ini

COLLABORATORS

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Chapter 1

ini

1.1 ini.doc

--background-ini_ChangeString() ini_CheckProtection() ini_Delete() ini_DeleteFilename() ini_ErrorString() ini_GetBool() ini_GetHeader() ini_GetInteger() ini_GetString() ini_GetVariable() ini_LocalConfig() ini_New() ini_NewConfig() ini_NewFilename() ini_OpenFile() ini_ProtectSection() ini_RemoveVariable() ini_Save()

AUTHOR

DISTRIBUTION

1.2 ini.library/--background--

PURPOSE

The ini.library was written to give the amiga user a more consistent configuration file format, and programmers a much easier way of storing config or project information on disks.

Most programs have config files to store global settings and such. These files have all different structures people in the real world (the users) cannot examine or understand; and, worse yet, often differ from version to version. We all know the hassle with those 'old->new' configuration file converters...With the ini.library this changes: you have access to a standardized ini file format known from other operating systems such as unix, windows and so on; it allows you to save your config stuff much easier (less code), and it enables the user to read and even modify configuration data with a simple text editor (or, a wide-range field for unemployed PD programmers: using an INI editor)

As the ini.library is I-WANT-TO-BE-FREE-WARE you are ENCOURAGED to use it - its free of charge! (go ahead, do it!) and it offers much more comfort to your applications. PD dealers, diskmags, everyone, I'd like you to push'n'hype the ini.library ;-).

INI files are plain line-oriented ASCII texts that can contain three possible types of lines : COMMENTS, HEADERS and VARIABLES. COMMENTS are lines that include additional information not used by the parser. You can use these comment lines to give the user ideas about what your variables mean and what reasonable changes s(he) is allowed to make to that variables. HEADERS are identifiers for sections and are enclosed in [] brackets. A SECTION is a group of zero to infinite (?) number of variables and provides a simple but efficient means of logically grouping data. VARIABLES are simple statements in the form "<variable>=<contents>" where both <variable> and <contents> could be virtually anything - you name it.

Each INI file must start with a sequence of 4 characters ";INI" otherwise the ini.library will return the INIERROR_INVALID_INI_FILE. This was included to prevent misuse of the ini.library: imagine your program has a 'load user configuration' menu and the user tries out some binary hack or an IFF picture (you know users, don't you?! ;-) If you watch out for INIERROR_INVALID_INI_FILE, you can send the user a message of complaint and ignore its wishes -> great. Since this is a cause for many first-time problems, from version 2.1 upwards this checking can be made optional; see

ini_NewConfig()
for

details

COMMENTS

Comments can be placed anywhere [well, almost]. If you want to have a full-line comment, place a ';' or a '*' in the first column of that line. Anything after these two characters will be ignored. If you want to place a comment at the end of a line you should use the ';' sign ONLY. Also note that if you make a comment after a variable you should probably enclose its contents in quotation marks; otherwise the whitespaces between the last character of the contents and the comment start will be part of the contents. This is no problem if you are using integer or boolean variables; it might be a problem for SOME string variables, but doesn't necessarily have to - its up to your interpretation of the input data.

Examples:

; INI for MUIMon release version

* another piece of wisdom best part of munich=ULTRAWORLD ; 100% wild techno

SECTIONS

Sections are used to group variables logically. You should try to place all your data in groups so that your inifiles have a more consistent look and both you and the user can find data easier. The concept of sections can have various usages, one is to handle logic groupings for one program, another is to handle data related to different programs accessing the same INI file, yet another is to just make your INI more readable. Of course, the ini.library is flexible enough to ignore sections altogether, but you shouldn't force it! Sections cost you nothing and make for a lot better programs.

HEADERS

Headers start a new section. Headers are strings enclosed in [] brackets and can be any string you like. Everything following a header is logically assigned to that header - up to the next section header or an end-of-file.

Examples:

[drivers]
pc0=storage:dosdrivers/pc0
cd=devs:CDROM

[Disko Lovers, International] best ULTRAWORLD DJs=MONIKA, TIN-A-303, BLEEP & TRIPPLE R, DJ HELL ; hi to SMC all ravers around the globe. See you on MAYDAY V

[hermeneutic philosophy revisited] zizek=no meta language exists

VARIABLES

Variables are basically strings that are assigned a name. The names is what you search for, the strings is what you get -it is as simple as that. For instance, in "TABS=8" the string "TABS" is the name (also called the variable), the string "8" is its value. The interpretation of the string value is up to you. The ini.library provides three basic types of interpretation : Strings, Integers (LONGs) and boolean Values (BOOLs). You can of course add your own interpretations as you like, and this is why the ini concept is so flexible: You can virtually store ALL information you need in such a way that it is represented as an ASCII string. If you want your strings to be of a certain length, you can enclose them in brackets, for example such as in

```
user="T\"N\"I and THE DREAM TEAM"
```

where you can assign the string >T"N"I AND THE DREAM TEAM< to the variable named >user<. Note that a sequence of " is used as an escape character in the above example.

If you have ideas for additional datatypes of general interest the ini.library should understand, please contact me. If possible, I'll include them.

```
Examples:
```

;INI

[GLOBAL] user="T'N'I and The Dream Team" ;from INTENSE Records tabs=8 indent=YES autofold=FALSE preferences=

[DIRECTORYS] home=work:assembler/ ; add multiple directorys by using '+' or ',' include=include:+dh1:more_includes/ libs=dh2:code/libs/asm/+lib:+disko:love

The above example shows you some ideas of inifiles: Two groups are part of this inifile: GLOBAL and DIRECTORYS. Each section can (but doesn't have to) have different variables, each variable can be any string enclosed in quotation marks or from the = sign to the end of the line. If you want to add comments, enclose the string in quotes, and add a comment like in the "user=" line above. Note that the feature described as "add multiple directorys by ..." is a description of an add-on datatype used by the application for this INI file and NOT provided by the ini.library itself.

Now you should be able to read inifiles. More complex features such as section protection and file location are described in the "programmers.guide" document which should be part of this distribution.

HINTS

If you decide to use the ini.library -WHICH I STRONGLY HOPE YOU DOyou should always check for error returns - you may never know when they come in handy for you.

If you save your files, make use of the grouping feature; that is, at least provide some GLOBAL section so that the user knows what he's up for. It makes INIfiles more readable and doesn't cost

you anything.

LIMITATIONS Yes, there are some.

* currently no whitespaces before and after the "=" are allowed. This means that the two following lines are different for the ini.library parser functions

```
ultraworld=great
ultraworld = great
```

There is a simple workaround for this: just do your own variable and contents parsing (explicit datatypes, see above). Future versions WILL include a fix on that, I PROMISE.

1.3 ini.library/ini_ChangeString

NAME ini_ChangeString -- change an existing string for a variable SYNOPSIS error = ini_ChangeString(parser, header, variable, value) d0 AΟ Α1 Α2 A3 INIERROR ini_ChangeString(INIPARSER *, STRPTR, STRPTR, STRPTR); FUNCTION Changes the contents of a variable to a new value. If you have made changes to the data represented in an inifile (e.g. your internal configuration structure) you can use this function to fix those changes and then write back your file with ini_Save()

If the variable already existed, its contents will be replaced by the new contents; if it didn't exist, it will be appended to the section it is assigned to. Unless you use explicit saving of ini-files you *MUST* use ini_ChangeString() to change the contents of variables, **NEVER** try to do it on your own (its quite tricky, actually!).

```
INPUTS
parser - pointer to a valid INIPARSER
header - section header name
variable - section variable name
value - new contents

RESULTS
error - INIERROR as defined in libraries/ini.h

NOTE
old end-of-line comments will be stripped by this function. You can
explicitly set one by using contents such as
   char *newContents = "\"blabla\" ;comment "; or
   dc.b '"blabla" ;comment',0
SEE ALSO
ini RemoveVariable, ini Save
```

1.4 ini.library/ini_CheckProtection

```
NAME
ini_CheckProtection -- check if a section has a valid protection
 SYNOPSIS
  error = ini_CheckProtection( header, password )
d0
                   Α0
                           Α1
INIERROR ini_CheckProtection( INILINEINFO *, STRPTR )
FUNCTION
This function checks if it can find a "$code" variable in the given
section and if that code matches the password given as an argument.
The password is case sensitive and must match *EXACTLY* the one used
to code that particular section (including whitespaces and so on).
It is up the caller to decide what to do if a section is not
properly coded : you can make it a fatal problem or just ignore
it - whatever you like. This means, the ini.library will load files
with or without invalid passwords - YOU have the "power" to handle
this situation (actually, this was done because it is not a feature
of the normal inifile "standard", its a addon bonus of the ini.library)
INPUTS
header - pointer to a INILINEINFO structure for a section header
  (i.e. ili_Flags must be INIFLAG_HEADER )
password - pointer to the password (assumably) used to protect this
  section
RESULTS
error - INIERROR as defined in libraries/ini.h; you should look out
  for INIERROR_NONE = good, INIERROR_INVALID_PASSWORD = bad
```

```
SEE ALSO
ini_ProtectSection
```

1.5 ini.library/ini_Delete

```
NAME
ini_Delete -- delete INI parser
SYNOPSIS
error = ini_Delete( parser )
D0
         Α0
INIERROR ini_Delete( INIPARSER * );
FUNCTION
Free all memory used by an INI parser and reset all accompaning
internal data structures. You should ALWAYS call this function
after you have finished using the INI file so that you don't loose
any precious memory. You must call ini_Delete() even if
              ini_New()
                wasn't able to create the parser for you (there still might be
some memory somewhere only ini_Delete can take care of)
WARNING
This function does not arbitrate for access to the parser.
                                                             The
calling task must be the owner of the involved parser.
 INPUTS
parser - a pointer to a parser structure initialized with
              ini_New()
                 RESULTS
error - INIERROR as defined in libraries/ini.h
 SEE ALSO
ini_New
```

1.6 ini.library/ini_DeleteFilename

```
NAME

ini_DeleteFilename() -- destructor for

ini_NewFilename()

SYNOPSIS

ini_DeleteFilename( filename )

D0

void ini_DeleteFilename( STRPTR )

FUNCTION

This function will deallocate memory associated with a filename

generated by

ini_NewFilename()
```

```
INPUTS

filename - a filename returned from ini_NewFilename

NOTE

after calling ini_DeleteFilename() your "filename" variable is

invalid : DO NOT USE IT ANY LONGER!

RESULTS

none

SEE ALSO

ini_NewFilename()
```

1.7 ini.library/ini_ErrorString

```
NAME
ini_ErrorString -- find error message to an INIERROR
 SYNOPSIS
 message = ini_ErrorString( error )
 D0
           D0
STRPTR ini_ErrorString( INIERROR )
FUNCTION
Used to find an ini.library error message. Currently the error
strings are in english but a localized version is planed for the
next update of this library, so you should use ini_ErrorString()
when printing warnings instead of your own error strings. Also, if
you use ini_ErrorString() you automagically can handle errors that
result from higher library versions.
 INPUTS
error - some INIERROR code returned by one of the ini.library functions
RESULTS
message - the error message for that error code (soon to be localized)
  If there was no error message (because of INIERROR_NONE or an
  invalid error code) ini_ErrorString() will return an EMPTY
  string ( "" ) and not NULL, so you can always do something
  like
  printf("%s\n", ini_ErrorString( ini_Whatever(...) ) );.
NOTE
You are NOT allowed to modify this string, if you need to do so,
make a copy of the string and use that copy instead.
```

1.8 ini.library/ini_GetBool

```
NAME
ini GetBool -- find a boolean variable
 SYNOPSIS
 error = ini_GetBool(parser, head, var, defaultBool, target)
         AO
                     A2 D0
d0
                A1
                                A3
INIERROR ini_GetBool(INIPARSER *,STRPTR,STRPTR,BOOL,BOOL *);
FUNCTION
Used to find a boolean in an inifile. If the value cannot be found
for any reason, a default value is used. The variable should be
  "YES",
  "Υ",
  "ON" or
  "ACTIVE"
if the returned value is to be TRUE, otherwise FALSE will be returned.
Future Versions of the ini.library will probably include locale-dependant
IDs in addition to those above. You can use ini_GetBool() very good to
handle boolean flags in your configuration - and it is a lot more
readable than other solutions.
 INPUTS
parser - pointer to an INIPARSER opened by
              ini_New()
                head - section header name
var - section variable name
defaultBool - default value if boolean value not found
target - adress of target Bool
RESULTS
error - INIERROR as defined in libraries/ini.h. Actually, you can
  normally ignore this error code, because you must provide a
  default value anyway.
 SEE ALSO
ini_GetInteger, ini_GetString
```

1.9 ini.library/ini_GetHeader

NAME ini_GetHeader -- find a section header SYNOPSIS header = ini_GetHeader(parser, headerString) D0 A0 A1 INILINEINFO *ini_GetHeader(INIPARSER *, STRPTR) FUNCTION This function is used to locate a section in an INI file by looking

```
for the section header. If you are looking for a specific variable,
              ini_GetString()
               is probably the better choice, but you can do your
own parsing of INI sections, e.g. if you have 'intelligent' sections;
that is sections with flexible concepts or whatever. You could use
              ini_GetVariable()
               in that case.
 INPUTS
parser - a pointer to a parser structure initialized with
              ini New()
                headerString - name of the section header you are looking for, \,\,\leftrightarrow\,\,
                    without
  enclosing brackets (ie. "global" )
 RESULTS
header - pointer to an INILINEINFO or NULL if that header could not
  be found. This can be the case either if the INI file does not
  include that particular section, or (worse) the INI parser
  wasn't able to complete its job (as you know, all ini.library
  functions are save to use). If this is NON-NULL, you can use
  it as an argument to
              ini_GetVariable()
               or you can do your own
  section looping (see "advanced concepts" in the "programmers guide")
 SEE ALSO
ini_GetVariable, ini_GetString, ini_New
```

1.10 ini.library/ini_GetInteger

```
NAME
ini_GetInteger -- find a long integer variable
 SYNOPSIS
  error = ini_GetInteger(parser, head, var, defaultLong, target)
                    Α1
                       A2 D0
d0
             AΟ
                                   A3
INIERROR ini_GetString(INIPARSER *,STRPTR,STRPTR,LONG,LONG *);
FUNCTION
Used to find an integer in an inifile. If the integer cannot be found
for any reason, a default value is used. The ini section should
contain a string representing a long decimal value. If the string
starts with a $ sign, a hexadecimal value is expected, % indicates
binary digits and finally @~sets an octal number. Therefor, the
following four entries will all return the same number
  decimal=123
  octal=@173
  binary=%1111011
  hex=$7B
```

```
The prefixes are compatible to most assemblers (now you know which
language the ini.library was written in ;-) but a future update
will probably include C-style prefixes (0x and so on).
 INPUTS
parser - pointer to an INIPARSER opened by
              ini_New()
                head - section header name
var - section variable name
defaultLong - default value if integer not found
target - adress of target long
 RESULTS
error - INIERROR as defined in libraries/ini.h. Actually, you can
  normally ignore this error code, because you must provide a
  default value anyway.
 SEE ALSO
ini GetBool, ini GetString
```

1.11 ini.library/ini_GetString

NAME ini_GetString -- find a string variable SYNOPSIS error = ini_GetString(parser,head,var,defaultStr,target,sizeOfTarget) A2 A3 DO Α0 A1 D0 Α4 INIERROR ini_GetString(INIPARSER *,STRPTR,STRPTR,STRPTR,STRPTR,WORD); FUNCTION Used to find a string in an inifile. If the string cannot be found for any reason, a default string is used; so unless you desperately rely on a string to exist as part of an inifile, you can call this function without even checking for error returns. You can add a series of ini_GetString() statements for all strings you need to check without having to worry if they exist or not. INPUTS parser - pointer to an INIPARSER opened by ini_New() head - section header name var - section variable name defaultStr - default string to use (NULL is possible) target - target string sizeOfTarget - size of target string. ini_GetString() promises not to overwrite its bounds AND to keep a zero byte at the end, so actually a maximum of (sizeOfTarget-1) characters will be written.

```
RESULTS
```

```
error - INIERROR as defined in libraries/ini.h. Actually, you can
normally ignore this error code, because you must provide a
default value anyway.
SEE ALSO
ini_GetBool, ini_GetInteger
```

1.12 ini.library/ini_GetVariable

NAME

```
ini_GetVariable -- find a section variable
 SYNOPSIS
variable = ini_GetVariable( header, variableName )
D0
            Α0
                    Α1
INILINEINFO *ini GetVariable( INILINEINFO *, STRPTR )
FUNCTION
This function is used to locate a variable following a given header
(or, for that matter, any given INILINEINFO). You can use this function
if you want to manually parse a section, if you want to find out if
there are more variables of a given name following a specific variable,
or for anything else you could think of. Note that you cannot pass
the INIPARSER as function arguments, use (parser->table.ln_Head) if
you have to do so.
INPUTS
parser - a pointer to an INILINEINFO structure (from your INIPARSER.table)
  or -preferably- as returned by
              ini_GetHeader()
                varibaleString - name of the variable you are looking for,
                                                                            \leftarrow
                   without
  enclosing brackets and "=" (ie. "variable" )
 RESULTS
variable - pointer to an INILINEINFO or NULL if that variable could not
  be found. This can be the case either if the INI file does not
  include that particular section, or (worse) the INI parser
  wasn't able to complete its job (as you know, all ini.library
  functions are save to use).
 NOTE
  ini_GetVariable() doesn't promise the variable to be a member of
  the section you specified with your header. For example,
  head = ini_GetHeader( parser, "HEAD ONE" );
    info = ini_GetVariable( head, "VARIABLE" );
would find the "VARIABLE=FOUND" entry in the "HEAD TWO" section
if the inifile looked something like this :
  [HEAD ONE]
  size=3551
```

```
[HEAD TWO]
VARIABLE=FOUND
This is A FEATURE, NOT A BUG ;-), yes, because you normally will
use ini_GetVariable() to loop through the complete inifile.
SEE ALSO
ini_GetVariable, ini_GetString, ini_New, ini_ParseSection
```

1.13 ini.library/ini_LocalConfig

```
NAME
ini_LocalConfig() -- get the local configuration
 SYNOPSIS
  config = ini_LocalConfig()
INICONFIG *ini_LocalConfig( void )
FUNCTION
This function will return the local configuration if one is
defined for the current task. Local configurations are "task
sensitive", which means that one task can have one local config.
ini_LocalConfig() will NOT fall back to the global config, so
if you want to read the current config you would probably write
something like
  if( ( config = ini_LocalConfig() ) == NULL )
      config = IniBase->GlobalConfig;
 INPUTS
none
 RESULTS
config - local configuration or NULL if none exists
 SEE ALSO
              ini_NewConfig()
              , ini_DeleteConfig()
```

1.14 ini.library/ini_New

```
NAME

ini_New -- open INI parser

SYNOPSIS

error = ini_New( fileName, parser )

D0 A0 A1
```

```
INIERROR ini_New( STRPTR, INIPARSER * );
FUNCTION
Open an inifile and parse its contents. After successfully calling
an inifile with this function you can examine its contents using
the functions provided (eg.ini_GetString()) or manually. You must
call this function before calls to any other ini.library functions.
Don't even think about creating an INIPARSER yourself.
WARNING
This function does not arbitrate for access to the parser.
                                                            The
calling task must be the owner of the involved parser. Use semaphores
if you want to share parser information with other tasks.
You should always call
              ini_Delete()
               on the parser EVEN IF ini_New()
failed. Otherwise some internal memory might get lost somewhere
 INPUTS
fileName - name of the input file. This is currently a plain filename
  with or without pathname; however you should try to use only
  plain filenames ("test.ini" instead of "dh1:somewhere/test.ini")
  so that the ini.library can fix inifiles to S:, INI: or whereever
  the user wants them located. See "locating files" in the
  "programmers guide" for details.
parser - pointer to an empty INIPARSER structure. C programmers simply
  add the adress of an INIPARSER variable, ASM programmers
  can use a (DS.B ip_SIZEOF) statement (See example TEST.ASM)
RESULTS
error - INIERROR as defined in libraries/ini.h. Proceed ONLY if
  error = INIERROR_NONE, else you can forget about it.
 SEE ALSO
ini_Delete
```

1.15 ini.library/ini_NewConfig

NAME ini_NewConfig() -- setup a local configuration SYNOPSIS error = ini_LocalConfig(tagList) d0 A0 INIERROR ini_LocalConfig(struct TagItem *) FUNCTION This function creates a local configuration for your program. If one already exists it will be modified to use the new values. See "ini.introduction" for more details on the concept of local

```
and global ini.library configurations
  NOTE
    Sorry, no vararg-stub for C-programmers (yet?); I didn't want
    to have to write a linklib for only one function...
   INPUTS
  taqList - a list of tag items. Currently defined tags are :
    ICFG_ENABLE_S
    ti_Data is BOOL, default = TRUE
    ICFG_ENABLE_INI
    ti_Data is BOOL default = TRUE
    ICFG_ENABLE_ENV
    ti_Data is BOOL, default = TRUE
    ICFG ENABLE USER
    ti_Data is BOOL, default = TRUE
    ICFG_INIMASK
    ti_Data is BOOL, default = FALSE. If set to TRUE, the
    ini.library no longer requires the "; INI" at the start
    of an input file.
    ICFG_ASSIGN
    user-assign directory, ti_Data is STRPTR to a
    static memory! (i.e. the ini.library will not copy
    name name of the user-assign so you MUST keep it in
    memory yourself !!!!! this may change for future releases
    but right now its a requirement)
  RESULTS
  error - INIERROR as defined in libraries/ini.h;
   SEE ALSO
                ini_LocalConfig()
                , ini_DeleteConfig()
1.16 ini.library/ini_NewFilename
```

```
NAME

ini_NewFilename -- build a config-sensitive INI filename

SYNOPSIS

newname = ini_NewFilename( filename )

d0 A0

STRPTR ini_NewFilename( STRPTR )

FUNCTION

This function builds a complete path+filename for a simple filename
```

```
a file named "application.ini" could be located in S:, in INI:, in ENV:,
in a user-defined directory or the current directory. BASED UPON THE
CURRENT CONFIGURATION this function will build a correct filename
for you. Example:
  ini_NewFilename( "application.ini" )
could return
  "s:application.ini"
  "ini:application.ini"
  "env:application.ini"
  "<user>:application.ini" or just
  "application.ini"
You must call
              ini_DeleteFilename()
               on a filename returned by this
function.
 TNPUTS
filename - the basic filename; should NOT contain any path information
(except for subdirectorys: if you are using multiple INIs grouped in
a subdirectory (i.e. "tool/users.ini" -> "ini:tool/users.ini" ))
 RESULTS
  newname - path + filename, or NULL for OUT_OF_MEMORY error
 SEE ALSO
```

based upon the local (or global) configuration. The problem is simple:

ini_DeleteFilename()

1.17 ini.library/ini_OpenFile

NAME ini_OpenFile() - open an INI-file

SYNOPSIS file = ini_OpenFile(filename, mode, parser) d0 d1 d2 a0

BPTR ini_OpenFile(STRPTR,WORD,INIPARSER *);

FUNCTION

This function opens an INI-File just like dos/Open() would do. However, it does a little bit more: if you use it in MODE_NEWFILE and have a valid parser structure, ini_OpenFile() will open the file in that directory where the original parser was located. The problem is this: because your program doesn't know where the INI file was loaded from (it could be INI:, it could be S:, it could be anywhere in the known galaxy) you wouldn't normally know where to save it back to (unless of course you don't need explicit saving and use

ini_Save()

```
instead of all the fuss).
INPUTS
filename - filename without path or anything
mode - just like dos/Open(), MODE_NEWFILE, MODE_OLDFILE etc.
parser - parser structure. Because the parser has to be initialized, this
probably restricts use of ini_OpenFile() for the general public
to the situation described above: explicitly saving an ini-file
RESULTS
file - just like dos/Open() a pointer to a filehandle you can Read() or
Write() to (or whatever). You must Close() it yourself!
```

1.18 ini.library/ini_ProtectSection

NAME ini_ProtectSection -- protect an INI file section SYNOPSIS error = ini_ProtectSection(parser, header, password) d0 AΟ Α1 Α2 INIERROR ini_ProtectSection(INIPARSER *, INILINEINFO *, STRPTR) FUNCTION This function protects a INI file section by adding a new (or updating an existing) "\$code" variable to contain a coded value. The coding mechanism uses all data given in variables of a section plus a special password known only to the caller of ini_ProtectSection. Thus, if a user a) changes contents of variables or b) tries to use this function with an invalid password the "\$code" variable will become invalid. You can use ini_CheckProtection to see if the "\$code" variable is valid, so there you have your protection mechanism!

In general, if you intend to protect a section, you should do the following :

ini_Save()
 Of course, you should probably skip
ini_CheckProtection()
 during the

development of your application, since you may find the need to quickly change var contents while debugging and so on. Once working you can use protected sections to contain "read-only" data you still want to make public (such as for debugging purposes, or for pure fun, or for making people jealous and encouraging hackers to take a deeper look at your code)

```
The concept for protected sections is an add-on to the INI standard
made by the ini.library so you shouldn't expect it to work if you
port code to other OS such as Windows.
 NOTE
  The password is case sensitive and must match EXACTLY for calls
  to ini_ProtectSection()/ini_CheckProtection(); i.e.
  "ultraworld" != "Ultraworld" != "ultraworld "
 INPUTS
parser - pointer to the INIPARSER structure
header - pointer to a INILINEINFO structure for a section header
  (i.e. ili_Flags must be INIFLAG_HEADER )
password - pointer to the password you want to use for protection
RESULTS
error - INIERROR as defined in libraries/ini.h; you should look out
  for INIERROR_NONE = good, INIERROR_INVALID_PASSWORD = bad
 SEE ALSO
ini_CheckProtection
```

1.19 ini.library/ini_RemoveVariable

```
NAME
ini_RemoveVariable() -- remove an existing variable
 SYNOPSIS
  error = ini_RemoveVariable( parser, header, variable )
           ΑO
d0
                  A1
                            A2
INIERROR ini_RemoveVariable( INIPARSER *, STRPTR, STRPTR );
FUNCTION
This function removes an existing variable from an INIPARSER.
You can use this if you don't need a particular variable anymore;
however you don't have to kill unused variables, because they are
ignored anyway based upon your read requests. DON'T ever remove
a variable manually.
 INPUTS
parser - pointer to an INIPARSER
header - section header name
variable - section variable name
RESULTS
error - INIERROR as defined in libraries/ini.h
SEE ALSO
ini_Save, ini_ChangeString
```

NAME ini Save -- save an inifile back to disk SYNOPSIS error = ini_Save(fileName, parser) d0 AO Α1 INIERROR ini_Save(STRPTR, INIPARSER *) FUNCTION Save a parser structure back to an inifile. If you have made changes to an INIPARSER (e.g. by calling ini_ChangeString()), you can save the complete inifile to disk using this function. If you have to make lots of changes on the input data, for example if you save project file information there, you could explicitly save the file yourself: open it using ini_OpenFile(...,MODE_NEWFILE,...), then dos/FPrintf() all the contents and finally dos/Close() it. You have to decide yourself what you prefer; making changes with ini_ChangeString() and ini_Save() makes more readable code and is a lot saver (and preserves any comments the user has made); exporting your internal data as inifiles is probably more straight-forward but not quite as bullet-proof. Whatever. INPUTS fileName - name of inifile to create. No checking is done if the file already exists; so you must make some provision for this yourself if you think this could be important. parser - pointer to an INIPARSER to write back to disk RESULTS error - INIERROR as defined in libraries/ini.h SEE ALSO ini_ChangeString, ini_RemoveVariable 1.21 AUTHOR

Send your bug reports, ideas, love letters, fresh'n'phunky vinyl to Gerson Kurz Karl Köglsperger Str.7 / A303 (yes, its APPARTMENT 303, not Roland TB 303 ;-) 80939 München West Germany

This tool is dedicated to the **ULTRAWORLD** (Fuck the Sperrstunde!)

1.22 DISTRIBUTION

** The INI.LIBRARY is I-WANT-TO-BE-FREE-WARE ** dedicated to the global house & techno scene written by

Gerson Kurz

The ini.library may be used by and FREELY distributed with any $\, \hookleftarrow \,$ application

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