Identify-E

COLLABORATORS			

	TITLE : Identify-E		
ACTION	*NAME*	*DATE*	*SIGNATURE*
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REVISION HISTORY			

NUMBER	DATE	DESCRIPTION	NAME

Contents

Chapter 1

Identify-E

1.1   Identify-E.guide

```
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          == THE ORIGINAL ==
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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 you may already be familiar with.

   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 have been removed, and a
lot of new features 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
from complete!

   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, disassemble or reverse-engineer any part of the packet.
     This means the expansion database in particular!

     You need written permission from the author if you want to extract
     parts of the documentation or include files for own documentation
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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
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     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
           identify.library only, you do not need to distribute all
           related files if you write a short note in 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
           from me!

         * 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/examples/Expansions
          Identify/examples/Expansions.c
          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/modules/identify.m
          Identify/include/modules/libraries/identify.m
          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 respective owners.

   If you do not agree with these copyright notes, you must delete the
Identify packet and all related files immediately!
```

1.4 Identify-E.guide/Address

```
My Address
**********

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

```
INTERNET
    I'm reachable through 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.
```

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. On the first
line it will write some hardware parameters (like CPU, Memory). After
that, all expansion boards will be listed (hopefully by name).

   By using the option FULL, all currently used commodities are listed
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 V5.0 -- 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. :-)
```

Please write me if an expansion name has been guessed. You can
easily recognize this by the class (guessed).

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 read the results like this::

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 badly 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 specify 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=68060 FPU=68060 MMU=68060 Chipset=AGA)
     AmigaOS:    3.0 (V39.106, SetPatch V43.4)   Exec V39.47   Workbench V39.29
     Graphic OS: CyberGraphX
     Audio OS:   Maestix
     Memory:                 CHIP    FAST    TOTAL    ROM = 512KB
                 PLAIN       2MB     26MB    28MB
                 VMM         0       0       0
                 TOTAL       2MB     26MB    28MB


     ** EXPANSIONS **

     Nr ID      Address  Size Manufacturer         Product
     -------------------------------------------------------------------------
```

```
      1 2140.22 40000000  64M Phase 5               CyberVision 64 Graphik
      2 2140.19 00EA0000 128K Phase 5               CyberStorm MK-II Flash-ROM
      3 082C.10 00E90000  64K BSC/AlfaData           Multiface II Multi-I/O
      4 4754.0C 00EC0000  64K MacroSystem Germany    Toccata Audio
      5 4754.05 00ED0000  64K MacroSystem 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.

        * OCS/ECS Amiga with OS3.1 were always recognized as A3000 in
          the last versions. I hope this is fixed now.

        * 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.

        * A new memory list will be ignored by identify if changed after
          its start (e.g. by starting VMM after identify). Workaround:
          simply remove the identify.library from memory, e.g. with
          avail flush.

1.9 Identify-E.guide/History

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

V 5.2
        * Added further boards.

        * Wrote a small C example: using identify with MUI

V 5.1
        * Bugfix: did not recognize AHI properly

        * Added further boards.

        * Properly recognizes A500 with A570 expansion.

        * AmigaE include files [Roger Hågensen]

V 5.0
        * Better Picasso96 recognition

        * Should now FINALLY recognize OCS/ECS Amiga with OS3.1

        * Added further boards.

        * Now also checks Audio OS and AmigaOS.

        * Added plain and VMM memory checkings.

* Supports shared Manufacturer IDs now.

* Bugfix: Enforcer hit when asking directly for an unknown
  expansion

* Gained several KB by optimizing tables, database compression
  and clean-ups

* Adapted ListExp

V 4.4

* Recognizes Picasso96

* Added further boards.

* Bugfix: "-?-" printed beside guessed expansion name

* Bugfix: Some Amiga 1200 were recognized as "Walker" :-)

V 4.3

* Recognizes CyberGraphX V3

* Added further boards.

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.
```

1.10 Identify-E.guide/Credits

```
Credits
*******

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

Andreas Gelhausen
     for Scout, his board list and his ideas.

Martin Wietfeld
     for his great board list!

Axel Dörfler
     for using Identify in XOpa, and the PASCAL includes.

Thomas Kessler
     for ShowConfigEnh and his many ideas.

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

Roger Hågensen
     for the Amiga-E include files.

Timo Ronkko
     for his genious hint!

Colin Thompson
     for his field tests, checking my translations 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):
```

'2bros', Daniel Adolfsson, 'ALV', Thomas Andersson, Sven Arke, Jörn
Asmussen, Matthias Bethke, Paul Braithwaite, Dave Clarke, Gary Coleman,
Gagliardini Daniel, Marcus Cai Degler, Ethan Dicks, Frank Dietrich,
Norbert Dimpfl, Kevin Fairhurst, Ulrich Falke, Alexander Fichtner,
Ramiro Garcia, Andreas Gelhausen, Patrick Gern, Neil Griffiths, Roger
Hågensen, 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, Mario
Kuban, James Kückmann, Rask Lambertsen, Jens Langner, Lutz Legero,
Mika Lembke, Petter Lindquist, Mika Lundell, Gunther Mannigel, Peter
Mattsson, Mario Misic, 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,
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Thomas Schürger, Simon Shead, Karsten Soeth, Mark Sorensen, Nicholas
Stallard, Teemu Suikki, Johan Sundstrom, Adam Szymczak, Patrick Thato,
Colin Thompson, Henrik Tikanvaara, Jürgen Urbanek, 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!

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

1.11 Identify-E.guide/Concept Index

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

```
          Address
                                        Address

          Alert descriptions
                            Guru

          Bugs
                                                  Bugs

          Commercial Product
                            Copyright

          Contents of the package
                      Copyright

          Copyright
                                        Copyright

          Copyright note
                            Copyright
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