expname.library

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

Richard Körber

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!

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 any part of the packet.

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This packet is FREEWARE. 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.

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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 expname.library only, you do not need to distribute all related files if you write a short note into 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.

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- 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 expname.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 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)
```

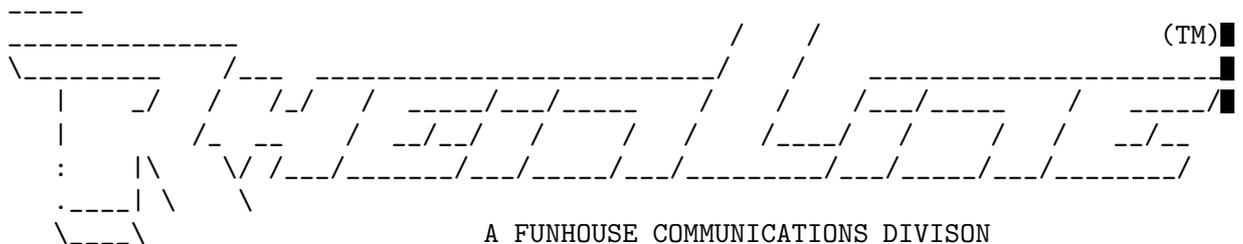You can also visit my home page (until September 1996 only):

```
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:

```
  -----
  --------------                                      /  /                    (TM)█
_____    /___  _____/  /  _____█
   |   _/  /  /_/  /  ____/__/_____    /   /   /__/_____    /  ____/█
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   \____\                   A FUNHOUSE COMMUNICATIONS DIVISON

  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 compatibelity.

Appendix A Autodoc

NAME   GetExpName — get name of expansion board

SYNOPSIS

```
         Success = GetExpName(ManufName,ProdName,ConfigDev,Manufacturer,
          D0.l                   A0.l    A1.l      A2.l       D0.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.l                 A0.l  D0.l   D1.l

          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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