

# **expname.library**

---

A system shared library that decodes product and manufacturer ID  
Version 2.3, Release 28 April 1996

**Richard Körber**

---

Copyright © 1995-96 by Richard Körber

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! :-)

These programs are known to use `expname.library`:

`ListExp`    A ShowConfig replacement.

`ShowConfigEnh`

    Patches the original ShowConfig to recognize expansions using `expname.library`.

`SystemPrefs`

    Configures your CPU, RAMSEY and CIA comfortably by a preferences editor. Supports 68060 and DraCo.

**Note:** I'll stop `boards.library` support from now on, regarding the explicit request of the author.

## 2 Copyright

### **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.

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

### **FREWARE**

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.

### **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 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.
- Disk magazines and services that charge extra for file transfers may NOT distribute it without written permission by the developer!
- 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.doc.info
ExpName/ExpName-D.dvi
ExpName/ExpName-D.dvi.info
ExpName/ExpName-D.guide
ExpName/ExpName-D.guide.info
ExpName/ExpName-E.dvi
ExpName/ExpName-E.dvi.info
ExpName/ExpName-E.guide
ExpName/ExpName-E.guide.info
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/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

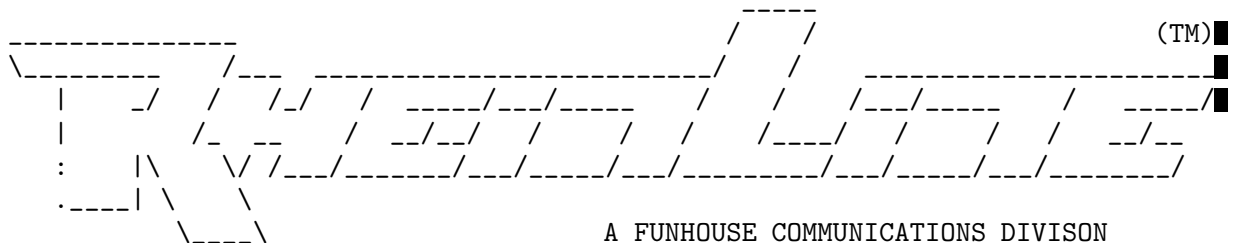
You can send me a snail mail letter, too. My address is:

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... :-)



## 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](mailto: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

**V 2.3**

- 166 boards implemented
- improved FPU recognition
- OS version now supports SKick [Federico Villata]
- boards.library replacement is not supported any more (explicit request of it's author)

## Appendix D Credits

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

**Sven Arke** for supporting me with his BBS

**Frank Wille**

for the marvellous `PhxAss` assembler.

**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, Jens Langner, Dirk Heibisch, Henrik Tikanvaara, Sascha Reissner, Jakob Ölund, Bengt Jensie, Dave Clarke, '2bros', Peter Mattsson, Henrik Wetterstrom, Federico Villata

```

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

```



# Concept Index

## A

Address .....	4
Autodoc .....	7

## B

Bugs .....	11
------------	----

## C

Commercial Product .....	2
Contents of the package .....	2
Copyright .....	2
Copyright note .....	2
Credits .....	14

## D

Disclaimer .....	2
Distribution .....	2
Distribution via electronic channels .....	2

## E

E-Mail .....	4
--------------	---

## F

FreeWare .....	2
----------------	---

## H

History .....	12
---------------	----

## I

Introduction .....	1
--------------------	---

## L

ListExp .....	6
---------------	---

## S

Snail Mail .....	4
Support Mailbox .....	4

## T

Trademarks .....	3
------------------	---

## U

Unknown Boards .....	6
Usage .....	5

## Table of Contents

<b>1</b>	<b>Introduction</b> .....	<b>1</b>
<b>2</b>	<b>Copyright</b> .....	<b>2</b>
<b>3</b>	<b>My Address</b> .....	<b>4</b>
<b>4</b>	<b>Usage</b> .....	<b>5</b>
<b>5</b>	<b>ListExp</b> .....	<b>6</b>
<b>Appendix A</b>	<b>Autodoc</b> .....	<b>7</b>
<b>Appendix B</b>	<b>Known bugs</b> .....	<b>11</b>
<b>Appendix C</b>	<b>History</b> .....	<b>12</b>
<b>Appendix D</b>	<b>Credits</b> .....	<b>14</b>
	<b>Concept Index</b> .....	<b>15</b>