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Please read the Copyright chapter!

1 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 may already be known to you.

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 has been removed, and a lot of newbies 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 away!

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.

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

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3 My Address

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

INTERNET

I'm reachable trough Internet via these E-Mail address: shred@chessy.aworld.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 DM" stamp if you live in Germany and want to get a reply.

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4 ListExp

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

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

By the option FULL, all currently used commodities are listed up, 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 V3.0 -- 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. :-)

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.

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5 Guru

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

The only parameter is the alert code (all eight digits without any symbols before or behind). An example:

```
> guru 81000005
-- Guru V1.0 -- by Richard Koerber

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

Please understand the result like that:

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 bad-written program.

7

6 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 give 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'.

Appendix A Known Bugs

My Amiga:

** HARDWARE **

System: Amiga 4000 (CPU=68060 FPU=68060 MMU=68060 Chipset=AGA)
AmigaOS: V39.106 (SetPatch V43.4) Exec V39.47 Workbench V39.29

Graphic OS: CyberGraphX

Memory: Chip 2MB + Fast 26MB = TOTAL 28MB ROM = 512KB

** EXPANSIONS **

Nr ID	Address	Size Manu	facturer	Product	
1 2140	.22 40000000	64M Phase	e 5	CyberVision 64 Graphik	
2 2140.	19 00EA0000	128K Phase	e 5	CyberStorm Flash-ROM	
3 082C.	10 00E90000	64K BSC/	AlfaData	Multiface II Multi-I/O	
4 4754.	OC 00EC0000	64K Macro	oSystem Germany	Toccata Audio	
5 4754.	.05 00ED0000	64K Macro	System 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 only 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.

Appendix B History

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.

Appendix C Credits

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

Andreas Gelhausen

for Scout, his board list and his ideas.

Thomas Kessler

for ShowConfigEnh and his many ideas.

Geert Uytterhoeven

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

Axel Dörfler

for the PASCAL includes.

Colin Thompson

for his field testings and his useful hints.

Frank Wille

for his great PhxAss assembler, and his hints!

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):

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Keep on!

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