## FiDED

Laserdance / Brothers

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COLLABORATORS				
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### **Chapter 1**

**FiDED** 

#### 1.1 FiDED interactive hypertext documentation - Main-Menu

Welcome to the interactive hypertext-documentation to FiDED.  $\leftrightarrow$  Click one of the buttons below for more information on a topic.

Items marked with a star have been changed  $(\star)$  or added  $(\star\star)$  recently.

MUI support for FiDED

MUI support? Would you like FiDED MUIfied?

Introductory Information

Introduction About the program

Installing Installing the program

An example A quick introduction

Tech Talk

Tooltypes/Commandline \* Tooltypes and Commandline options

Separation patterns About the separation-pattern details

Gadget reference Detailed Information

Supported filetypes

\* Filetypes supported by FiDED Search priority \* FiDEDs strategy Known bugs Erm ... History \* And the Earth was dark and void\*... Addendum System requirements The stuff you need to get it going Copyrights/Disclaimer Odds and ends Credits and hellos Some messages to the world outside Contact Laserdance Productions The Future \* Coming soon Hope you enjoy the program. Take care,

#### 1.2 Search strategy employed

Kai (laser@stud.uni-hannover.de)

FiDED has a sophisticated yet somehow customizable strategy to get the file information that appears in the dirfile. The outline of the search strategy is as follows:

- 1. Get next file in list of files to examine
- 2. If COMMENTSFIRST is enabled, try to find a filecomment.
- If comment found, print and exit otherwise:
- 3. If AMINETMODE is enabled, try to find a readme file If readme file is found, search for a line like "Short:<string>" and, if found, print <string> and exit, otherwise

4a. Is it a DMS file? Yes: try to find info and print otherwise goto step 5 4b. Is it a GIF file? Yes: try to find info and print otherwise goto step 5 4c. Is it a ILBM file? Yes: try to find info and print otherwise goto step 5 4d. Is it a JPEG file? Yes: try to find info and print otherwise goto step 5 4e. Is it a LHA file? Yes: try to find info and print otherwise goto step 5 4f. Is it a LZX file? Yes: try to find info and print otherwise goto step 5 4g. Is it a ZIP file? Yes: try to find info and print otherwise goto step 5
4h. Is it a executeable file? Yes: try to find info and print otherwise goto step ← 5
4i. Is it a MPEG audio file? Yes: try to find info and print otherwise goto step 5
4j. Is it a textfile? Yes: try to find info and print otherwise goto step 5
5. Try to find Aminet readme-file (see 3). If failed
6. If NOCOMMENTS is not set try to find AmigaOS-filecomment and print it otherwise
7. If file has \_not\_ been identified in step 4 try to find file\_id.diz in last 3000 bytes of file and print. Otherwise
8. Print failure string

#### 1.3 MUI

If you use FiDED reguarly and would like to see it MUIfied tell me and use EMail or Snailmail!

See also :

Contacting the author

#### 1.4 Known bugs

There are no real bugs known to the author. You shouldn't ↔ come across severe problems, like sudden meditations, even if you try to. The program has been designed to be as riliable as possible.

If you notice any bugs, or have problems with the program please send a detailed bug report to the author.

Some problems you might encounter are the following:

- Output seems to be garbled (extra blanks) Some of the programs (especially unzip and cfx) called by FiDED produce output that cannot (believe me) suppressed by FiDED. For example cfx always prints out a blank line!
- Too much output, is there a QUIET option?
   No, there's not! But you may use FiDED >NIL: instead.
- Can I get direct output (not into a file)? Of course you can. Shell-wizards use FiDED [...] TO \* >NIL: to get console output as desired.
- FiDED doesn't seem to extract zip-files (or lha-files or...)

Check if you have the unzip program installed. It must be present in the command path (C: is always a good choice). You may add directories using the AmigaOS 'path' command. If you start the program from Workbench you might not get all paths specified in shell-windows!

See also :

Contacting the author

#### 1.5 Tooltypes and Commandline options

FiDED recognises several different tooltypes/commandline options.  $\leftarrow$ They are: PUBSCREEN (GUI only) Name of a public-screen to use for the program's windows. CURRENTDIR Current directory of the program (this is actually a workaround. Does anybody know how to specify a 'homedirectory' for the reqtools-directory-requester upon startup?) SEPPATTERN You may specify a string with this option that will be used within the dirfile for separation. You may specify the printf-style placeholder '%d' to print the ordinal number of the file just examined - if another '%d' appears after the first one, the current sum of all filesizes so far processed will be printed. See the examples section for more information. USDATE If this option appears in the Tooltypes or on the commandline, American date output is enabled.

FILTERPATTERN Specifies the filterpattern (default :  $\ \ (\ \ )\ \ )$ 

- SORTBY Specifies sort-mode used. Possible values are: NAME (default), DATE, (oldest file first), REVDATE (newest file first) and SIZE
- SEPARATIONMODE Specifies the separation mode. Possible values are NONE(default), BLANK, SLASHES, BLANKSLASHES, CUSTOM, BLANKCUSTOM, CUSTOMTOP, BLANKCUSTOMTOP
- INPUT (Shell only) Used to specified input directories OR files for FiDED's NoGUI-mode invoked with this option. The GUI won't pop up, instead FiDED tries to examine the input files and directories and created a dirfile specified by the OUTPUT option, which must be present if you use the INPUT option !!! NOTE: Patterns are not yet supported !!!

OUTPUT (Shell only) Used to specify a outputfile for FiDED's

NoGUI-mode. The INPUT option must be given (see above)

- FORCE (Shell only) Overwrites existing OUTPUT files, default
   mode is append
- RECURSE If subdirectories are encountered during the examination of directories, FiDED will examine the subdirectories contents as well. Files will be sorted by directory and by the sort option selected by SORTBY (see above).
- PRINTP Enables 'P' output behind filenames in the dirfile. Just works with filenames that are max. 12 characters long.
- CHOPFILENAMES Chops filenames if they are longer than 14 (12 if the PRINTP option is turned on) characters long

DATESEPARATOR Takes a string as argument and includes it as a date separator in the dirfile. This only works if sortmode is DATE or REVDATE. You may specify the printf-style placeholder '%s' to print the date (which is passed as a string-pointer to printf). See the printf-style section for more information.

- AMINETMODE If this flag is enables FiDED will look for a Aminet-readme file before examining file\_id.diz. Warning: When this flag is set no files called "#?.readme" or "INDEX" will be examined
- SIZEMODE Possible values are: B, KB, MB, kb, mb, k, m, K, M, auto and AUTO. These affect the way the filesize is printed (either in bytes, kbytes or mbytes). Auto-mode sees which mode fits best for each file and uses that one. Try to see the results.
- NODATE Prints no date-string (and thereby leaves more room for the filenames
- NOINFO Just prints the file id without any information nor indention.
- TOPTEXT Takes a filename as argument and includes that file at the top of the dirfile
- BOTTOMTEXT Takes a filename as argument and includes that file at the bottom of the dirfile
- COMMENTSFIRST Look for file-comments before searching for any other information on the file (file\_ids, cfx, etc.). See NOCOMMENTS
- NOCOMMENTS Don't regard file-comments at all. If FiDED does not find any file-id, cfx-result, etc. it will examine the file for a comment and include that in the dirfile

MPEGVERBOSE Enables verbose output for MPEG audio files. This means output of year, album and comment data if available

Some of the options may be abbriviated when called from Shell. Enter 'FiDED ?' to get information on these commands.

#### 1.6 Separation pattern examples and printf-style output

You may include one or two %d-placeholder in the file separation pattern. The first one will be replaced with the number of the file just examined, the second one with the sum of the filesizes encountered so far.

Furthermore you might include one %s in the date-separation patten. Additionally you may also include C-printf-style control charactes as \\n (new line) or \\t (tabulator). The printf-convention is to complicated to explain here; see any decent book on ANSI-C for a full range of possible values and modifiers (Note: This didn't work before V39.429).

NB: If you are using Diskmaster (yeah!) or similar to start FiDED you might face problem as the %s and %d placeholder will be interpreted by Diskmaster and thus FiDED does not work properly. To take care of this the percent sign can be replaced by \\\$ in all pattern strings. Thus the (sub)string "----[%3d]----" in the example below produces equivalent output as the string"----[\\\$3d]----"

Some examples are given below:

with no placeholder in the separation pattern

If you file pattern looks like this:

"\_\_\_\_\_"
your dirfile will look like this:
 aanim811.lha P 688708 08-03-95 Amiga Animation ed 8.1 1/3
 \_\_\_\_\_\_
 aanim812.lha P 298888 08-03-95 Amiga Animation ed 8.1 2/3

with one placeholder in the separation pattern

If you file pattern looks like this:

If you file-pattern looks like this:

"----[%0.3d]------" your dirfile will look like this: aanim811.lha P 688708 08-03-95 Amiga Animation ed 8.1 1/3 ----[001]-----aanim812.lha P 298888 08-03-95 Amiga Animation ed 8.1 2/3 ----[002]-----with two placeholders in the separation pattern If you file-pattern looks like this: "----[%.3d]-[%.6d]-----" your dirfile will look like this: 73914 14-02-95 Silver Moon ADHelp10.lha ----[001]-[073914]------Cross-Asm.exe 122288 14-02-95 EXE-file w/o description ----[002]-[196202]----with one placeholder in the separation pattern If you date-pattern looks like this: \_\_\_\_\_" "---- New date : %s ----your dirfile will look like this: ---- New date : 08-03-95 ----aanim811.lha P 688708 08-03-95 Amiga Animation ed 8.1 1/3 ---- New date : 09-09-97 -----4117 09-09-97 Textfile w/o description OpenExec.c

#### 1.7 Easy start ...

Here's a quick-starters guide on using FiDED :

- Start program (You guessed that ?!)
- If you want to examine a entire directory, then click the Filter gadget once. Filtering will be disabled. If you want to include only certain files specify a pattern in the Pattern gadget.
- Use the 'Scan directory' gadget to read a directory.
- Want to add more files ? Click the 'Scan ..' gadget once more
- If you are done, choose if you want blank lines appearing between two files in the output file. If not click the 'Separation'-gadget
- $\cdot$  Choose your separation mode if you fancy some artistic stuff
- $\cdot$  Now click 'Create dirfile' and choose an output file
- Wait until finished. Voila ... we're done

#### 1.8 About FiDED

FiDED is a tool to create a so-called Dirfile from the File\_ID.diz information contained within files uploaded to the Aminet, AmiExpress-BBS-Systems and other sources. There have been many tools like this before, but FiDED was written with two purposes in mind : a) provide a powerful and easy to use GUI and b) to serve as a module in for the program DePack! which deals with AmiExpress dirfiles (look for Demoversion of DePack! in AmiNet and related sources).

Here are the features which render FiDED unique among the other File\_Id.diz extractors available :

- Easy to use GUI (but may be used without the Userinterface, so you might call FiDED from DOpus or Diskmaster)
- No need for programs like 'DMSExtract', 'ExeExtract', it's all comes in one program
- · Outputfile structure compatible with filenames longer than 12 bytes
- · Automagical sorting by name, filesize or date
- Filepatterns supported (so no #?.info will appear)
- Multiple directories can be read in one pass
- · Separation between files may be customized
- It's sexy!

#### 1.9 Installing FiDED

Simply copy the program, its icon and docs to a drawer you'd like. You need reqtools.library V38+ to run the software!

See DePack!.guide to know more about using FiDED from within DePack!, the Deluxe-Depacking tools from Laserdance Productions.

#### 1.10 Filetypes supported by FiDED

FiDED recognises the following filetypes and is able to  $\leftrightarrow$  <code>extract</code> file\_id information from those types :

- DMS files (DiskMasher)
- LHA/LZH files
- LZX files
- MPEG audio files
- ZIP files (a little clumsy at the moment, consider this as preliminary)
- Executeable files
- · Plain Textfiles (i.e. more than 2/3 of bytes printable)
- All files that contain a description enclosed in an @BEGIN\_FILE\_ID\_DIZ/ @END\_FILE\_ID\_DIZ-pair within the last 3000 bytes (this should do for most pictures)
- Files with Aminet-readme files (may be switched off)
- Files with AmigaOS-file comments (may be switched off)
- all other filetypes will be examined with

```
cfx
```

, if present

This should do for most of the Amiga-software released, more types will be added in the future. If you would like FiDED to handle a filetype thats not listed above send me an example file and I'll try to support it in future versions.

See the section on search strategy for detailed information.

#### 1.11 Crunched File Examiner

CFX (Crunched File Examiner) is a tool written by Bob Rye (great program, Bob!). CFX is Freeware and available through various sources as AmiNet, etc. FiDED tries to invoke CFX to examine files (types) that contain no descriptions or aren't recognised by FiDED.

CFX is not included with the FiDED distribution.

FiDED was written using cfx v5.570, other versions might lead to problems with the layout, please let me know if you encounter such problems.

#### 1.12 Requirements

FiDED needs some additional files to pop up, some of them  $\leftrightarrow$  are essential to start the program, some of them are optional :

Required things :

```
    - 68020+ processor
    - Nobody uses these 68000-chips anymore...
```

- Operating System 2.04 or higher (starting with V37.175)
   for the GadTools.library GUI and several other new features not available under V1.2 or V1.3
- diskfont.library (V37 or higher)
   for the output routines.
   You can find this library in the
   libs directory of the Workbench disk
   that came with your computer.
- icon.library (V37 or higher)for Tooltype reading
- reqtools.library (V38 or higher)
   for the various requesters.
   You can find this library in many

PD-packages. It's not included here for legal issues. Recommended things : - lha File extractor - Must be present in the command path, if you want to extract descriptions from .lzh/lha-files - lzx File extractor - Must be present in the command path, if you want to extract descriptions from .lzx-files - unzip File extractor - Must be present in the command path, if you want to extract descriptions from .zip-files I use 'UnZip v5.1d3 BETA of 18 Feb 93' CFX File examiner

- Must be present if you want to get information on files with types unknown to FiDED.

#### 1.13 FiDED Version history

I have to apologize for a grave mistake in the previous amigaguide documents for FiDED. The backslash character '\\' did not appear in these documents or were printed as slash '/' characters. Hence some of the pattern-strings did not make sense. This has been corrected in this version of the documentation. Sorry!

- V39.547 (06.04.1998) MPEG audio support. This bits of code is based on mp3info by Thorvald Natvig and Mike Cheng • Added MPEGVERBOSE commandline option
- V39.525 (13.03.1998) · Sorry, yesterday's release still had some problems with the sorting, especially in the DATE/REVDATE modes
- V39.516 (12.03.1998) · Sortmode REVDATE added (this option was not mentioned in the 39.503-history entry below; still it is documented and implemented in that version)
  - The sorting/date-separator went completely bonkers in the DATE and REVDATE-sorting modes. Fixed
  - Added more abbreviations for the commandline options
  - · Silly error in the welcome-message. Find that

one for yourself. It's really embarassing... V39.503 (07.03.1998) · Backslash characters '\\' did appear wrongly in previous versions of this document. Fixed. · Comments will now be included in dirfile (see new options : NOCOMMENTS, COMMENTSFIRST) • Textfiles may be included at the start and end of the dirfile (new options: TOPTEXT and BOTTOMTEXT) • SORTBY-tooltype did not work. Fixed. V39.457 (15.12.1997) • The percent sign can be replaced by  $\$  in all pattern strings to prevent clashes with Diskmaster or other programs that use %s or %d for other purposes. V39.455 (06.11.1997) · SORT-tooltype was broken in last version. Fixed. • 7 new values for SIZEMODE: k,m,kb,mb,K,M,auto. Caution: SIZEMODE arguments are now case-sensitive · Dateoutput can be turned off (will leave more space for the filename). Use the option/tooltype NODATE • NOINFO tooltype/option just prints raw file id's • Finally: FiDED (when started from shell) may be aborted by sending an Control-C signal. V39.429 (30.10.1997) • New tooltype/option CHOPFILENAMES chops long filenames • New tooltype/option AMINETMODE searches for .readme files to get a file-description (and ignores #?.readme and INDEX files)  $\cdot$  New tooltype/option SIZEMODE allows of different output-modes • New tooltype/option DATESEPARATOR includes a separating line between subsequent dates in the dirfile · Fixed pseudo-bug: The docs incorrectly stated that one could use C-placeholders like "\\n" in customstrings - this didn't work. Now it does !  $\cdot$  Included new options in the program's icon · Slight changes to the info-text V39.380 (11.10.1997) · \_Now\_ PRINTP finally works. Sorry! V39.377 (08.10.1997) • New tooltype/option PRINTP enables 'P' printout behind the filenames (only if the name is <= 12 characters long). · Reversed order of this history file V39.376 (06.10.1997) • Removed error that cleared filelist when 'no' was selected in the 'Add another directory'-requester. · Parsing string is no longer case-sensitive (whoops!) · Current-Directory handling had problems with ZIP-files, should be fixed by now. • Didn't remove temporary file-id's from T:-directory if the D-flag wasn't set, that would prevent remaining file-id's from being examined. Fixed. · Customstring may now also appear at the top of the file -> New values for SEPARATIONMODE-tooltype/option

	are CUSTOMTOP and BLANKCUSTOMTOP Archive now contains a file_id.diz :D
	Thanks to all the people on the net that keep interested n my software and homepage)
	<pre>(16.09.1997) · Abort requester pop up on FiDED's screen, not on the reqtools default screen anymore. Abort requester produced guru's when used with RECURSE option. Fixed. The 'P' between filename and filelength won't appear in FiDED's output anymore.</pre>
· · ·	<pre>(09.09.1997) · Customstring may use printf-style formatting to output the number of the file (great idea, Fredrik) FreeMem size mismatched in DMS-extract routine. Fixed. Added support for GIF/IFF/ILBM-files (actually for a whole lot of files more, see filetypes section) New tooltype/option RECURSE allows recursion into subdirecories Improved calls of lha/lzx to allow FiDED to handle archives with no .lzx/.lha suffix (Thanx MadOne) Icon contains tooltypes in braces Current Directory was changed to PROGDIR: after use of unzip despite any CURRENTDIR settings. Fixed.</pre>
· · ·	<pre>(25.08.1997) · Recompiled with SAS 6.57 Better support for ZIP-files Sorting by size added All options may be set from Shell/Workbench FiDED may be used without GUI (but including all options), so it's may replace all Shell-based single file extractors as SnatchDiz and the like Improved outputstyle of files with long filenames Support for</pre>
	<pre>(31.07.1997) · Better Abort gadget handling DMS-files without description were printed without "No description available\\n" string. Fixed Enforcer hit during startup from Shell w/o arguments removed (Illegal read) Enforcer hits during 'Scan' removed (Illegal read) New Tooltype/Shell-option USDATE switched between American date output in dirfiles. (Thanx Andreas!)</pre>
	<pre>(15.07.1997) · Textfiles were not close()d. Fixed. Support for Tooltypes and new Commandline arguments Workdirectory may be set upon startup New built-in line separators and support for custom separators Abort gadgets added</pre>

Number of files without description will be displayed after finished extraction
FiDED is now compiled for use with 68020+ processors. It might also work with 68000 processors, who knows?
Improved the old dull logo a bit
V39.171 (24.07.1995) · Added sorting by date (finally :)
Added support for ZIP archives
Fixed some oddities in this docfile ;)
V39.142 (30.03.1995) · Txt files weren't properly scanned sometimes. Fixed
Added support for LZX archives
Description lenght now limited to 44 col's
It was possible to extract FileIds while the About text was shown

V39.118 (15.03.1995) First public release to AmiNet

See also: the Future section.

#### 1.14 The FiDED - gadgets

Scan directory Read files into list

Create dirfile Creates dirfile

Sort by Select sort mode

Separation Enable/Disable Separation

Filter Enable/Disable Filter

Pattern Filepattern

#### 1.15 Choose sort mode

Determine the sort mode used by FiDED with this gadget. Determines in which order the files will be appearing in the output dirfile. Nota

bene: This knob only takes effect \_before\_ your read any files into the list. The files in the output-dirfile will appear in the same order as in the listview gadget.

The default value is NAME. It may be changed via the SORTMODE option.

#### 1.16 Scan directory

On pressing this button you are asked to specify a directory. The directory will be scanned and all files matching the Pattern specified in Pattern, if enabled, will appear in the List on the right side of the window. You may extract File\_ID-information now, or scan another directory by pressing the button again.

There is no need to clear the filelist as you'll be asked for that before a new directory might be scanned.

#### 1.17 Create Dirfile

A file requester will pop up, if you click this button and you may enter a filename in this requester, that will be used for the dirfile output. If you specify an existing file, you are asked whether you want to overwrite or append to the existing file. If the file could be successfully opened, the dirfile will be created. This may take quite a while. You are able to monitor progress in the 'Messages'-gadget.

#### 1.18 Separation mode

Choose separation mode for the output dirfile, i.e. the way space between files is filled. Possible values are:

NONE no space BLANK leave one blank line SLASHES separate with slashes (-----) BLANKSLASHES separate with slashes and blank lines CUSTOM separate with custom pattern BLANKCUSTOM separate with custom pattern and blank lines

The default value is NONE. It may be changed via the SEPARATIONMODE option

#### 1.19 Filter

If this gadget is in position 'Filter Files' then only files that match the pattern specified in the 'Pattern'-gadget will be added into the list of files to be processed.

The default value is  $\sim$  (#?.info) which leaves out all icon-files. The default value may be changed via the FILTERPATTERN option.

#### 1.20 Pattern

If the filter is enabled, only files that match the pattern specified here will be added to the dirfile.

#### 1.21 Copyrights & Everything

FiDED and the sources of this program are copyright © 1995-7 by Laserdance Productions. The program is freely distributable as long as all of its files are included in their original form without additions, deletions or modifications of any kind, and only a nominal fee is charged for their distribution. (You have no permission to include the demo-version on compilation disks with other programs on the same medium.

The software is provided »AS IS« without any warranty of any kind, either expressed or implied. The sources are © 1995-7 Laserdance Productions and may not be distributed. Unauthorized copying, reproduction, hiring, lending, prohibited. By using the 'FiDED' software of the program, you accept the entire risk as to the quality and performance of the program.

There should be no bugs left, as the software supplied herein has been extensively tested, but if it destroys your grandma's toaster or kills your cat (etc.) either due to programming bugs or improper usage, it's not my problem.

You are encouraged to copy the program freely as long as you include all the files that came with the distribution archive. To contact the author for comments, complaints etc. write to

Laserdance Productions

Thank you in advance for your support.

- Reqtools.library Copyright © Nico Françios
- Graphical user interface designed with GadToolsBox Copyright © 1993 by Jaba Development.

The following files belong to the distribution archive of the 'FiDED'-package :

FiDED.info FiDED/FiDED FiDED/FiDED.guide FiDED/FiDED.guide.info FiDED/FiDED.info FiDED/Author FiDED/Author.info

#### 1.22 Greetings

The author would like to greet the following persons for their help and moral support during the creation of FiDED

Carsten Bruehl Markus Klinge Markus Schmall Joerg Wabbel Andreas Weyert Simon Stelling

Thank you,

```
Jason (lucifuge@xtra.co.nz),
dixi@ddnet.se,
Fredrik (ismyren@hem1.passagen.se),
MadOne (madone@email4u.com)
```

for your ideas and support.

Special regards to Jan-Tøre Eliassen for the program icon.

#### 1.23 Oh Mr. Postman, bring me a letter ...

If want to contact the author for any other reason please send some mail to the following address.

(DON'T USE THE UK-ADDRESS AFTER SEPTEMBER 1, 1998 (eight!))

kai haseloh saltash hall of residence room b 1 brunel university uxbridge middlesex ub8 3ph england

laserdance productions c/o kai haseloh gaensebrink 6 32479 hille germany email may be sent to

laser@stud.uni-hannover.de

Updates may be found at my fine homepage located at:

http://www.stud.uni-hannover.de/~laser

! Thanx for your support !

#### 1.24 ...

'Things are only impossible until they are not..." Jean-Luc Picard "When the Bough Breaks"

Watch out for newer versions of this software and other releases from Laserdance Productions including :

FiDED - further expansion

FiDED is steadily growing - thanks to the continuing support from the Amiga-community. There are still a lot of ideas floating in my mind that I would like to implement one day: - full control over the dirfile layout by means of

- an WHYSIWYG-preferences editor
- better pattern customization
- rearrange GUI (MUI?)

Swipe V1.56

ClearRAM was the name of a program I once wrote to clear the RAM-disk while leaving the T,Clipboards and env-directories intact (it still can be found on the (Ami)net). The source code is lost, but I wrote a new version of the program. It is called Swipe that may be used as a replacement/extension for the AmigaOS-delete-command and incorporates the REMOVAL OF DIRECTORIES WITH ASSIGNS ON THEM as well as ClearRAM's functionality.

Swipe - buttons

This example files exaplain how to use Swipe with your directory tool(s).

DePack! V38.204 :

My largest project so far. Depack! is a huge system to extract files by selecting them within a dirfile. May be used by AmiX-sysops for their

file-maintainance also. Includes FiDED support.

(no title)

I'm thinking about a C-conversion of an old C-64/Amiga-Basic program I found in a computer magazine almost a decade ago. It renders pseudo-3D-images of the Mandelbrot-sea. I just converted the old source codes to C but the GUI is almost non existant. Be patient!

See AmiNet's RECENT file for new releases or take a look at my homepage at:

http://www.stud.uni-hannover.de/~laser