

expname.library

A system shared library that decodes product and manufacturer ID
Version 2.2, Release 19 April 1996

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Please read the Copyright chapter first!

1 Introduction

This system shared library is able to decode the manufacturer ID and product ID of expansion boards. If the name of this board is known, it is returned as string; otherwise you will receive a string containing the decimal value of the ID, introduced by a '#’.

Though there are already a lot of names known, I still rely on your help. Please send the manufacturer name and id and the product name and id of as much boards as possible! :-)

By the way: I have the feeling, some of you think that ListExp is the main part of this archive. This was not my intention! ListExp is only a small demonstration tool. The main part of the archive is the expname.library itself. You can use it in your own programs to decode as much board IDs as possible. Of course you can keep on using ListExp only if you like! :-)

2 Copyright

NOTE Hereby, i forbid Torsten Bach to further use my documentation and include files of this and all previous versions!

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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 ExpName package is *only* complete if these files are present:

```
ExpName/expname.doc
ExpName/ExpName-D.dvi
ExpName/ExpName-D.guide
ExpName/ExpName-E.dvi
ExpName/ExpName-E.guide
ExpName/ListExp
ExpName/include/expname_lib.i
ExpName/include/fd/expname_lib.fd
ExpName/include/inline/expname.h
ExpName/include/libraries/expname.h
ExpName/include/libraries/expname.i
ExpName/include/pragmas/expname_pragmas.h
ExpName/include/proto/expname_protos.h
ExpName/libs/boards.library
ExpName/libs/expname.library
ExpName.info
FILE_ID.DIZ
```

TRADEMARKS

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

If you do not agree with these copyright notes, you have to delete the ExpName packet and all related files immediately!

3 My Address

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

rkoerber@tfh.dssd.sub.org
 shred@eratosth.dssd.sub.org
 a2h4ko@bg.bib.de (until September 1996 only)

You can also visit my home page (until September 1996 only):

<http://www.bg.bib.de/~a2h4ko>

SNAIL MAIL

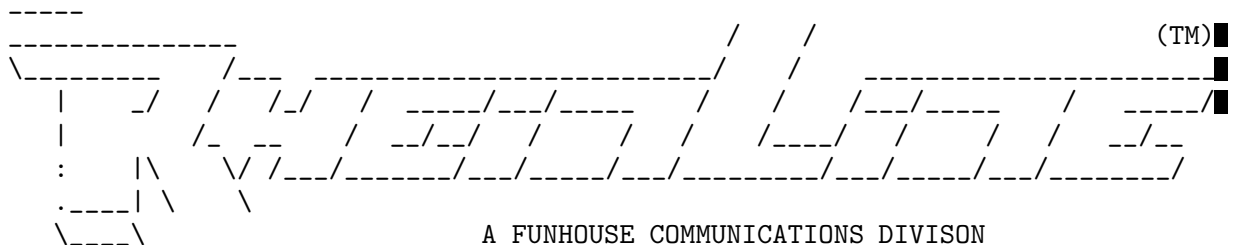
You can send me a snail mail letter, too. My address is:

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.

SUPPORT MAILBOX

You can get the latest releases from my support bbs:



Port 01: +49 (0)2204 - 61630 19.200	Port 02: +49 (0)2204 / 61499 19.200
Port 03: +49 (0)2204 - 23856 28.800	Port 04: +49 (0)2204 / 61032 28.800
Port 05: +49 (0)2204 - 61033 28.800	Port 06: +49 (0)2204 / 61034 14.400
Port 07: +49 (0)2204 - 61035 16.800	Port 08: +49 (0)2204 / POINT 14.400
Port 09: +49 (0)2204 - 962121 64.000	Port 10: +49 (0)2204 / 962122 64.000

4 Usage

It is very simple to use the `expname.library`.

If you want to get the name of a special expansion board, you can pass the manufacturer ID and product ID directly to `GetExpName()`. It is mandatory to provide `NULL` as a pointer to the `ConfigDev` parameter if you want to do so...

If you want to get the name of all expansion boards or of a special expansion board, you have to get a `ConfigDev` structure first. Pass this structure to `GetExpName()`, and voila... :-)

Additionally, `expname.library V2+` offers to query system parameters like OS version, processor or memory size. To do so, you need to call `GetSysInfo()`, providing a buffer space and the ID code of the information you want to receive (see include file).

It is really that simple!

5 ListExp

ListExp is a small tool (my first one written in C ;-)) which uses the `expname.library`. It lists all connected expansion boards, shows their names (if possible), their address and their size.

Try it out to see what `expname.library` can do. If there are entries which are introduced by a '#' instead of a name, you should send ASAP a description of the missing board to me... :-)

6 boards.library

Recently Torsten Bach released `boards.library` in AmiNet.

Except of the program code, Version 1.0 is a simple copy of the `expname.library`! Large parts of the documentation and include files are copied, with the names replaced by Search&Replace.

The program code is faulty. The library returns `TRUE` if the manufacturer or board is unknown, and `FALSE` if both were known. This is the opposite of what the Autodocs say.

Additionally, his pragma file is useless.

The `boards.library` provided in this package, is a replacement of the `boards.library` of Torsten Bach. Internally, it uses `expname.library`, ensuring full future compatibility.

Appendix A Autodoc

NAME GetExpName — get name of expansion board

SYNOPSIS

```

Success = GetExpName(ManufName, ProdName, ConfigDev, Manufacturer,
DO.1          AO.1   A1.1   A2.1   DO.w
                Product)
                D1.b

```

```

ULONG GetExpName(STRPTR, STRPTR, struct ConfigDev*, UWORD, UBYTE);

```

FUNCTION

Gets the name of the expansion and it's manufacturer.

INPUTS

ManufName

String to be filled with the manufacturer name. Must be at least 50 chars long (termination included).

ProdName

String to be filled with the product name. Must be at least 50 chars long (termination included).

ConfigDev

Pointer to ConfigDev structure (from `expansion.library`) or NULL.

Manufacturer

ID of the board's manufacturer, if ConfigDev is NULL.

Product

ID of the board's product number (depends on manufacturer), if ConfigDev is NULL.

RESULT

Success

True if both manufacturer and product are known. False if one of them was not known.

NOTE

If the manufacturer or the product is not known, the string will be filled with its number. I.e. it is NOT a real fault if this function fails; the strings can be used in any case...

If you provide a ConfigDev structure, `expname.library` may in some cases find out the name of a board even if it is not implemented.

This call is guaranteed to preserve all registers except D0.

BUGS

There are by far not all existing boards implemented. Please send the manufacturer id and name and the products id and name of all unknown boards to me. My E-Mail: rkoerber@tfh.dssd.sub.org.

SEE ALSO

NAME GetSysInfo — get information about the system (V2)

SYNOPSIS

```

Buffer = GetSysInfo(Buffer,Type,Reserved)
D0.1                            A0.1  D0.1  D1.1

STRPTR GetSysInfo(STRPTR,ULONG,ULONG);

```

FUNCTION

Gets information about the current system environment. This function is fully DraCo compatible!

INPUTS

Buffer String to be filled with the information string. Must be at least 50 chars long (including termination).

Type Information type. These types are known in V2:

EXPTYPE_SYSTEM

What system is used?
("Amiga","DraCo")

EXPTYPE_CPU

What kind of CPU is available?
(68000,68010,68020,...68060)

EXPTYPE_FPU

What kind of FPU is available?
(—,68881,68882,68040,68060)

EXPTYPE_MMU

What kind of MMU is available?
(—,68852,68030,68040,68060)

EXPTYPE_OSVER

What OS version is used?
(e.g. "V39.106")

EXPTYPE_EXECVER

What exec version is used?
(e.g. "V39.47")

EXPTYPE_WBVER

What WorkBench version is used?
(e.g. "V39.29", "—" if not available)

EXPTYPE_ROMSIZE

Size of AmigaOS ROM
(e.g. "512KB")

EXPTYPE_CHIPSET

What Chipset is available?
(e.g. "ECS", "AGA", "DraCo")

EXPTYPE_GFXSYS

What Graphic Board System is used?
(e.g. "CyberGraphX")

EXPTYPE_CHIPRAM

Size of complete Chip RAM
(e.g. "~2MB")

EXPTYPE_FASTRAM

Size of complete Fast RAM
(e.g. "12MB")

EXPTYPE_RAM

Size of complete System RAM
(e.g. "~14MB")

Reserved Reserved for future use, always provide 0 here!

RESULT

Buffer Pointer to the provided buffer if everything went fine, NULL otherwise.

NOTE This call is guaranteed to preserve all registers except D0.

BUGS**SEE ALSO**

Appendix B Known bugs

ExpName was written on an Amiga 4000/o3o/882/MMU, Kick 3.0, 14 MB RAM, FastLane 1GB HD, MaestroPro, Toccata, BSC MultiIO, CyberVision 4MB.

THESE BUGS ARE CURRENTLY KNOWN

Some of the manufacturers have assigned one ID to two different boards. In this case, expname.library could result a board name that does not match to your hardware. Though it is not my fault, I'll try a bugfix very soon.

THESE ENFORCER HITS OR MUNGWALL HITS ARE KNOWN

None :^)

Appendix C History

V 1.0

- First release
- 4 boards implemented

V 1.1

- 18 boards implemented

V 1.2

- 27 boards implemented

V 1.3

- 28 boards implemented
- Faster search algorithm
- Improved ListExp: shows board size and if board is shut down

V 1.4

- 47 boards implemented

V 1.5

- 76 boards implemented
- ListExp: now it should work correctly if `expname.library` is not available

V 1.6

- 132 boards implemented
- Added an algorithm that tries to find out the name of the expansion board if no product name is available.
- Added GCC inline include file.
- Revised the documentation
- Translated documentation into Texinfo.
- German version of the documentation is available

V 2.0

- 157 boards implemented
- New function `GetSysInfo()`: returns information strings about the system.
- ListExp improved to the new features
- GCC inline was faulty.

V 2.1

- 160 boards implemented

- Bugfix: ShowConfig crashed after starting V2.0 of this library
- GetSysInfo() now returns information about memory size
- boards.library replacement written

V 2.2

- 161 boards implemented
- Bugfix: expname crashed on unknown boards or manufacturers

Appendix D Credits

I wish to send my best regards to the following people:

Sven Arke for supporting me with his BBS

Kössi for his plenty of boards, his TexInfo help and his debugging talent!

Thomas Kessler
for ShowConfigEnh and his ideas.

Amiga Technologies
for the Amiga revival. You're doing a VERY good job! Keep on...

...and for their contributions (in order of appearance):

Norbert Dimpfl, Markus Pietz, Kai Rode, Martin Wietfeld, Thomas Andersson, Jörn Asmussen, Lutz Legero, Mika Lundell, Jürgen Ofner, Thomas Schürger, 'ALV', Gunther Mannigel, Heiko Polig, Chris Painter, Patrick Thato, Rask Lambertsen, Jan Rembser, Michael Hartmann, Petter Lindquist, Johan Sundstrom, Ralph Wermke, Alexander Fichtner, Matthias Bethke, Fred Hamilton, Andre Schenk, Daniel Adolfsson, Geert Uytterhoeven, Colin Thompson, Bernd Kösling, Milco Veljanoski, Patrick Hess, Beno Zidaric, Ramiro Garcia

`boards.library` is from Torsten Bach.

```

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

```

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