

**Identify-E**

**COLLABORATORS**

	<i>TITLE :</i> Identify-E		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
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**REVISION HISTORY**

NUMBER	DATE	DESCRIPTION	NAME

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# Chapter 1

## Identify-E

### 1.1 Identify-E.guide

#### TABLE OF CONTENTS

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```

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     | _ | _ _ | . | _ \ /
     | ( _ | ( / _ | ) | | | /      v7.3

```

== THE ORIGINAL ==

1. Introduction	About identify.library
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B. History	What has happened so far?
C. Credits	Greetings and credits

REGISTER

Concept Index

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## 1.2 Identify-E.guide/Introduction

Introduction  
\*\*\*\*\*

The identify.library has a rather long history.

It all began when I got mad about all the System info programs only showing the expansion boards as a number. So I wrote expname.library, which you may already be familiar with.

Later, expname could also identify the system's parameters (even if it was wrong sometimes ;) ). I still have new ideas for this library. The only trouble is that the name does not fit any more.

Well, now you have the second generation of the expname.library, called identify.library. It has been completely rewritten and expanded. The conceptional flaws of the expname.library have been removed, and a lot of new features have been added.

The library has currently these features:

- \* Converting manufacturer and product id into manufacturer name, product name, and product class.
- \* Converting the cryptical Amiga Guru codes into readable descriptions.
- \* Analyzing the system's configuration (system type, processor, memory, graphics and so on...).
- \* Converting shared library offsets into function names.

Even if the library appears to be quite ready -- it is still far from complete!

---

I need your help! Please send manufacturer and product names and IDs, your system's configuration, suggestions, bug reports and so on; simply all you want to see implemented in the library.

### 1.3 Identify-E.guide/Copyright

Copyright

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Please read this part carefully.

COPYRIGHT

This software is copyrighted by Richard Körber. That means that you are NOT ALLOWED to modify the program and documentation in any way. Especially you MUST NOT REMOVE the documentation, include files or this text file.

You are NOT allowed to use this software or any part of it for any other purpose than that one mentioned in its documentation, this also includes any fonts, images or samples. You are NOT allowed to decompile, disassemble or reverse-engineer any part of the packet. This means the expansion database in particular!

You need written permission from the author if you want to extract parts of the documentation or include files for own documentation or include files. The ONLY exception is this copyright note, which may be used freely.

FREWARE

This packet is FREWARE. You are allowed to use it without any registration fee. Note that you only have the right to use this software, but no rights on the software itself.

DISTRIBUTION

This package is freely distributable. That means you are allowed to redistribute this package as long as you follow these points:

- \* Any re-distribution has to include all files in this archive, without any modifications. You are NOT allowed to add any files to the archive. Exception: if you use the identify.library only, you do not need to distribute all related files if you write a short note in your program's documentation.
  - \* This package may be freely distributed via BBSs, InterNet/UseNet, software libraries such as Fred Fish's and Aminet CD-ROM, and other similar electronic channels.
  - \* Disk magazines and services that charge extra for file transfers may NOT distribute it without written permission from me!
  - \* You are allowed to use the expname.library even in a
-

commercial product without any written permission of me.  
Please note in your program's documentation that you're using  
identify.library by Richard Körber.

#### DISCLAIMER

By using this product, you accept the FULL responsibility for any  
damage or loss that might occur through its use or the inability to  
use it. The developer of the software can NOT be held responsible.

#### CONTENTS OF THE PACKAGE

The Identify package is only complete if these files are present:

- FILE\_ID.DIZ
- Identify.info
- Identify/Function
- Identify/Guru
- Identify/ListExp
- Identify/arexx/alert.ify
- Identify/arexx/commodities.ify
- Identify/arexx/expansions.ify
- Identify/arexx/functionname.ify
- Identify/arexx/system.ify
- Identify/arexx/versioncheck.ify
- Identify/catalogs/deutsch/Identify.catalog
- Identify/catalogs/deutsch/IdentifyTools.catalog
- Identify/catalogs/Identify.cd
- Identify/catalogs/IdentifyTools.cd
- Identify/examples/ExpansionMUI
- Identify/examples/ExpansionMUI.c
- Identify/examples/MyExp
- Identify/examples/MyExp.c
- Identify/identify.doc
- Identify/identify.doc.info
- Identify/Identify-D.dvi
- Identify/Identify-D.dvi.info
- Identify/Identify-D.guide
- Identify/Identify-D.guide.info
- Identify/Identify-E.dvi
- Identify/Identify-E.dvi.info
- Identify/Identify-E.guide
- Identify/Identify-E.guide.info
- Identify/include/identify\_lib.i
- Identify/include/clib/identify\_protos.h
- Identify/include/fd/identify\_lib.fd
- Identify/include/inline/identify.h
- Identify/include/libraries/identify.h
- Identify/include/libraries/identify.i
- Identify/include/modules/identify.m
- Identify/include/modules/identify.txt
- Identify/include/modules/libraries/identify.e
- Identify/include/modules/libraries/identify.m
- Identify/include/Pascal/identify.lib
- Identify/include/Pascal/libraries/identify.h
- Identify/include/pragmas/identify\_pragmas.h
- Identify/include/proto/identify.h
- Identify/libs/identify.library
- Identify/libs/rexxidentify.library

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## TRADEMARKS

The copyright and trademarks of all manufacturers and products mentioned are held by their respective owners.

If you do not agree with these copyright notes, you must delete the Identify packet and all related files immediately!

## 1.4 Identify-E.guide/Address

## My Address

\*\*\*\*\*

Please send all bug-reports, board descriptions, missing graphic OS, keyfiles, flames and so on to one of the following e-mail addresses:

## INTERNET

I'm reachable through Internet via these E-Mail address:

shred@chessy.aworld.de  
richard.koerber@koeln.netsurf.de

Check my home page for the latest release and other programs. The URL is:

<http://www.is-koeln.de/einwohner/shred>

## SNAIL MAIL

You can send me a snail mail letter, too. My address is:

Richard Körber  
Hornstraße 20  
51465 Bergisch Gladbach  
Germany

Please enclose a "1,10 DM" stamp if you live in Germany and want to get a reply.

## INFOLIST

You can add yourself to a information list to get notified when new versions of the library are available. Just write a mail with the subject "HELP" (body will be ignored) to:

richard.koerber@koeln.netsurf.de

This list is handled offline, so please allow some days for the reply.

## 1.5 Identify-E.guide/ListExp

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ListExp  
\*\*\*\*\*

ListExp is a small tool that was already included in the expname.library package.

It describes the hardware components of the system. On the first line it will write some hardware parameters (like CPU, Memory). After that, all expansion boards will be listed (hopefully by name).

By using the option FULL, all currently used commodities are listed too. The output is then useable for bug reports and similar.

A further option allows to get the manufacturer name, product name and class from manufacturer ID and product ID. Use the options MANUFID and PRODID to do so.

Example:

```
> ListExp MANUFID=514 PRODID=9
-- ListExp V7.0 -- by Richard Koerber
```

```
Manufacturer: Commodore West Chester
Product:      A2060
Class:        ArcNet
```

If some entries in the expansion list begin with a # instead of a name, you should send a copy of the ListExp output and the description of the missing board (manufacturer name, product name, product class) to me. :-)

Please write me if an expansion name has been guessed. You can easily recognize this by the class (guessed).

It is also not possible to check out all combinations of Amiga expansions. If your hardware is not properly recognized, please write me.

Please note: Some manufacturers, especially GVP and Phase 5, assigned the same ID to different boards. identify.library is prepared and tries to differ these boards, anyhow it can't in any case decide right.

Example:

```
ListExp FULL
```

## 1.6 Identify-E.guide/Guru

Guru  
\*\*\*\*

Guru translates the cryptical alert code into a human-readable form.

You may provide your alert code (all eight digits without any

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symbols before or behind) as parameter. An example:

```
> guru 81000005
-- Guru V1.2 -- by Richard Koerber

Alert Code: 81000005
Type:      Deadend
Subsystem: exec.library
General:   General fault
Specified: Corrupt memory list detected in FreeMem
```

Or you can pass LASTALERT. In this case, the last alert code will be examined.

Please read the results like this::

#### Alert Code

This is the alert code that has been decoded.

#### Type

What kind of alert is it? It may be a deadend alert, or a recovery alert.

#### Subsystem

Which system caused the alert?

#### General

To what general class does this alert belong? In this case, it is a general fault which must be specified later.

#### Specified

What was the cause? This example shows that the memory list has been corrupted by a badly written program.

Example:

```
Guru 81000005
```

## 1.7 Identify-E.guide/Function

### Function

\*\*\*\*\*

You can use the tool Function to decode the name of a function by providing the library name and the function offset.

The first argument is the library name, e.g. exec.library. You may also specify device or resource names here. All letters after the point (including the point itself) are optional, but it is case sensitive.

The last argument is the function offset to be decoded. It must be a multiple of 6, but it doesn't need to be signed.

Example:

```
> Function exec.library -456
```

---

```
-- Function V1.0 -- by Richard Koerber
```

```
Library:   exec.library
Offset:    -456
Function:  DoIO
```

This function requires the .fd files and an assign FD: to the drawer containing these files. The files must have the usual file name format, e.g. exec\_lib.fd.

Example:

```
Function exec.library -456
```

## 1.8 Identify-E.guide/ARexx

ARexx

\*\*\*\*\*

Since V6.0 an ARexx function library is available. You can now also use Identify in your ARexx scripts.

To do so, you just have to install the rexxidentify.library into libs:. The library is included into ARexx by using a CALL AddLib("/libs/rexxidentify.library",0,-30,0) command.

These functions are available since Release 1:

ID\_Release()

Returns the release- and version numbers of the rexxidentify.library. The format is: '<release> <version>.<revision>(<date>)' (Example: '1 1.0(23.4.97)'). You should use the <release> part to check out if a function or option is available (e.g. Word(ID\_Release(),1)). The result can also be easily split up into the single contents by using the PARSE command.

ID\_NumBoards()

Returns the number of expansion boards added to the system. You can easily construct a loop for ID\_Expansion, using this function.

ID\_Expansion(<board>,<result code>)

Returns the appropriate result to the board number <board> (0 to ID\_NumBoards()-1) and the <result code>. Result codes are:

MANUF

Manufacturer name

PROD

Product name

CLASS

Product class (localized)

ADDRESS

Memory address of the expansion (hexadecimal)

## SIZE

Reserved amount of memory for the expansion board (decimal, KBytes)

## SHUTUP

Has the expansion been shut up? (0:No, 1:Yes)

## SECONDARY

(since Release 4) Checks if the entry is primary (Result: Primary) or secondary (Result: Secondary).

## ID\_Function(&lt;library&gt;,&lt;offset&gt;)

Returns the name of the <library>'s function and the offset <offset>. See the Shell program Function.

## ID\_Alert(&lt;code&gt;,&lt;result code&gt;)

Returns the appropriate result to the alert code <code> (hexadecimal string) and the <result code>. Result codes are:

## DEAD

Deadend or Recovery?

## SUBSYS

System causing the alert

## GENERAL

General alert class

## SPEC

Specific alert class See the Shell program Guru.

## ID\_Hardware(&lt;result code&gt;)

Returns a description of the hardware. <result code> are:

## SYSTEM

Used Amiga model (e.g. Amiga 4000)

## CPU

Used CPU

## FPU

Used FPU, if available

## MMU

Used MMU, if available

## OSVER

AmigaOS ROM version

## EXECVER

exec.library version

## WBVER

Workbench version, if available

## ROMSIZE

Size of the AmigaOS ROM.

---

CHIPSET  
Available chip set (e.g. AGA)

GFXSYS  
Used graphics system (e.g. CyberGraphX)

CHIPRAM  
Total size of Chip RAM (includes virtual RAM)

FASTRAM  
Total size of Fast RAM (includes virtual RAM)

RAM  
Total size of total RAM (includes virtual RAM)

SETPATCHVER  
SetPatch version, if available.

AUDIOSYS  
Used audio system (e.g. AHI)

OSNR  
Used OS version (e.g. 3.0)

VMMCHIPRAM  
Size of virtual Chip RAM

VMMFASTRAM  
Size of virtual Fast RAM

VMMRAM  
Size of virtual RAM

PLNCHIPRAM  
Size of physical Chip RAM

PLNFASTRAM  
Size of physical Fast RAM

PLNRAM  
Size of physical RAM

VBR  
Address of the processor vectors

LASTALERT  
Last system alert

VBLANKFREQ  
VBlank interrupt frequency

POWERFREQ  
Power frequency

ECLOCK  
Special system clock's frequency

---

SLOWRAM  
Size of the A500 and A2000's special Fast RAM.

GARY  
Gary version

RAMSEY  
Ramsey version

BATTLOCK  
Battery backed up clock available?

CHUNKYPLANAR  
Does a chunky planar hardware exist?

POWERPC  
Is a PowerPC available?

PPCCLOCK  
The clock of the PowerPC, in MHz units. See also the  
AutoDocs of IdHardware().

These functions are available since Release 2:

ID\_ExpName(<manufid>,<prodid>,<result code>)  
Returns the appropriate result to the manufacturer <manufid> (0 to  
65535), product <prodid> (0 to 255) and the <result code>. Note  
that Identify cannot differ between expansions with the same  
product ID in this access mode. Result codes are:

MANUF  
Manufacturer name

PROD  
Product name

CLASS  
Product class (localized)

These functions are available since Release 4:

ID\_LockCX()  
Fetches a copy of all currently present commodities and returns a  
slot for it. You must always provide this slot to the other  
functions.

ID\_CountCX(<slot>)  
Results is the number of commodities found.

ID\_GetCX(<slot>,<nr>,<result code>)  
Returns the appropriate result to the commodity <nr> of the slot  
<slot>. Result codes are:

NAME  
Name of the commodity

TITLE  
Title of the commodity

---

DESC

A short description

GUI

Result is 1 if the commodity provides a GUI, 0 otherwise.

ACTIVE

Result is 1 if the commodity is active, 0 otherwise.

ID\_UnlockCX(<slot>)

Frees the slot. You must not use it after that!

Some example programs you'll find in the arexx drawer.

## 1.9 Identify-E.guide/Bugs

Known Bugs

\*\*\*\*\*

This is a snapshot of my current Amiga:

```
-- ListExp V7.0 -- by Richard Koerber (mailto:shred@chessy.aworld.de)
ListExp is a part of the Identify package (see AmiNet util/libs)
```

\*\* HARDWARE \*\*

```
System:  Amiga 4000 (CPU=68060 FPU=68060 MMU=68060 PowerPC=None)
Chipset:  AGA (RAMSEY F, GARY Normal, CHUNKY None) VBR=0x0803AF80
AmigaOS:  3.0 (V39.106, SetPatch V43.6)  Exec V39.47  Workbench V39.29
Support:  GraphicOS: CyberGraphX 3, AudioOS: AHI
Clock:    Power 50 Hz, VBlank 50 Hz, E-Clock 709379 Hz
```

```
Memory:
          CHIP    FAST    TOTAL ROM = 512.0KB    SLOW = 0
  PLAIN   ~2.0MB  25.5MB ~27.5MB
  VIRTUAL    0      0      0
  TOTAL   ~2.0MB  25.5MB ~27.5MB
```

\*\* EXPANSIONS \*\*

Nr	ID	Address	Size	Manufacturer	Product
1	2140.22	40000000	64M	Phase 5	CyberVision 64 Graphics
2	2140.19	00EA0000	128K	Phase 5	CyberStorm MK-II Flash-ROM
3	082C.10	00E90000	64K	BSC	Multiface II Multi I/O
4	4754.0C	00EC0000	64K	MacroSystem Germany	Toccata Audio
5	4754.05	00ED0000	64K	MacroSystem Germany	MaestroPro Audio

THESE BUGS ARE CURRENTLY KNOWN:

- \* Phase 5 and GVP have sometimes assigned one ID to two or more boards. In this case, identify.library may return a name that does not fit to the hardware.

- \* Currently, an 68030 will always be recognized with MMU.

- \* I couldn't test the Amiga analysis completely, because of missing Amiga. If your Amiga model is not properly recognized, please send me a copy of your ListExp output.
- \* A new memory list will be ignored by identify if changed after its start (e.g. by starting VMM after identify). Workaround: simply remove the identify.library from memory, e.g. with avail flush.
- \* All IDHW\_LASTALERT accesses will most probably cause an Enforcer hit "LONG-READ from 00000100". This is necessary and harmless.

## 1.10 Identify-E.guide/History

### History

\*\*\*\*\*

#### V 7.3

- \* Bugfix: GfxOS detection was broken under certain situations
- \* Added Commodities to rexxidentify.library [Domenic Gebauer]
- \* Minor DraCo bugfixes [Udo Reuchlein]
- \* Picasso96 (hopefully) is properly recognized now [Jens Langner]
- \* Added further boards.

#### V 7.2

- \* Bugfix: LowMemory handler now works fine
- \* Some minor optimizations
- \* Added IDTAG\_Secondary
- \* Added SECONDARY to rexxidentify.library
- \* Increased IdFunction() parser maximum line length, due to some lines in the cybergraphics\_lib.fd.

#### V 7.1

- \* Bugfix: rexxidentify.library returned additional Null termination [Bossman]
- \* Bugfix: LowMemory handler hangs up and is temporary disabled
- \* Added further boards.

#### V 7.0

- \* Chunky to planar hardware recognized
  - \* PowerPC recognition implemented, but not yet completed
-



- \* Added an LowMemory handler (AmigaOS V39+ only)
- \* Memory sizes are shown like in ShowConfig

## V 6.1

- \* Added further boards.
- \* Enforcer hit now only occurs on LASTALERT query.
- \* Added ARexx command EXPNAME

## V 6.0

- \* Added further boards.
- \* OS2.1 recognized properly.
- \* Some new hardware requests (VBR, Gary, RAMSEY, Slow-RAM, Frequencies, BattClock)
- \* You can list all expansions without the need to open expansion.library now
- \* IdHardwareNum() implemented: you can also request a numerical result for own evaluating purposes now
- \* localized and actualized ListExp, Function and Guru
- \* ARexx access to the library via rexxidentify.library
- \* More example programs

## V 5.2

- \* Added further boards.
- \* Wrote a small C example: using identify with MUI

## V 5.1

- \* Bugfix: did not recognize AHI properly
- \* Added further boards.
- \* Properly recognizes A500 with A570 expansion.
- \* AmigaE include files [Roger Hågensen]

## V 5.0

- \* Better Picasso96 recognition
  - \* Should now FINALLY recognize OCS/ECS Amiga with OS3.1
  - \* Added further boards.
  - \* Now also checks Audio OS and AmigaOS.
  - \* Added plain and VMM memory checkings.
-

- \* Supports shared Manufacturer IDs now.
- \* Bugfix: Enforcer hit when asking directly for an unknown expansion
- \* Gained several KB by optimizing tables, database compression and clean-ups
- \* Adapted ListExp

## V 4.4

- \* Recognizes Picasso96
- \* Added further boards.
- \* Bugfix: "-?-" printed beside guessed expansion name
- \* Bugfix: Some Amiga 1200 were recognized as "Walker" :-)

## V 4.3

- \* Recognizes CyberGraphX V3
- \* Added further boards.

## V 4.2

- \* CyberGraphX wasn't recognized properly.
- \* Added further boards.

## V 4.1

- \* Bug fix: still some problems with Amiga recognition.
- \* Picasso will be recognized.
- \* Added further boards.

## V 4.0

- \* IdFunction() implemented.
- \* New tool Function.
- \* Added further boards.
- \* Bugfix: In some cases the manufacturer name was trashed.
- \* Pascal include files (made by Axel Dörfler)
- \* Identifies SetPatch version

## V 3.1

- \* 2 boards added
  - \* Bugfix: always recognized an Amiga 3000 on ECS machines with OS3.1.
  - \* Bugfix: recognized CyberGraphX even when PictDT was installed only.
-

\* Improved memory rounding

V 3.0

\* Bases on the expname.library, but completely rewritten.

\* Now convert alert codes, too.

\* Wrote GURU.

## 1.11 Identify-E.guide/Credits

Credits

\*\*\*\*\*

I want to thank especially these fellows (in no special order):

Andreas Gelhausen

for Scout, his board list and his ideas.

Martin Wietfeld

for his great board list!

Axel Dörfler

for using Identify in XOpa, and the PASCAL includes.

Thomas Kessler

for ShowConfigEnh and his many ideas.

Geert Uytterhoeven

for his board list and the description of the GVP codes.

Roger Hågensen

for the Amiga-E include files and his hints.

Timo Ronkko

for his ingenious hint!

Colin Thompson

for his field tests, checking my translations and his useful hints.

Ferraris Luca

for his Blitz Basic 2 interface (see AmiNet  
dev/basic/IdentifyBB2.lha).

Frank Wille

for his great PhxAss assembler, his hints and all his help.

Domenic Gebauer

for cP!\_ShowConfig.

Sascha Reissner

for ToxicBoards.

Kössi

for his many boards, his help for all my TexInfo problems, and his debug skills.

...and for their contributions (sorted alphabetically):

'2bros', Daniel Adolfsson, 'ALV', Thomas Andersson, Andrija Antonijevic, Sven Arke, Jörn Asmussen, Matthias Bethke, 'Bossman', Paul Braithwaite, Dave Clarke, Gary Coleman, Gagliardini Daniel, Marcus Cai Degler, Ethan Dicks, Frank Dietrich, Norbert Dimpfl, Kevin Fairhurst, Ulrich Falke, Alexander Fichtner, Ramiro Garcia, Matthew Garrett, Domenic Gebauer, Andreas Gelhausen, Patrick Gern, Neil Griffiths, Roger Hågensen, Fred Hamilton, Michael Hartmann, Georg Hazianastasiou, Dirk Hebisch, Matthias Heilmann, Ian P.Heitmans, Gene Heskett, Patrick Hess, Torfinn Ingolfsen, Bengt Jensie, Thomas Kessler, Bernd Kösling, Bernd Kriwolat, Mario Kuban, James Kückmann, Rask Lambertsen, Jens Langner, Lutz Legero, Mika Lembke, Petter Lindquist, Mika Lundell, Gunther Mannigel, Peter Marquardt, Peter Mattsson, Mario Misic, L Mac Mullan, David Oakes, Jürgen Ofner, Jakob Ölund, Chris Painter, Oliver Peike, Markus Pietz, Heiko Polig, Giuseppe Premoli, Michael Reichenbach, Sascha Reissner, Jan Rembser, Udo Reuchlein, Kai Rode, Timo Ronkko, Gregor Rosenauer, Andre Schenk, Bodo Schulz, Thomas Schürger, Frank Seidel, Simon Shead, Karsten Soeth, Mark Sorensen, Nicholas Stallard, Teemu Suikki, Johan Sundstrom, Adam Szymczak, Patrick Thato, Colin Thompson, Henrik Tikanvaara, Jürgen Urbanek, Geert Uytterhoeven, Jarkko Vatjus-Anttila, Milco Veljanoski, Federico Villata, Christian Wasner, Pete Wason, Ralph Wermke, Henrik Wetterstrom, Martin Wietfeld, Alexander Wild, Frank Wille, Beno Zidaric, Rolf Zuercher, Alessandro Zummo.

(and all I might have forgotten!)

Keep on!

```

      //
  \\ //  -- Amiga - The Computer for Creative Mind --
  \X/

```

## 1.12 Identify-E.guide/Concept Index

Concept Index

\*\*\*\*\*

Address

Address

Alert descriptions

Guru

ARexx

ARexx

Bugs

---

	Bugs
Commercial Product	
Copyright	
Contents of the package	
Copyright	
Copyright	Copyright
Copyright note	Copyright
Credits	Credits
Decoding Library Offsets	
Function	
Disclaimer	Copyright
Distribution	Copyright
Distribution via electronic channels	
Copyright	
E-Mail	Address
FreeWare	Copyright
Function	Function
Guru	Guru
History	History
Homepage	Address
Infolist	Address
Introduction	Introduction
ListExp	ListExp
rexidentify.library	

---

ARexx

Snail Mail

Address

Trademarks

Copyright

Unknown Boards

ListExp

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