Identify-E

	COLLABORATORS			
	TITLE : Identify-E			
ACTION	*NAME*	*DATE*	*SIGNATURE*	
WRITTEN BY		August 5, 2022		

REVISION HISTORY			
NUMBER	DATE	DESCRIPTION	NAME

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Chapter 1

Identify-E

1.1 Identify-E.guide

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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 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.

1.3 Identify-E.guide/Copyright

```
Copyright
*********
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   Please read this part carefully.

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. This means the database in
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     You need a written permission from the author if you want to
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     *   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
        identify.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
        identify.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 Identify package is only complete if these files are present:
             Identify/catalogs/deutsch/Identify.catalog
             Identify/catalogs/Identify.cd
             Identify/identify.doc

```
                    Identify/identify.doc.info
                    Identify/Identify-D.dvi
                    Identify/Identify-D.dvi.info
                    Identify/Identify-D.guide
                    Identify/Identify-D.guide.info
                    Identify/Identify-E.dvi
                    Identify/Identify-E.dvi.info
                    Identify/Identify-E.guide
                    Identify/Identify-E.guide.info
                    Identify/include/identify_lib.i
                    Identify/include/fd/identify_lib.fd
                    Identify/include/inline/identify.h
                    Identify/include/libraries/identify.h
                    Identify/include/libraries/identify.i
                    Identify/include/Pascal/identify.lib
                    Identify/include/Pascal/libraries/identify.h
                    Identify/include/pragmas/identify_pragmas.h
                    Identify/include/proto/identify_protos.h
                    Identify/libs/expname.library
                    Identify/libs/identify.library
                    Identify/Function
                    Identify/Guru
                    Identify/ListExp
                    Identify.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 Identify packet and all related files immediately!

1.4 Identify-E.guide/Address

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 addresses:

          shred@chessy.aworld.de
          rkoerber@tfh.dssd.sub.org

     You can also visit my home page (until September 1996 only). There
     you'll find the latest version of all my software.

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

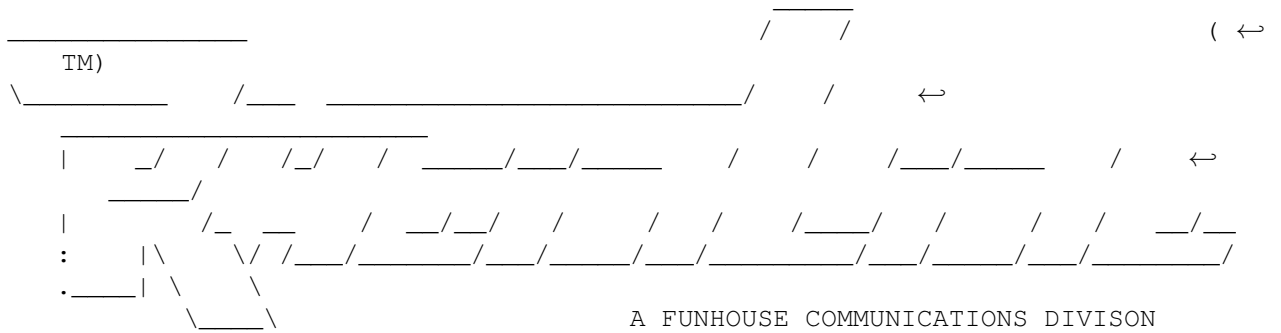SNAIL MAIL

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 download the latest version from my support BBS:

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        .____| \     \
              \_____\                            A FUNHOUSE COMMUNICATIONS DIVISON
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    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

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. 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.

```
   Example:
 ListExp FULL
```

1.6 Identify-E.guide/Guru

```
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.

      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 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.

   Example:
 Function exec.library -456
```

1.8 Identify-E.guide/Bugs

```
Known Bugs
**********

   My Amiga:

     ** HARDWARE **

     System:     Amiga 4000 (CPU=68030 FPU=68882 MMU=68030 Chipset=AGA)
```

```
    AmigaOS:    V39.106 (SetPatch V40.16)   Exec V39.47   Workbench V39.29
    Graphic OS: CyberGraphX
    Memory:     Chip 2MB + Fast 12MB = TOTAL 14MB   ROM = 512KB


    ** EXPANSIONS **

    Nr ID        Address   Size Manufacturer         Product
    --------------------------------------------------------------------------
     1 082C.10 00E90000  64K BSC/AlfaData          Multiface II Multi I/O
     2 2140.22 40000000  64M Phase 5               CyberVision 64 Graphic
     3 4754.05 00EA0000  64K MacroSystem Germany   MaestroPro Audio
     4 4754.0C 00EB0000  64K MacroSystem Germany   Toccata Audio
     5 2140.0A 44000000   4M Phase 5               FastLane Z3 RAM expansion
     6 2140.0B 48000000  32M Phase 5               FastLane Z3 SCSI host adapter
```

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.

1.9 Identify-E.guide/History

```
History
*******
```

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.
```

1.10   Identify-E.guide/Credits

```
Credits
*******
```

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

```
Sven Arke
     for his support with his BBS.

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 great 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):

   '2bros', Daniel Adolfsson, 'ALV', Thomas Andersson, Jörn Asmussen,
Matthias Bethke, Paul Braithwaite, Dave Clarke, Gary Coleman, Ethan
Dicks, Frank Dietrich, Norbert Dimpfl, Kevin Fairhurst, Ulrich Falke,
Alexander Fichtner, Ramiro Garcia, Andreas Gelhausen, Neil Griffiths,
Fred Hamilton, Michael Hartmann, Georg Hazianastasiou, Dirk Hebisch,
Matthias Heilmann, Ian P.Heitmans, Gene Heskett, Patrick Hess, Torfinn
Ingolfsen, Bengt Jensie, Thomas Kessler, Bernd Kösling, James
Kückmann, Rask Lambertsen, Jens Langner, Lutz Legero, Mika Lembke,
Petter Lindquist, Mika Lundell, Gunther Mannigel, Peter Mattsson, L Mac

Mullan, David Oakes, Jürgen Ofner, Jakob Ölund, Chris Painter, Oliver
Peike, Markus Pietz, Heiko Polig, Giuseppe Premoli, Michael Reichenbach,
Sascha Reissner, Jan Rembser, Kai Rode, Gregor Rosenauer, Andre Schenk,
Thomas Schürger, Simon Shead, Karsten Soeth, Mark Sorensen, Nicholas
Stallard, Teemu Suikki, Johan Sundstrom, Adam Szymczak, Patrick Thato,
Colin Thompson, Henrik Tikanvaara, Geert Uytterhoeven, Jarkko
Vatjus-Anttila, Milco Veljanoski, Federico Villata, Christian Wasner,
Pete Wason, Ralph Wermke, Henrik Wetterstrom, Martin Wietfeld, Frank
Wille, Alexander Wild, Beno Zidaric, Rolf Zuercher.

    Keep on!

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


1.11 Identify-E.guide/Concept Index

```
            Concept Index
*************


         Address
                                   Address

         Alert descriptions
                        Guru

         Bugs
                                      Bugs

         Commercial Product
                     Copyright

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                                 Copyright

         Copyright note
                        Copyright

         Credits
                              Credits

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                  Function

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