Identify-E

COLLABORATORS			
	TITLE : Identify-E		
ACTION	*NAME*	*DATE*	*SIGNATURE*
WRITTEN BY		January 23, 2025	

REVISION HISTORY			
NUMBER	DATE	DESCRIPTION	NAME

Contents

Chapter 1

Identify-E

1.1 Identify-E.guide

TABLE OF CONTENTS
****

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                        ___________
                    | _| _  _ |._|_ \/
                    |(_|(/_| )|||  /    v8.2


                    == THE ORIGINAL ==
```

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
*********
```

Please read this part carefully.

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!

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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 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:

```
FILE_ID.DIZ
Identify.info
Identify/Function
Identify/Guru
Identify/ListExp
Identify/arexx/alert.ify
Identify/arexx/commodities.ify
Identify/arexx/expansions.ify
Identify/arexx/functionname.ify
Identify/arexx/gfxaudio.ify
```

```
          Identify/arexx/system.ify
          Identify/arexx/versioncheck.ify
          Identify/catalogs/deutsch/Identify.catalog
          Identify/catalogs/deutsch/IdentifyTools.catalog
          Identify/catalogs/Identify.cd
          Identify/catalogs/Identify.ct
          Identify/catalogs/IdentifyTools.cd
          Identify/catalogs/IdentifyTools.ct
          Identify/examples/ExpansionMUI
          Identify/examples/ExpansionMUI.c
          Identify/examples/MyExp
          Identify/examples/MyExp.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/clib/identify_protos.h
          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/identify.txt
          Identify/include/modules/libraries/identify.e
          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.h
          Identify/libs/identify.library
          Identify/libs/rexxidentify.library

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
          richard.koerber@koeln.netsurf.de

     Check my home page for the latest release and other programs. The
     URL is:

          http://www.is-koeln.de/einwohner/shred/
          http://shredzone.home.pages.de

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 "1,10 DM" stamp if you live in Germany and want to
     get a reply.

INFOLIST
     You can add yourself to a information list to get notified when
     new versions of the library are available. Just write a mail with
     the subject "HELP" (body will be ignored) to:

          richard.koerber@koeln.netsurf.de

     This list is handled offline, so please allow some days for the
     reply.

SUPPORT BBS
     You can also find the latest release in the official support BBS
     Eratosthenes.

    Number:
          +49-228-230083 (V.32bis, V.Fast-Class)
          +49-228-239522 (V.32bis, V.34, ISDN X.75)

    Login:
          SUPPORT (no password required)

    Board:
          /SUPPORT/SHRED

     Please note that even though the BBS is also to use in English,
     the main language is German.
```

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.

Finally, the option UPDATE forces identify to re-check all hardware information. Use this option e.g. after you started VMM.

Example:

```
  > ListExp MANUFID=514 PRODID=9
  -- ListExp V8.1 -- 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.

You may provide your alert code (all eight digits without any

```
symbols before or behind) as parameter. An example:

     > guru 81000005
     -- Guru V1.2 -- by Richard Koerber

      Alert Code: 81000005
      Type:       Deadend
      Subsystem:  exec.library
      General:    General fault
      Specified:  Corrupt memory list detected in FreeMem

   Or you can pass LASTALERT. In this case, the last alert code will be
examined.

   Please read the results like this::

Alert Code
     This is the alert code that has been decoded.

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/ARexx

```
ARexx
*****
```

   Since V6.0 an ARexx function library is available. You can now also use Identify in your ARexx scripts.

   To do so, you just have to install the rexxidentify.library into libs:. The library is included into ARexx by using a CALL AddLib("/libs/rexxidentify.library",0,-30,0) command.

   These functions are available since Release 1:

```
ID_Release()
     Returns the release- and version numbers of the
     rexxidentify.library.  The format is: '<release>
     <version>.<revision>(<date>)' (Example: '1 1.0(23.4.97)'). You
     should use the <release> part to check out if a function or option
     is available (e.g. Word(ID_Release(),1)).  The result can also be
     easily split up into the single contents by using the PARSE
     command.

ID_NumBoards()
     Returns the number of expansion boards added to the system. You
     can easily construct a loop for ID_Expansion, using this function.

ID_Expansion(<board>,<result code>)
     Returns the appropriate result to the board number <board> (0 to
     ID_NumBoards()-1) and the <result code>. Result codes are:
    MANUF
          Manufacturer name

    PROD
          Product name

    CLASS
          Product class (localized)

    ADDRESS
          Memory address of the expansion (hexadecimal)
```

```
    SIZE
          Reserved amount of memory for the expansion board (decimal,
          KBytes)

    SHUTUP
          Has the expansion been shut up? (0:No, 1:Yes)

    SECONDARY
          (since Release 4) Checks if the entry is primary (Result:
          Primary) or secondary (Result: Secondary).

    CLASSID
          (since Release 5) Returns the Class ID of the expansion
          board, see include files (decimal).

ID_Function(<library>,<offset>)
     Returns the name of the <library>'s function and the offset
     <offset>. See the Shell program Function.

ID_Alert(<code>,<result code>)
     Returns the appropriate result to the alert code <code>
     (hexadecimal string) and the <result code>. Result codes are:
    DEAD
          Deadend or Recovery?

    SUBSYS
          System causing the alert

    GENERAL
          General alert class

    SPEC
          Specific alert class See the Shell program Guru.

ID_Hardware(<result code>,{<option>,...})
     Returns a description of the hardware. <result code> are:
    SYSTEM
          Used Amiga model (e.g. Amiga 4000)

    CPU
          Used CPU

    FPU
          Used FPU, if available

    MMU
          Used MMU, if available

    OSVER
          AmigaOS ROM version

    EXECVER
          exec.library version

    WBVER
          Workbench version, if available
```

```
ROMSIZE
      Size of the AmigaOS ROM.

CHIPSET
      Available chip set (e.g. AGA)

GFXSYS
      Used graphics system (e.g. CyberGraphX)

CHIPRAM
      Total size of Chip RAM (includes virtual RAM)

FASTRAM
      Total size of Fast RAM (includes virtual RAM)

RAM
      Total size of total RAM (includes virtual RAM)

SETPATCHVER
      SetPatch version, if available.

AUDIOSYS
      Used audio system (e.g. AHI)

OSNR
      Used OS version (e.g. 3.0)

VMMCHIPRAM
      Size of virtual Chip RAM

VMMFASTRAM
      Size of virtual Fast RAM

VMMRAM
      Size of virtual RAM

PLNCHIPRAM
      Size of physical Chip RAM

PLNFASTRAM
      Size of physical Fast RAM

PLNRAM
      Size of physical RAM

VBR
      Address of the processor vectors

LASTALERT
      Last system alert

VBLANKFREQ
      VBlank interrupt frequency

POWERFREQ
      Power frequency
```

```
ECLOCK
      Special system clock's frequency

SLOWRAM
      Size of the A500 and A2000's special Fast RAM.

GARY
      Gary version

RAMSEY
      Ramsey version

BATTCLOCK
      Battery backed up clock available?

CHUNKYPLANAR
      Does a chunky planar hardware exist?

POWERPC
      Is a PowerPC available?

PPCCLOCK
      The clock of the PowerPC, in MHz units.

CPUREV
      (since Release 5) Returns the revision of the built-in CPU,
      if available.

CPUCLOCK
      (since Release 5) Returns the CPU clock, in MHz units.

FPUCLOCK
      (since Release 5) Returns the FPU clock, if available, in MHz
      units.

RAMACCESS
      (since Release 6) Returns the access time of the motherboard
      RAM (unit ns), if available.

RAMWIDTH
      (since Release 6) Returns the width of the motherboard RAM
      (bit), if available.

RAMCAS
      (since Release 6) Returns the CAS mode of the motherboard
      RAM, if available.

RAMBANDWIDTH
      (since Release 6) Returns the motherboard RAM bandwidth, if
      available.

 These <options> are allowed:
EMPTYNA
      Returns an empty string if the item is not available.
      Otherwise, a localized 'not available' kind of string is
      returned.
```

```
    NOLOCALE
          The return string is always in English, independent of the
          current language.

     See also the AutoDocs of IdHardware().

   These functions are available since Release 2:

ID_ExpName(<manufid>,<prodid>,<result code>)
     Returns the appropriate result to the manufacturer <manufid> (0 to
     65535), product <prodid> (0 to 255) and the <result code>.  Note
     that Identify cannot differ between expansions with the same
     product ID in this access mode. Result codes are:
    MANUF
          Manufacturer name

    PROD
          Product name

    CLASS
          Product class (localized)

   These functions are available since Release 4:

ID_LockCX()
     Fetches a copy of all currently present commodities and returns a
     slot for it. You must always provide this slot to the other
     functions.

ID_CountCX(<slot>)
     Results is the number of commodities found.

ID_GetCX(<slot>,<nr>,<result code>)
     Returns the appropriate result to the commodity <nr> of the slot
     <slot>. Result codes are:
    NAME
          Name of the commodity

    TITLE
          Title of the commodity

    DESC
          A short description

    GUI
          Result is 1 if the commodity provides a GUI, 0 otherwise.

    ACTIVE
          Result is 1 if the commodity is active, 0 otherwise.

ID_UnlockCX(<slot>)
     Frees the slot. You must not use it after that!

   These functions are available since Release 6:

ID_Update()
```

```
     Actualizes the hardware information. Please use it wisely (see
     AutoDocs).

   Some example programs you'll find in the arexx drawer.
```

1.9 Identify-E.guide/Bugs

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

   This is a snapshot of my current Amiga:

     -- ListExp V8.1 -- by Richard Koerber (mailto:shred@chessy.aworld.de)
     ListExp is a part of the Identify package (see AmiNet util/libs)

     ** HARDWARE **

     System:  Amiga 4000
     CPU:     CPU=68060/50 MHz (Rev 1), FPU=68060/50 MHz, MMU=68060
     PowerPC: None/0 MHz
     Chipset: AGA (RAMSEY F, GARY Normal, CHUNKY None) VBR=0x0803AF80
     AmigaOS: 3.0 (V39.106, SetPatch V43.6)   Exec V39.47   Workbench V39.29
     Support: GraphicOS: CyberGraphX 3, AudioOS: AHI
     Clock:   Power 50 Hz, VBlank 50 Hz, E-Clock 709379 Hz

     Memory:            CHIP    FAST   TOTAL ROM = 512.0KB   SLOW = 0
              PLAIN  ~2.0MB  25.5MB ~27.5MB
            VIRTUAL       0       0       0
              TOTAL  ~2.0MB  25.5MB ~27.5MB

     ** EXPANSIONS **

     Nr ID      Address  Size Manufacturer         Product
     ------------------------------------------------------------------------
      1 2140.22 40000000  64M Phase 5              CyberVision 64 Graphics
      2 2140.19 00EA0000 128K Phase 5              CyberStorm MK-II Flash-ROM
      3 082C.10 00E90000  64K BSC                  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 always be recognized with MMU.

        * All IDHW_LASTALERT accesses will most probably cause an
          Enforcer hit "LONG-READ from 00000100". This is necessary and
          harmless.
```

1.10 Identify-E.guide/FAQ

```
Frequently Asked Questions
**************************

An enforcer hit occurs while analysing the system.
     This hit is necessary to read the last alert code. It is harmless.

The CPU/FPU clock isn't accurate.
     Measuring the clock requires real Fast RAM for best results, else
     there may occur major faults.

The PowerPC clock isn't accurate.
     This is a bug in the ppc.library.

The system crashes at system queries (e.g. ListExp).
     Make sure that you have not installed the ppc.library if you do
     not really have a PowerPC.

Where can I find another FAQ?
     On my home page: http://www.is-koeln.de/einwohner/shred/
```

1.11 Identify-E.guide/History

```
History
*******

V 8.2
        * Improved UAE recognition

        * Improved 68060 compatibility

        * Visibly shortened by several optimizations

V 8.1
        * Improved SlowRAM recognition

        * Implemented IdHardwareUpdate()

        * Implemented motherboard RAM tests (RAMACCESS, RAMWIDTH,
          RAMCAS, RAMBANDWIDTH)

        * Removed stupid IDHW_VBR and IDHW_LASTALERT caching

        * ListExp actualized

V 8.0
        * Bugfix: IdFunction produced mungwall hits on oversized lines

        * Bugfix: VMM messed up the memory results

        * IdExpansion speed improvement
```

```
        * IDTAG_ClassID returns numerical board's class code [Jens
          Langner]

        * IDTAG_Localize returns builtin language only, if TRUE

        * IDTAG_NULL4NA returns NULL ptr instead of "N/A" string

        * IDHW_CPUREV returns the revision of the main CPU

        * IDHW_CPUCLOCK, IDHW_FPUCLOCK returns the clock frequencies

        * Reorganized the catalog files

        * UAE recognition implemented

        * Updated ListExp and rexxidentify.library

        * Added .ct files for translation

V 7.3
        * Bugfix: GfxOS detection was broken under certain situations

        * Added Commodities to rexxidentify.library [Domenic Gebauer]

        * Minor DraCo bugfixes [Udo Reuchlein]

        * Picasso96 (hopefully) is properly recognized now [Jens
          Langner]

        * Added further boards.

V 7.2
        * Bugfix: LowMemory handler now works fine

        * Some minor optimizations

        * Added IDTAG_Secondary

        * Added SECONDARY to rexxidentify.library

        * Increased IdFunction() parser maximum line length, due to
          some lines in the cybergraphics_lib.fd.

V 7.1
        * Bugfix: rexxidentify.library returned additional Null
          termination [Bossman]

        * Bugfix: LowMemory handler hangs up and is temporary disabled

        * Added further boards.

V 7.0
        * Chunky to planar hardware recognized

        * PowerPC recognition implemented, but not yet completed

        * Added an LowMemory handler (AmigaOS V39+ only)
```

```
        * Memory sizes are shown like in ShowConfig

V 6.1
        * Added further boards.

        * Enforcer hit now only occurs on LASTALERT query.

        * Added ARexx command EXPNAME

V 6.0
        * Added further boards.

        * OS2.1 recognized properly.

        * Some new hardware requests (VBR, Gary, RAMSEY, Slow-RAM,
          Frequencies, BattClock)

        * You can list all expansions without the need to open
          expansion.library now

        * IdHardwareNum() implemented: you can also request a numerical
          result for own evaluating purposes now

        * localized and actualized ListExp, Function and Guru

        * ARexx access to the library via rexxidentify.library

        * More example programs

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.
```

1.12 Identify-E.guide/Users

```
Users
*****

   These programs are already using the identify.library:

cP!_ShowConfig
     Autor: Domenic Gebauer
     AmiNet: util/wb/cP_ShowConfig.lha
     E-Mail: campino@gmx.net

EuraTools Register
     Autor: Richard Körber
     AmiNet: util/misc/EuraTools.lha
     E-Mail: shred@chessy.aworld.de

IdentifyBB2
     Autor: Ferraris Luca
     AmiNet: dev/basic/IdentifyBB2.lha
     E-Mail: ferraris.luca@educ.di.unito.it

P96Speed
     Autor: Jens Langner
     AmiNet: gfx/board/P96Speed.lha
     E-Mail: deck@rcs.urz.tu-dresden.de

Scout
     Autor: Andreas Gelhausen, Richard Körber
     AmiNet: util/moni/Scout.lha
     E-Mail: shred@chessy.aworld.de

ShowSystem
     Autor: Jarmo Laakkonen
     AmiNet: util/moni/showsystem.lha
     E-Mail: jami@dlc.fi

SL!-BoxStatus
     Autor: Sascha Sauer
     AmiNet: comm/bbs/SL-BS??.lha
     E-Mail: SPACEMAN@SPACELND.ruhr.de

SIP
     Autor: Andreas R. Kleinert
     AmiNet: util/moni/SIP.lha
     E-Mail: Andreas_Kleinert@t-online.de
```

```
SystemPrefs
     Autor: Richard Körber
     AmiNet: util/wb/SytemPrefs.lha
     E-Mail: shred@chessy.aworld.de

ToxicBoards
     Autor: Sascha Reissner
     AmiNet: comm/cnet/TBoards20f.lha
     E-Mail: sascha@toxic.franken.de

XOpa
     Autor: Axel Dörfler, Alexander Bartz
     AmiNet: util/moni/XOpa1_??.lha
     E-Mail: axeld@ax.westfalen.de

   Your program is missing? Write me!
```

1.13 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 his many ideas.

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

Roger Hågensen
     for the Amiga-E include files and his hints.

Andreas Schlick, Kai Schindelka and Thomas Schürger
     for their untiring help.

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, his hints and all his help.
```

```
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Hazianastasiou, Dirk Hebisch, Matthias Heilmann, Ian P.Heitmans, Gene
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Misic, Gernold Mühling, L Mac Mullan, David Oakes, Jürgen Ofner,
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   (and all I might have forgotten!)

   Keep on!

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

1.14 Identify-E.guide/Concept Index

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

  Address                                Address
  Alert descriptions                     Guru
  ARexx                                  ARexx
  BBS                                    Address
  Bugs                                   Bugs
  Commercial Product                     Copyright
  Contents of the package                Copyright
  Copyright                              Copyright
  Copyright note                         Copyright
```

Credits	Credits
Decoding Library Offsets	Function
Disclaimer	Copyright
Distribution	Copyright
Distribution via electronic channels	Copyright
E-Mail	Address
FAQ	FAQ
FreeWare	Copyright
Function	Function
Guru	Guru
History	History
Homepage	Address
Infolist	Address
Introduction	Introduction
ListExp	ListExp
Questions	FAQ
rexxidentify.library	ARexx
Snail Mail	Address
Support BBS	Address
Trademarks	Copyright
Unknown Boards	ListExp
Users	Users