

Identify-E

COLLABORATORS

	<i>TITLE :</i> Identify-E		
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REVISION HISTORY

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Chapter 1

Identify-E

1.1 Identify-E.guide

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```

      _____
     | _ | _ _ | . | _ \ /
     | ( | ( / _ | ) | | | /   v10.2

```

== THE ORIGINAL ==

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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

Please read the following parts carefully.

If you do not agree to these Copyright notes, you must delete this archive and all related files.

COPYRIGHT

NOTE: You accept the following terms by starting the software, even for a test drive only.

Identify is (C) Copyright 1996-99 by Richard Körber. All rights reserved.

You only have the right to use the software, but no rights on the software itself. Disassembling, resourcing and all other ways of reverse engineering is forbidden. This means the expansion database in particular!

FREWARE

Identify is FreeWare. You are allowed to use the packet without paying a fee or similar to the author.

COPYING

You can copy the packet as long as it remains entire and unchanged.

You are allowed to compress the packet using a customary compression software (as lha, lzh, lzx, dms). You must not compress single files of the packet (e.g. PowerPacker or Imploder).

PARTIAL COPYING

You are allowed to add the files identify.library, rexxidentify.library and InstallIfy to your own program packet, without the need to add the whole Identify packet. In this case, you must mention in the documentation that you are using Identify by Richard Körber, and where a full Identify distribution is available.

DISTRIBUTION

You must not exceed an usual price on the market for your working

and material. This means a maximum of 5 DM (or the equivalent amount in other currencies) for disks and 35 DM for CD-ROMs containing a PD software collection.

I explicitly permit the distribution via AmiNet, Meeting Pearls, Fred Fish and other well-known PD series.

LIABILITY

You are using the program as it is, with all flaws, and on your own risk! I grant no warranty for the software meeting a special purpose. This software may cause financial damage or harm people.

LIMITATIONS

You are not allowed to use this software and its results

- * for fascism or military purposes
- * if you do not agree to the copyright note

In this case you must delete the software and all related and generated files immediately!

TRADEMARKS

All Copyrights and Trademarks are held by their owners.

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 addresses:

shred@eratosthenes.starfleet.de
richard.koerber@koeln.netsurf.de

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

<http://shredzone.home.pages.de>
<http://koeln.netsurf.de/~richard.koerber/>

SNAIL MAIL

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

Richard Körber
Überm Rost 13
51465 Bergisch Gladbach
Germany

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

get a reply.

MAILING LIST

There is an Identify mailing list existing.

To subscribe to this list, just send an E-Mail with empty subject and body to:

identify-subscribe@egroups.com

After you subscribed to this list, send your postings to:

identify@egroups.com

Note that you must subscribe if you want to post into this list. This will protect us against spamming.

The list's language is English, please keep this in mind.

SUPPORT BBS

You can also find the latest release in the official support BBS Eratosthenes.

Number:

+49-228-230083 (V.32bis, V.Fast-Class)
+49-228-239522 (V.32bis, V.34, ISDN X.75)

Login:

SUPPORT (no password required)

Board:

/SUPPORT/SHRED

Please note that even though the BBS is also to use in English, the main language is German.

1.5 Identify-E.guide/ListExp

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.

Finally, the option UPDATE forces identify to re-check all hardware information. Use this option e.g. after you started VMM.

Example:

```
> ListExp MANUFID=514 PRODID=9
-- ListExp V9.1 -- 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 symbols before or behind) as parameter. An example:

```
> guru 81000005
-- Guru V1.3 -- 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 V1.1 -- 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/System

System

identify.library analyzes your system and provides the result to the programs. If you read the different results, please keep this in mind:

SYSTEM

Describes your Amiga model, e.g. Amiga 4000. Unfortunately, it is not possible to differ between Amiga 500 and Amiga 2000. In this case, Amiga (OCS) or Amiga (ECS) will be reported.

CPU

The used CPU is returned.

CPUREV

The revision number of the CPU, if available. Currently, only the revision of the 68060 processor is available.

CPUCLOCK

The CPU clock.

FPU

The used FPU, if present.

FPUCLOCK

The FPU clock.

MMU

The used MMU, if present. Currently, a 68030 is always recognized with MMU. In this case, the result is not to be considered as a prove for a working MMU being present.

VBR

Address of the processor vector base.

CHIPSET

The available chipset, e.g. AGA.

GARY

Version of the Gary chip.

RAMSEY

Version of the Ramsey chip.

BATTCLOCK

Is a battery backed up clock available?

CHUNKYPLANAR

Is a system conformous Chunky Planar hardware available. It is not sufficient if the blitter of your graphic board has a chunky planar feature.

AGNUS

What Agnus chip revision is mounted in your system?

AGNUSMODE

What Agnus mode is selected (PAL or NTSC)?

DENISE

What Denise chip is mounted in your system?

DENISEREV

What Denise revision is it? (Usually, this is not known, or 0).

POWERPC

Which PowerPC is available?

PPCCLOCK

The PowerPC clock. Due to a bug of the ppc.library, the result can be different to the real clock. When using WarpUP, the PowerPC clock cannot be evaluated under special circumstances.

PPCOS

Shows the OS that is currently used for the PowerPC. In this version, PowerUp (Phase 5) and WarpOS (Haage&Partner) is recognized.

OSVER

The version of the AmigaOS ROM. If you mapped a ROM from a kickstart file, this version will be used.

OSNR

The (usual) version of the AmigaOS, e.g. 3.0.

EXECVER

The version of exec.

WBVER

The version of Workbench, if available.

SETPATCHVER

Version of the SetPatch command, if available.

GFXSYS

The used Graphic system, e.g. CyberGraphX. If you use multiple Graphic systems, you will only see one of them. It is also important that you have already started the system and not just installed it.

AUDIOSYS

The used Audio system, e.g. AHI.

TCPIP

If a TCP/IP stack (e.g. Miami) has been started, its name will be returned.

CHIPRAM

FASTRAM

RAM

Size of the RAM (virtual RAM included). The tilde (~) means that a small amount of the RAM is not available to the system. This

applies to the Chip RAM as well as to the total.

VMMCHIPRAM

VMMFASTRAM

VMMRAM

Size of the virtual RAM.

PLNCHIPRAM

PLNFASTRAM

PLNRAM

Size of the physical RAM. The 'Slow RAM' of the Amiga 500 and Amiga 2000 is included here as Fast RAM.

SLOWRAM

Size of the special Fast RAM on Amiga 500 and Amiga 2000.

ROMSIZE

The size of AmigaOS ROM. If you mapped a ROM file, the size of the file will be returned.

VBLANKFREQ

Frequency of VBlank interrupt.

POWERFREQ

Power frequency. This can be different to the real frequency on UAE.

ECLOCK

Frequency of a special system clock.

LASTALERT

The recent system alert.

RAMACCESS

Access time of the motherboard RAM, if available. The access time of memory expansion boards or accelerator boards are ignored.

RAMWIDTH

Bus width of the motherboard RAM. Accelerator boards are ignored.

RAMCAS

Returns the CAS mode of Chip RAM, if available.

RAMBANDWIDTH

Returns the bandwidth of Chip RAM, if available.

1.9 Identify-E.guide/Bugs

Known Bugs

This is a snapshot of my current Amiga:

```
-- ListExp V10.0 -- Richard Koerber <shred@eratosthenes.starfleet.de>
```

ListExp is a part of the Identify package (see AmiNet util/libs)

** HARDWARE **

System: Amiga 4000
 CPU: CPU=68060/50 MHz (Rev 1), FPU=68060/50 MHz, MMU=68060
 Chips: AGA (RAMSEY F, GARY Normal, CHUNKY None) VBR=0x0805C560
 Agnus: Alice 8374 Rev. 3-4 (Mode: PAL)
 Denise: Lisa 8364 (Revision: 0)
 AmigaOS: 3.1 (V40.68, SetPatch V43.6) Exec V40.10 Workbench V40.42
 Support: GraphicOS: CyberGraphX 4, AudioOS: AHI, TCP/IP: Miami
 Clock: Power 50 Hz, VBlank 50 Hz, E 709379 Hz
 RAM: Motherboard 32 bit, 60 ns, Double CAS, 4x Bandwidth

Memory: CHIP FAST TOTAL ROM = 512.0KB SLOW = 0
 PLAIN ~2.0MB 42.0MB ~44.0MB
 VIRTUAL 0 0 0
 TOTAL ~2.0MB 42.0MB ~44.0MB

** EXPANSIONS **

Nr	ID	Address	Size	Manufacturer	Product
1	2140.22	40000000	64MB	Phase 5	CyberVision 64 Graphics
2	2140.19	00EA0000	128KB	Phase 5	CyberStorm '060 MK-II Flash- ←
		ROM			
3	082C.10	00E90000	64KB	BSC	Multiface II Multi I/O
4	4754.0C	00EC0000	64KB	MacroSystem Germany	Toccata Audio
5	4754.05	00ED0000	64KB	MacroSystem Germany	MaestroPro Audio
6	0877.CA	00EE0000	64KB	VillageTronic	Ariadne II Ethernet

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.

1.10 Identify-E.guide/FAQ

Frequently Asked Questions

An enforcer hit occurs while analysing the system.

This hit is necessary on some systems to read the last alert code.
 It is harmless.

The CPU/FPU clock isn't accurate.

Measuring the clock requires real Fast RAM for best results, else there may occur major faults.

The PowerPC clock isn't accurate.

This is a bug in the ppc.library.

The PowerPC clock isn't available.

This occurs with some processors using WarpOS.

The system crashes at system queries (e.g. ListExp).

Make sure that you have not installed the ppc.library if you do not really have a PowerPC.

Where can I find another FAQ?

On my home page: <http://shredzone.home.pages.de>

1.11 Identify-E.guide/History

History

V 10.2

- * Added further boards

V 10.1

- * CyberGraphX 4 and GENESiS supported
- * Added further boards

V 10.0

- * Now the last alert is read by blitter if available. This step was necessary because all those "bug reports" were really annoying. ;) [Idea by Jilles Tjoelker]
- * Denise is identified now [Himanshu Gohel]
- * Updated ListExp
- * Added further boards

V 9.3

- * Improved Amiga 4000T recognition [Dave Clarke]
- * Added further boards

V 9.2

- * Improved PowerUp/WarpOS recognition [Sebastian Becker]
- * Added further boards

V 9.1

- * Minor docs revision
- * IDHW_TCPIP is not cached
- * Added further boards
- * Corrected FILE_ID.DIZ [Domenic Gebauer]

V 9.0

- * Divided into developer and user packet
- * identify.library 68020 version
- * Added further boards
- * Improved clock measurement
- * IDHW_TCPIP, IDHW_PPCOS, IDHW_AGNUS, IDHW_AGNUSMODE implemented
- * IdFunction() now also searches include:fd/
- * Recognizes Amiga 500 with Viper 520 CD correctly [Gerald Schnabel]
- * Recognizes Amiga 4000 Tower [Jan Jampolski]
- * WarpOS supported
- * Wrote InstallIfy

V 8.2

- * Added further boards
- * Improved UAE recognition
- * Improved 68060 compatibility
- * Visibly shortened by several optimizations

V 8.1

- * Improved SlowRAM recognition
- * Implemented IdHardwareUpdate()
- * Implemented motherboard RAM tests (RAMACCESS, RAMWIDTH, RAMCAS, RAMBANDWIDTH)
- * Removed stupid IDHW_VBR and IDHW_LASTALERT caching
- * ListExp actualized

V 8.0

- * Bugfix: IdFunction produced mungwall hits on oversized lines
 - * Bugfix: VMM messed up the memory results
 - * IdExpansion speed improvement
 - * IDTAG_ClassID returns numerical board's class code [Jens Langner]
 - * IDTAG_Localize returns builtin language only, if TRUE
 - * IDTAG_NULL4NA returns NULL ptr instead of "N/A" string
 - * IDHW_CPUREV returns the revision of the main CPU
-

- * IDHW_CPUCLOCK, IDHW_FPUCLOCK returns the clock frequencies
- * Reorganized the catalog files
- * UAE recognition implemented
- * Updated ListExp and rexxidentify.library
- * Added .ct files for translation

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.
-

1.12 Identify-E.guide/Users

Users

These programs are already using the identify.library:

batsi

Author: Chris Young
AmiNet: util/moni/batsi.lha
E-Mail: unsatisfactory@bigfoot.com

cP!_ShowConfig

Author: Domenic Gebauer
AmiNet: util/wb/cP_ShowConfig.lha
E-Mail: campino@gmx.net

Custom_CTCP - Extension CTCP commands for AmIRC

Author: Don Clifton (Bossman^)
AmiNet: comm/irc/CCTCPv??.lha
E-Mail: bosman@erols.com

eTeacher

Author: W.F.M.H. and Krzysiek Jonko
AmiNet: biz/demo/eTeacher.lha
E-Mail: info@amiga.com.pl

EuraTools Register

Author: Richard Körber
AmiNet: util/misc/EuraTools.lha
E-Mail: shred@eratosthenes.starfleet.de

IdentifyBB2

Author: Ferraris Luca
AmiNet: dev/basic/IdentifyBB2.lha
E-Mail: ferraris.luca@educ.di.unito.it

P96Speed

Author: Jens Langner
AmiNet: gfx/board/P96Speed.lha
E-Mail: deck@rcs.urz.tu-dresden.de

Scout

Author: Andreas Gelhausen, Richard Körber
AmiNet: util/moni/Scout.lha
E-Mail: shred@eratosthenes.starfleet.de

ShowSystem

Author: Jarmo Laakkonen
AmiNet: util/moni/showsystem.lha
E-Mail: jami@dlc.fi

SL!-BoxStatus

Author: Sascha Sauer
AmiNet: comm/bbs/SL-BS??.lha
E-Mail: SPACEMAN@SPACELND.ruhr.de

SIP

Author: Andreas R. Kleinert
AmiNet: util/moni/SIP.lha
E-Mail: Andreas_Kleinert@t-online.de

SystemPrefs

Author: Richard Körber
AmiNet: util/wb/SytemPrefs.lha
E-Mail: shred@eratosthenes.starfleet.de

ToxicBoards

Author: Sascha Reissner
AmiNet: comm/cnet/TBoards??.lha
E-Mail: sascha@toxic.franken.de

What Config

Author: Christian Vigård
AmiNet: util/misc/WCv??.lha
E-Mail: vigard@hem2.passagen.se

XOpa

Author: Axel Dörfler, Alexander Bartz
AmiNet: util/moni/XOpal_??.lha
E-Mail: axeld@ax.westfalen.de

Your program is missing? Write me!

1.13 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.

Frank Wille
for his great PhxAss assembler, his hints and all his help,
especially for the WarpOS PPC clock source.

Thomas Kessler
for 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.

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for their untiring help.

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for his genious hint!

Colin Thompson

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

Kössi

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(and all I might have forgotten!)

Keep on!

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1.14 Identify-E.guide/Concept Index

Concept Index

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