. Without ACTION_SET_FILE_SIZE, ARCHandler can't
change the length of archives, especcialy when you delete files from an
archive (it will use another method to mark the end of the archive).

When ARCHandler is trying to
                quit
                 but it receives a ACTION_DISK_CHANGE
before ARCHandler has been able to free all resources it will reactivate
itself. You can use this when you try to quit, but ARCHandler isn't able to
quit at that time, then you can reactivate ARCHandler with a 'DiskChange
ARC:'.

1.111   ARCHandler: About the Author

  ARCHandler was written by Rafael D'Halleweyn.

If you have any questions, remarks, suggestions or bug reports please let
me know. You can contact me via EMail at:

                        Rafael.DHalleweyn@rug.ac.be

    [if you only have fido-access you should send a message to
    UUCP (2:29/777.0) and the first line of the message should
    read 'To: Rafael.DHalleweyn@rug.ac.be', the second line should
    be empty]

or you can use normal mail, send it to:

                        Rafael D'Halleweyn
                         Perckhoevelaan 17
                         B-2610 Antwerpen

                              BELGIUM

When you report a bug you should at least include the following
information: version of Kickstart and Workbench you are using, the volume
that the problem occured on, the filesystem that this volume is using.

ARCHandler was beta-tested by Nico François, Johan Billing, Per-Anders
Josefsson, Stefan Zeiger, Tom De Voeght, Peter Stuer, Erik Bergen, Aeneas
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The excellent KingCON, by David Larsson, was used during the development.

Thanks guys. Do NOT try to send me the registration fee.

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