Identify-Dev

COLLABORATORS

	TITLE : Identify-Dev		
ACTION	*NAME*	*DATE*	*SIGNATURE*
WRITTEN BY		August 27, 2022	

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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Chapter 1

Identify-Dev

1.1 Identify-Dev.guide

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              |(_|(/_| )|||  /    v11.2


              == THE ORIGINAL ==
```

1.2 Identify-Dev.guide/Copyright

```
Copyright
*********
```

   Please read the following parts carefully.

   If you do not agree to these Copyright notes, you must delete this
archive and all related files.

COPYRIGHT
     NOTE: You accept the following terms by starting the software,
     even for a test drive only.

     Identify is (C) Copyright 1996-99 by Richard Körber. All rights
     reserved.

     You only have the right to use the software, but no rights on the
     software itself. Disassembling, resourcing and all other ways of
     reverse engineering is forbidden. This means the expansion database
     in particular!

FREEWARE
     Identify is FreeWare. You are allowed to use the packet without
     paying a fee or similar to the author.

COPYING
     You can copy the packet as long as it remains entire and unchanged.

     You are allowed to compress the packet using a customary
     compression software (as lha, lzh, lzx, dms). You must not
     compress single files of the packet (e.g. PowerPacker or Imploder).

PARTIAL COPYING
     You are allowed to add the files identify.library,
     rexxidentify.library and InstallIfy to your own program packet,
     without the need to add the whole Identify packet. In this case,
     you must mention in the documentation that you are using Identify
     by Richard Körber, and where a full Identify distribution is
     available.

DISTRIBUTION
     You must not exceed an usual price on the market for your working
     and material. This means a maximum of 5 DM (or the equivalent
     amount in other currencies) for disks and 35 DM for CD-ROMs
     containing a PD software collection.

     I explicitly permit the distribution via AmiNet, Meeting Pearls,
     Fred Fish and other well-known PD series.

LIABILITY
     You are using the program as it is, with all flaws, and on your
     own risk! I grant no warranty for the software meeting a special
     purpose. This software may cause financial damage or harm people.

LIMITATIONS

You are not allowed to use this software and its results

* for fascism or military purposes

* if you do not agree to the copyright note

In this case you must delete the software and all related and
generated files immediately!

TRADEMARKS
     All Copyrights and Trademarks are held by their owners.

1.3 Identify-Dev.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 addresses:

          rkoerber@gmx.de
          richard.koerber@koeln.netsurf.de

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

          http://shredzone.home.pages.de
          http://koeln.netsurf.de/~richard.koerber/

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

          Richard Körber
          Überm Rost 13
          51465 Bergisch Gladbach
          Germany

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

MAILING LIST
     The list has been shut down due to lack of interest.

SUPPORT BBS
     The Eratosthenes will go offline at the end of 1999. I won't have
     another support BBS.

1.4 Identify-Dev.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. 3.5)

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.

TCPIP
      (since Release 7) Returns the used TCP/IP stack, if started.

PPCOS
      (since Release 7) Returns the PowerPC OS (PowerUp, WarpOS),
      if available.

AGNUS
      (since Release 7) Returns the Agnus chip revision, if
      available.

AGNUSMODE
      (since Release 7) Returns the Agnus chip mode (PAL or NTSC).

DENISE
      (since Release 8) Returns the Denise chip version, if
      available.

DENISEREV
      (since Release 8) Returns the Denise chip revision, 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.
```

1.5 Identify-Dev.guide/InstallIfy

```
InstallIfy
**********
```

   Since V9.0, a new tool has been added.

   InstallIfy allows you to import identify's hardware information into
Installer scripts.

   So you can find out in an Installer script, if e.g. a PowerPC is
available, what PowerPC OS is used, or if sufficient processor power is
available.

   InstallIfy should be invoked with the installer's RUN function. The
name for the desired hardware information is provided, and the
appropriate numerical result is returned as DOS return code. For
example:

```
     (set rc (run "c:InstallIfy POWERPC" (safe)))
     (if (<> rc 0)        ; PowerPC
       (message "A PowerPC is available!")
     )
```

   These options are available:

```
FIELD
     Here, the name of the desired hardware field is passed. This are
     the same as for the ARexx ID_Hardware command. See the include
     files to find out how the return code has to be interpreted.

UPDATE
     If this option is set, the identify.library hardware information
     cache will be flushed. Use this option wisely, see ListExp.

HELP
     Shows a short help page and exits.
```

   There is an example Installer script in the developer packet. Just
have a look at it and see how InstallIfy is used.

1.6   Identify-Dev.guide/Concept Index

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


                Address
                                                Address

                ARexx
                                                    ARexx

                BBS
                                                  Address

                Copyright
                                            Copyright

                Copyright note
                                        Copyright

                E-Mail
                                                Address

                FreeWare
                                                Copyright

                Homepage
                                              Address

                InstallIfy
                                          InstallIfy

                Mailing list
                                        Address

                rexxidentify.library
                                ARexx

                Snail Mail
                                            Address

                Support BBS
                                          Address
```