

**rmhenglish**

<b>COLLABORATORS</b>
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# Chapter 1

## rmhenglish

### 1.1 RexxMustHave - Version 6.0 @ 1999, 2000 Alfonso Ranieri

RexxMustHave - Version 6.0 © 1999, 2000 Alfonso Ranieri

1. Introduction
2. Author
3. WRID
4. Terms
5. Bugs
6. Functions

### 1.2 introduction

#### 1. Introduction

The name of the library stands for Rexx Must Have:  
the library is a set of functions I think ARexx macros should have.

The library offers functions to:

- o manipulate:
    - . appicon            standard AmigaOS app icon
    - . commodities       standard AmigaOS cx
    - . notify             standard AmigaOS notify on file or clipboard changes
    - . timers             timer.device timers
  - o allocate signal and use them in a standard AmigaOS signals events driven programming style
  - o parse arguments and files with the most powerful ReadArgs around and the very cute examine .
  - o help programmer with many functions that handle date, time, environment vars and so on.
-

All resources created are automagically freed at the exit of the macro.

All objects, e.g. timers or notifies, are named with unique integers.

## 1.3 author

### 2. Author

I am Alfonso Ranieri

My e-mail address is alforan@tin.it

You can find me on irc at:

- #amigaita ircnet
- #amyita ircnet

You can find last version of this library at my home page:

<http://web.tiscalinet.it/amiga/>

## 1.4 Warning, Requirements, Installation and Distribution

### 3. Warning, Requirements, Installation and Distribution

#### Warning

THIS SOFTWARE AND INFORMATION ARE PROVIDED AS IS.  
ALL USE IS AT YOUR OWN RISK, AND NO LIABILITY OR  
RESPONSIBILITY IS ASSUMED. NO WARRANTIES ARE MADE.

#### Requirements

The library needs AmigaOS, version or higher.

#### Installation

Use the installation script.

#### Distribution

rmh.library is FreeWare.

You are free to distribute it as long as the original archive  
is kept intact. Commercial use or its inclusion in other  
software package is prohibited without prior written consents  
from the Author.

## 1.5 terms

### 4. Terms

---

The main terms used are:

- o stem or stemName: a valid ARexx variable name e.g. var, var.0, var.name
- o DateStamp: a stem set by macro or returned by functions, with the fields:
  - . DAYS
  - . MINUTE
  - . TICK
 set;
- o TimeVal: a stem set by macro or returned by functions, with the fields:
  - . SECS
  - . MICRO
 set;
- o types of arguments: the types used are:
 

D	any data	--
N	numeric	/N
S	symbol	/S ARexx valid symbol
V	stemName	/V ARexx valid symbol as S but with length<20

## 1.6 bugs

### 5. Bugs

1. for some strange reason, maybe same patch to dos.library, the default flags in SetVar() and GetVar() is taken as "LOCAL" rather than "GLOBAL", so specify "GLOBAL" when using SetVar() GetVar();
2. I did my best to make ParseDate() as safe as I could; if you have any problem using it, please report it to me.

## 1.7 functions

### 6. Functions

The functions have also the "RMH\_"FunctionName form to avoid conflicts with functions from other libraries.

DOS

ChangeMode	CreateTempFile	DosString	Expand
IsInteractive	Lock	Match	MatchPatter
NameFromFile	RealName	SetComment	SetOwner
ParsePattern	ReadArgs	ReadFile	WaitForChar



Notify				
CheckNotify	FreeNotify	NotifySignal	StartNotify	
AppIcon				
AddAppIcon	AppIconSignal	FreeAppIcon	HandleAppIcon	
Commodity				
AddCxCxSignal	FreeCx	HandleCx	VerifyHotkey	
Faults				
AddPart	Fault	FilePart	IoErr	
PathPart	PrintFault	ProgramName	SetIoErr	
Signals				
AllocSignal	and	CheckSignal	FreeSignal	
or	PortSignal	SetSignal	Signal	
Wait	xor			
Date and time				
AddTime	CheckTimer	CmpTime	CompareDates	
CreateTimer	Date2GMT	ds2tv	FormatDate	
FreeTimer	GetDate	GetFileDate	GetSysTime	
GetTZ	GMTOffset	ParseDate	SetFileDate	
StartTimer	StopTimer	SubTime	SetSysTime	
TimerSignal	tv2ds			
Vars				
DeleteVar	GetVar	SetVar		
Various				
AddLibrary	EasyRequest	FrontMostScreen	GetToolType	
GetUniqueID	Help	OpenURL	ParseConfig	
PortWait	PutToolType	ReadTextClip	Requester	
SetRexxVar	SetStem	WriteTextClip		

## 1.8 addappicon

AddAppIcon - creates an appicon.

### Synopsis

```
appIconID = AddAppIcon(name, icon)
<name>, [icon]
```

### Function

Adds an appicon on the workbench screen.  
An appicon is a standard AmigaOS appicon.

name is the name of the appicon.  
icon is the name of a info file, without the .info suffix.  
If icon is not given or the icon can't be found, the system  
tools default icon is used.

The appicon is freed at the exit of the macro if it wasn't yet.

#### Inputs

name - the name of the appicon  
icon - the icon file to use

#### Result

appIconID - the appicon ID, 0 for failure

#### See

AppIconSignal FreeAppIcon HandleAppIcon .

## 1.9 addcx

AddCx - adds a commodity.

#### Synopsis

```
cxID = AddCx(name,title,desc,flags,hotkey)
<name>,<title>,<descr>,[flag],[hotkey]
```

#### Function

Adds a commodity.  
A commodity is a standard but limited AmigaOS commodity.

flags is one or more of:

- o UNIQUE           only one cx with name is allowed
- o NOTIFY          notify me if someone try to open another cx with name
- o SHOWHIDE        receive APPEAR DISAPPEAR
- o DISKINSERTED    receive a DISKINSERTED event when a disk is inserted
- o DISKREMOVED     receive a DISKREMOVED event when a disk is removed

hotkey is a valid hotkey description. If it is specified, the  
cx will receive a HOTKEY event when this sequence is used.

#### Inputs

name     - the name of the commodity as in Exchange  
text     - the text as in Exchange  
descr2   - the description as in Exchange  
flags    - see above  
hotkey   - a hotkey description

---

## Result

```

cxID - an integer:
. 0  a UNIQUE cx with named name already exists
. 1  invalid hotkey description
. otherwise cxID

```

## See

```

CxSignal FreeCx HandleCx .

```

## 1.10 addlibrary

AddLibrary - adds a library.

## Synopsis

```

res = AddLibrary(<lib1>,{lib})
<lib1>,{lib}

```

## Function

Adds to the ARexx libraries list till to 15 libraries with the query offset at -30 and priority 0.

Don't use this function with libraries that doesn't have the ARexx query function offset at -30 (e.g. with `openurl.library`)!!!

Each library is first checked to be already in the ARexx library list, the a try to open it is made.

## Inputs

```

lib1 - first library to add (required)
libi - ith library to add (optional)
...

```

## Result

```

res - an integer:
. 0  all ok
. >0  n-th lib can't be added. The var "Result" is set to the name ↔
      that failed.

```

## Example

```

...
if Addlibrary(name1,name2)>0 then do /* failure */
  say "can't add '"Result"'"
  exit
end
...

```

## 1.11 addpart

AddPart - adds a path to a filename.

### Synopsis

```
complete = AddPart(path,file)
<path>,<file>
```

### Function

Adds path to file.

### Inputs

path - the path  
file - the file name

### Result

complete - complete path to file.

### See

FilePart PathPart .

## 1.12 addtime

AddTime - adds 2 timeval.

### Synopsis

```
call AddTime(time1,time2)
<time1/V>,<time2/V>
```

### Function

Adds time1 to time2, result in time1.

### Inputs

time1 - a timeval to adds to time2 and where to store the result  
time2 - a timeval to add to time1

### Result

none

### See

CmpTime GetSysTime SubTime SetSysTime .

---

## 1.13 allocsignal

AllocSignal - allocates an Exec signal.

### Synopsis

```
sigBit = AllocSignal()  
-
```

### Function

Allocates and returns a signal bit.

### Inputs

none

### Result

sigBit - the signal bit or -1 for failure.

### See

CheckSignal FreeSignal signal wait .

## 1.14 and

and - ands integers

### Synopsis

```
res = and(val1, val2, ..)  
<val1/N>, <val2/N>, {val/N}
```

### Function

Ands up to 15 integer.

### Inputs

val1 - an integer (required)  
val2 - an integer (required)  
vali - i-th integer to and (optional)

### Result

res - the inclusive ands of the arguments

### See

or wait .

---

## 1.15 appiconsignal

AppIconSignal - returns a appicon signal.

### Synopsis

```
signal = AppIconSignal(appIconID)
<appIconID/N>
```

### Function

appIconID is the ID of an appicon created with AddAppIcon().  
The functions returns the signal to wait for appicon events.

### Inputs

appIconID - an appicon ID

### Result

res - the signal of the appicon

### See

AddAppIcon FreeAppIcon HandleAppIcon .

## 1.16 changemode

ChangeMode - changes the mode of a file or a lock.

### Synopsis

```
res = ChangeMode(file,mode)
<file>,<mode>
```

### Function

Changes the mode of a file or a lock opened in this macro.

mode is one of:

- o EXCLUSIVE
- o SHARED

### Inputs

file - the logical name of a file  
mode - the new mode, see above

## 1.17 checknotify

CheckNotify - checks a notify.

---

#### Synopsis

```
res = CheckNotify(notifyID)
<notifyID/N>
```

#### Function

notifyID is a notify created with StartNotify().

The function checks if the notify notified the macro (the object content changed).

#### Inputs

notifyID - the ID of a notify

#### Result

res - an ARexx boolean.

#### See

FreeNotify NotifySignal StartNotify .

## 1.18 checksignal

CheckSignal - checks signals.

#### Synopsis

```
rec = CheckSignal(mask)
<mask/N>
```

#### Function

Checks the signals specified in mask.  
The signals are cleared.

#### Inputs

mask - the signals to check.

#### Result

res - the signals in mask that are set.

#### See

AllocSignal FreeSignal signal wait .

## 1.19 checktimer

---

CheckTimer - checks a timer

#### Synopsis

```
res = CheckTimer(timerID)
<timerID/N>
```

#### Function

timerID is the ID of a timer create by CreateTimer().

The function checks if the timer completed.

If the timer was not started, the function returns 1, as the timer completed.

#### Inputs

timerID - the ID of a timer

#### Result

res - an Arexx boolean.

#### See

CreateTimer FreeTimer StartTimer StopTimer .

## 1.20 cmptime

CmpTime - compares 2 timeval

#### Synopsis

```
res = CmpTime(time1,time2)
<time1/V>,<time2/V>
```

#### Function

Compares time1 to time2, 2 timeval structures.

#### Inputs

time1 - a timeval  
time2 - a timeval

#### Result

res - an integer:

- . <0 time1<time2
- . 0 time1=time2
- . >0 time1>time2



See

AddTime GetSysTime SubTime SetSysTime .

## 1.21 comparedates

CompareDates - compares 2 dates

Synopsis

```
res = CompareDates(date1,date2)
<date1/V>,<date2/V>
```

Function

Compares date1 and date2, 2 DateStamp.

Inputs

date1 - a DateStamp  
date2 - a DateStamp

Result

```
res - an integer:
. <0 date1>date2
. 0 date1==date2
. >0 date1<date2
```

See

ds2tv FormatDate GetDate GetFileDate ParseDate SetFileDate tv2ds .

## 1.22 createtempfile

CreateTempFile - creates a temporary file.

Synopsis

```
name = CreateTempFile()
-
```

Function

Opens an unique temporary file in T: and return it's complete name.

Temporary means that at the exit of the macro the file is be deleted.

The file is not open in the macro; if you need to write to it, just do a open() with the name returned by this function.

---

Inputs  
none

Result  
name - the DOS name of the file (not the logical one)

## 1.23 createtimer

CreateTimer - creates a timer.

Synopsis  
timerID = CreateTimer()  
-

Function  
Creates a timer.  
A timer can be used to create timeout, to wait for specific amount of time,  
to break a wait loop and so on.

Inputs  
none

Result  
timerID - the ID of the timer

See  
CheckTimer FreeTimer StartTimer StopTimer .

## 1.24 cxsignal

CxSignal - return the signal of a commodity.

Synopsis  
signal = CxSignal(cxID)  
<cxID/N>

Function  
cxID is the ID of a commodity created with AddCx().  
  
The function returns the signal of the commodity to wait for  
commodity events.

---

#### Inputs

cxID - the ID of a commodity.

#### Result

signal - the signal of the commodity

#### See

AddCx FreeCx HandleCx .

## 1.25 date2gmt

date2GMT - converts to GMF format

#### Synopsis

```
res = date2GMT(date)
<date/V>
```

#### Function

date is a DateStamp.

The function convert it to the GMT format, according to ENV:TZ. If ENV:TZ doesn't exist, the date remains untouched.

The function takes care of the presence of the daylight in TZ.

#### Inputs

date - an ARexx stem name set as Datestamp

#### Result

res - an integer:

- . 0 TZ is not present in ENV:
- . 1 TZ is present in ENV: and the date was converted

#### See

GetDate GetTZ GMTOffset .

## 1.26 deletevar

DeleteVar - delete a DOS var

#### Synopsis

```
call DeleteVar(name,options)
<name>,[options]
```

#### Function

Deletes the DOS var named name.

option is one or more of:

- o VAR
- o ALIAS
- o IGNORE
- o GLOBAL
- o BINARY
- o NTNULL
- o SAVE

The default is "VAR GLOBAL"

#### Inputs

name - the name of the var  
options - see above

#### See

GetVar SetVar .

## 1.27 dosstring

DosString - returns a localized I/O error string.

#### Synopsis

```
string = DosString(code)
[code/N]
```

#### Function

Returns a localized I/O error string.

If code is omitted, it is assumed to be the current IoErr .

#### Inputs

code - the I/O error coed

#### Return

string - the localized string associated with code

## 1.28 ds2tv

ds2tv - converts DateStamp to timeval

#### Synopsis

```
call ds2tv(from,to)
```

---

<from/V>, [to/V]

#### Function

Converts from, a DateStamp, to a TimeVal, writing it in from or in to, if supplied.

#### Inputs

from - an ARexx stem name set as DateStamp  
to - an ARexx stem name where function will set as timeval

#### Result

none

#### See

CompareDates FormatDate GetDate GetFileDate ParseDate SetFileDate tv2ds .

## 1.29 easyrequest

EasyRequest - shows an Intuition requester

#### Synopsis

```
res = EasyRequest(text,title,gadgetText,screenName,flags,idcmp)
<text>,[title],[gadgetText],[screenName],[flags],[idcmp/N]
```

#### Function

Creates and shows and intuition easy requester.

text and gadgetText can contain a % but only followed by an another % .

#### Inputs

text - the text of the requester  
title - the title (default "ARexx Macro Request")  
gadgetText - the string for gadgets text; each gadgetText must be separated by the other with a | (e.g. "a|b|c" creates 3 gadgets a ← b c)  
(default " OK ")  
screenName - the name of a public screen where to open the requester  
flags - controls the function, one of  
. NOFALLBACK  
if present makes the function do not open the requester on the default public screen if the screenName doesn't exist, but to fail

idcmp - an integer value of IDCMP flags which will close the requester

#### Returns:

res - an integer:  
. -1 idcmp received ( RC is set to the idcmp received)

```

.      0      last gadget pressed
. n>=0      gadget number n was pressed.
           Gadget are counted from left to right and first is number 1, ←
           last 0.

```

See

requester .

## 1.30 expand

expand - returns directory entries.

### Synopsis

```

numb = expand(stem,pattern,flags)
<stem/V>,<pattern>,flags

```

### Function

Reads entries which match given pattern.

flags is one of:

- o FILE
  - only files are read
- o DIR
  - only dir are read

Entries are written in fields.i,...,fields.x where x=num-1.

The fields set are:

- o DIRENTRYTYPE     as TYPE but numeric
- o TYPE             FILE or DIR
- o DATE             DateStamp structure
- o ENTRYTYPE
- o PROTECTION
- o SIZE
- o NUMBLOCKS
- o COMMENT
- o OWNERUID
- o OWNERGID

### Inputs

stem - an ARexx stem name  
 pattern - an AmigaDOS pattern  
 flags - see above

### Result

numb - the number of the entries that match pattern.

## 1.31 fault

fault - returns a fault string.

### Synopsis

```
string = fault(code,msg)
[code/N], [msg]
```

### Function

Returns the string:

```
msg: DoString(code)
```

If code is omitted, it is assumed to be the current IoErr.

If msg is not specified it is assumed to be the macro name with no extension.

### Inputs

```
code - an I/O error code
msg - the message to prefix
```

### Result

```
string - the fault string
```

### See

```
Printfault IoErr DosString
```

## 1.32 filepart

FilePart - returns the file part of a path

### Synopsis

```
file = filepart(path)
<path>
```

### Function

Returns the file part of path.

### Inputs

```
path - the complete path to a file
```

### Result

```
file - the file part of path
```

---

See

AddPart PathPart

## 1.33 formatdate

FormatDate - converts DateStamp to string.

### Synopsis

```
date = FormatDate(date,fmt,locale)
[date/V],[fmt],[locale]
```

### Function

Converts date a DateStamp to a string, according with the format flags in fmt and the locale.

If date is supplied, it must be a stem set as a DateStamp and the date is read from it. If it is omitted, the date is the current system date.

If fmt is supplied, it must be a valid locale/FormatDate format string. If it is omitted, it is the "short date format" of the locale.

Valid fmt commands are:

- o %a - abbreviated weekday name
  - o %A - weekday name
  - o %b - abbreviated month name
  - o %B - month name
  - o %c - same as "%a %b %d %H:%M:%S %Y"
  - o %C - same as "%a %b %e %T %Z %Y"
  - o %d - day number with leading 0s
  - o %D - same as "%m/%d/%y"
  - o %e - day number with leading spaces
  - o %h - abbreviated month name
  - o %H - hour using 24-hour style with leading 0s
  - o %I - hour using 12-hour style with leading 0s
  - o %j - julian date
  - o %m - month number with leading 0s
  - o %M - the number of minutes with leading 0s
  - o %n - insert a linefeed
  - o %p - AM or PM strings
  - o %q - hour using 24-hour style
  - o %Q - hour using 12-hour style
  - o %r - same as "%I:%M:%S %p"
  - o %R - same as "%H:%M"
  - o %S - number of seconds with leading 0s
  - o %t - insert a tab character
  - o %T - same as "%H:%M:%S"
  - o %U - week number, taking Sunday as first day of week
  - o %w - weekday number
  - o %W - week number, taking Monday as first day of week
  - o %x - same as "%m/%d/%y"
-



- o %X - same as "%H:%M:%S"
- o %y - year using two digits with leading 0s
- o %Y - year using four digits with leading 0s

If locale is supplied, the functions tries to open it to format the date in that locale way. If it is omitted, locale is the default locale of the system.

#### Inputs

date - an ARexx stem name set as DateStamp  
fmt - a format flags string, see above  
locale - a locale name

#### Result

date - a date string

#### See

CompareDates ds2tv GetDate GetFileDate ParseDate SetFileDate tv2ds .

## 1.34 freeappicon

FreeAppIcon - deletes an appicon.

#### Synopsis

```
call FreeAppIcon(appIconID)
<appIconID/N>
```

#### Function

Deletes an appicon created with AddAppIcon().

appIconID is the appicon ID returned by AddAppIcon().

#### Inputs

appIconID - an appicon D

#### Result

none

#### See

AddAppIcon AppIconSignal HandleAppIcon .

## 1.35 freecx

---

FreeCx - deletes a commodity.

#### Synopsis

```
call FreeCx(cxID)
<cxID/N>
```

#### Function

Deletes a commodity created with AddCx().

#### Inputs

cxID - the commodity ID returned by AddCx().

#### Result

none

#### See

AddCx CxSignal HandleCx .

## 1.36 freesignal

FreeSignal - frees a signal bit.

#### Synopsis

```
call FreeSignal(signal)
<signal/N>
```

#### Function

Frees a signal bit allocated with AllocSignal().

#### Inputs

signal - a signal bit

#### Result

none

#### See

AllocSignal CheckSignal signal wait .

## 1.37 freenotify

---

FreeNotify - frees a notify.

#### Synopsis

```
call FreeNotify(notifyID)
<notifyID/N>
```

#### Function

Frees a notify.

#### Inputs

notifyID - the notify ID returned by StartNotify()

#### Result

none

#### See

CheckNotify NotifySignal StartNotify .

## 1.38 freetimer

FreeTimer - frees a timer.

#### Synopsis

```
call FreeTimer(timerID)
<timerID/N>
```

#### Function

Frees a timer.

#### Inputs

timerID - the timer ID returned by CreateTimer()

#### Result

none

#### See

CheckTimer CreateTimer StartTimer StopTimer .

## 1.39 getdate

GetDate - returns current date.

---

**Synopsis**

```
res = GetDate(date, flags)
<date/V>, [flags]
```

**Function**

Reads the system date and set date as a DateStamp struct.

flags is one of

- o GMT

If GMT is specified, the date is returned in the GMT format according to the ENV:TZ.

If GMT is specified, but ENV:TZ doesn't exist, the date returned is the current system date, but not converted to the GMT format.

**Inputs**

date - an ARexx stem name set by the function as a DateStamp  
 flags - see above

**Retult**

res - an integer:  
 . 0 GMT was specified but ENV:TZ doesn't exist  
 . 1 GMT was not specified or it was and ENV:TZ exists

**See**

CompareDates ds2tv FormatDate GetFileDate ParseDate SetFileDate tv2ds .

## 1.40 getfiledate

GetFileDate - returns a file date

**Synopsis**

```
res = GetFileDate(fileName, date)
<fileName>, <date/V>
```

**Function**

Reads the date of fileName and set date as a DateStamp.

**Inputs**

fileName - the name of a file  
 date - an ARexx stem name set by the function as a DateStamp

**Result**

res - an ARexx integer:  
 . 0 the file was not found  
 . 1 success

Bug

Should accept a GMT flag.

See

CompareDates ds2tv FormatDate GetDate ParseDate SetFileDate tv2ds .

## 1.41 getsystime

GetSysTime - returns the system time.

Synopsis

```
call GetSysTime(time)
<time/V>
```

Function

Sets time as a TimeVal from the current system time.

Inputs

time - an ARExx stem name set by the function as a timeval

Result

none

See

AddTime CmpTime SubTime SetSysTime .

## 1.42 gettz

GetTZ - reads ENV:TZ

Synopsis

```
res = GetTZ(stem)
<stem/V>
```

Function

Reads ENV:TZ, if it exists, and sets in stem the fields:

- o daylight - boolean, the daylight string is present
- o timezone - number of seconds to ADD to convert to GMT
- o tzstn - timezone string;
- o tzdtn - daylight string, if present

---

#### Inputs

stem - an ARexx stem name

#### Result

res - an integer:  
    . 0 TZ doesn't exist (no fields is set)  
    . - 1 TZ exist

#### See

date2GMT GetDate GMTOffset .

## 1.43 getuniqueid

GetUniqueID - returns an unique integer

#### Synopsis

id = GetUniqueID()  
-

#### Function

Each call to this function returns an unique integer.

#### Inputs

none

#### Result

id - an unique integer

## 1.44 getvar

GetVar - reads a system var.

#### Synopsis

var = GetVar(name,options)  
<name>,[options]

#### Function

Gets the value of the var name.

options is one or more of:

- o VAR
  - o ALIAS
  - o IGNORE
-

- o GLOBAL
- o BINARY
- o NTNULL
- o SAVE

The default is "VAR".

#### Inputs

name - the name of the var to read  
options - see above

#### Result

var - the content of the var or an empty string

#### See

DeleteVar SetVar .

## 1.45 gmtoffset

GMTOffset - returns the GMT offset as set in a locale.

#### Synopsis

```
gmo = GMTOffset(locale)
[locale]
```

#### Function

Reads the GMT offset in minutes from the locale.

#### Inputs

locale - a locale name

#### Result

gmo - the gmt offset

#### Note

The function is deprecated: use GetTZ that reads ENV:TZ (AmigaOS locale has no daylight field) .

#### See

date2GMT GetDate GetTZ .

## 1.46 handleappicon

HandleAppIcon - handles an appicon.

---

### Synopsis

```
numMsg = HandleAppIcon(appIconID,handle)
<appIconID>,<handle/V>
```

### Function

Handles an appicon.

appIconID is the appicon ID returned by AddAppIcon().

The following fields of handle can be set:

- o WAIT - wait for messages from the appicon, default 1
- o CTRLC - wait for a ctrl-c as well, default 0
- o SIGNALS - wait for this signals too, default 0

The functions returns the number of the messages pending and sets the fields:

- o handle.i.CLASS that can be:
    - . DOUBLECLICK - the user doubleclicked the icon
    - . DROP - icons were dropped over this appicon
- i = 0,...,n n = numMsg-1

If the class is DROP there are set the fields:

- o .i.DROPNUM the number of icons dropped
- o .i.NAME.j the name of the j-th icon
- o .i.LOCK.j a boolean set if the above has a lock  
(e.g. if another appicon is dropped over an appicon  
the lock will be 0)

where j = 0,...,m m = .i.DROPNUM-1

### Bug

With AmigaOS 3.5, an AppIcon dropped into another AppIcon is returned as a DOUBLECLICK.

### See

AddAppIcon AppIconSignal FreeAppIcon .

## 1.47 handlecx

HandleC - handles a cx

### Synopsis

```
numMsg = HandleCx(cxID,handle)
<cxID>,<handle/V>
```

### Function

Handles a cx

cxID is the cx ID returned by AddCx() .

The following fields of handle can be set:



- o WAIT wait for messages from the cx - default 1
- o CTRLC wait for a ctrl-c as well - default 0
- o SIGNALS wait for this signals too - default 0

The functions returns the number of the messages that were pending and sets the fields:

- o .i.CLASS that can be:
    - HOTKEY the hotkey was pressed  
(only if you specified hotkey in AddCx())
    - DISABLE pressed the gadget Disable in Exchange
    - UNABLE pressed the gadget Unable in Exchange  
(only if you specified NOTIFY in AddCx() flags)
    - KILL pressed the gadget Remove in Exchange
    - UNIQUE someone opened a cx with the same name
    - APPEAR pressed the gadget Show in Exchange  
(only if you specified SHOWHIDE in AddCx() flags)
    - DISAPPEAR pressed the gadget Hide in Exchange  
(only if you specified SHOWHIDE in AddCx() flags)
    - LISTCHG someone changed the cx list
    - DISKINSERTED a disk was inserted
    - DISKREMOVED a disk was removed
- where i = 0,...,n n = numMsg-1

#### Inputs

- cxID - a cx id
- handle - an ARexx stem name

#### Result

- numMsg - the number of messages pending

#### See

AddCx CxSignal FreeCx .

## 1.48 help

help - returns a REXXMustHave functions help strings.

#### Synopsis

```
string = help(funName)
<funName/S>
```

#### Function

Returns the arguments types mask of the function funName.

#### Inputs

- funName - a REXXMustHave function name

#### Result

---

string - a help string

## 1.49 ioerr

IoErr - returns and clears DOS I/O error.

### Synopsis

```
err = IoErr()  
-
```

### Function

Returns and clears the current I/O error code.

### Inputs

none

### Result

err - the I/O error.

## 1.50 isinteractive

IsInteractive - checks if a file is interactive.

### Synopsis

```
res = IsInteractive(file)  
<file>
```

### Function

Checks if file is interactive, e.g. like a stdout console.

### Inputs

file - a filename

### Result

res - an ARexx boolean

## 1.51 lock

lock - creates a lock.

### Synopsis

---

```
res = lock(logic,name,mode)
<logic>,<name>,[mode]
```

#### Function

Creates a lock on name, with a logic name logic.

mode is one of:

- o EXCLUSIVE
- o SHARED (default)

The function just works as internal ARexx open() , but rather than opening a file, creates a lock.

Many people asked me to insert in rmh.library a lock() function, so here it is, but I don't know how useful it will be.

The lock can be unlock via the standard ARexx close() function, anyway it is at macro exit.

ARexx sees the lock as a normal file, e.g. it appears in show(f) . Anyway, there is no problem if you use a logic name referring a lock rather than a file in the ARexx io functions, because of a NIL: file is also created, e.g. if you do a

```
call lock(ram,"ram:")
call writeln(ram,hello)
```

nothing happens.

#### Inputs

logic - the logical name of the lock  
name - the name of the AMigaDOS file/drawer to lock  
mode - the mode of the lock

#### Result

res - an ARexx boolean

## 1.52 match

Match - AmigaDOS pattern matching.

#### Synopsis

```
res = MatchPattern(pattern,string,flags)
<pattern>,<string>,flags
```

#### Function

Verifies if string matches pattern.

---

pattern is a AmigaDOS pattern string (NOT the result of ParsePattern()).

flags is one or more of:

- o CASE  
the matching is case sensitive.

#### Inputs

pattern - a pattern string  
string - the string to match  
flags - see above

#### Result

res - an ARexx boolean

#### See

MatchPattern .

## 1.53 matchpattern

MatchPattern - AmigaDOS pattern matching.

#### Synopsis

```
res = MatchPattern(pattern,string,flags)
<pattern>,<string>,flags
```

#### Function

Verifies if string matches pattern.

pattern is be the result of ParsePattern().

flags is one or more of:

- o CASE  
the matching is case sensitive.

#### Inputs

pattern - a pattern, the result of ParsePattern().  
string - the string to match  
flags - see above

#### Result

res - an ARexx boolean

#### See

Match ParsePattern .

---

## 1.54 namefromfile

NameFromFile - returns a file name from a logical name.

### Synopsis

```
signal = NameFromFile(logical,var)
<logical>,<var/S>
```

### Function

logical is a logical name of a file or a lock opened in the macro.  
The functions writes the AmigaDOS name of logical in var.

### Inputs

logical - a logical name of a file or a lock  
var - an ARexx var name

### Result

res - an ARexx boolean

## 1.55 notifysignal

NotifySignal - returns the signal of a notify

### Synopsis

```
signal = NotifySignal(notifyID)
<notifyID/N>
```

### Function

Returns the signal of a notify.

### Inputs

notifyID - a notify ID

### Result

signal - the notify signal

### See

CheckNotify FreeNotify StartNotify .

## 1.56 openurl

OpenURL - opens an url.

---

#### Synopsis

```
res = OpenURL(url, flags)
<url>, [flags]
```

#### Function

ARexx bridge to openurl.library/URL\_OpenA.

Stop using script to send url to browsers, just use this function  
et voila.

flags is one or more of:

- o SHOW
- o BRINGTOFRONT
- o NEWWINDOW
- o LAUNCH

If flags is omitted, global OpenURL preferences are used.

url is the url to open.

#### Inputs

url - the url to open  
flags - see above

#### Result

res - an integer

- . -1 OpenURL.library is not installed in the system;
- . 0 OpenURL.library couldn't contact any browser
- . 1 success

#### Note

Troels put an ARexx interface in OpenURL, so use  
openurl.library/OpenUrl() instead of this function.

P.S.

Troels, great idea to use the same function name, with a  
different arguments syntax.

Pretty good: Amiga always needs a bit more of confusion.

## 1.57 or

or - ors integers

#### Synopsis

```
res = or(val1, val2, ...)  
<val1/N>, <val2/N>, {val/N}
```

#### Function

---

Ors up to 15 integers.

The functions is usefull to or signals to wait, as in  
`recSig=Wait(or(signal1,signal2))`

#### Inputs

`val1` - the first integer to or  
`val2` - the second integer to or  
 ...  
`valn` - the n-th integer to or

#### Result

`res` - the or of the arguments

#### See

and wait .

## 1.58 parseconfig

`ParseConfig` - parses a configuration file.

#### Synopsis

```
res = ParseConfig(file,stem,mode)
<file>,<stem/V>,[mode]
```

#### Function

Parses a configuration files.

A configuration file is an ascii file made of lines as

```
<option> {argument}.
```

During parsing are ignored:

- o empty lines
- o lines beginning with # or ;
- o lines after the 1024th
- o chars after a ;
- o char after the 256th

The functions write in stem

- o `.i` - option uppercased
- o `.i.value` - {args}, empty if none
- o `.i.line` - the line number (from 1) of the option  
 (NOTA BENE: `.i.line~i` usually)

mode is one or more of:

- o `SIMPLECOMMENT` - # doesn't start a comment
- o `NOUPPER` - option is not uppercased
- o `NOSTRIPSPACES` - every sequence of 2+ spaces or tabs in  
 args is translated in a single space

#### Inputs

file - the file to parse  
stem - an ARexx stem name  
mode - see above

#### Result

res - an integer:  
  . -1 file not found  
  . >=0 number of valid lines.

#### Example

lets suppose a.config is:

```
### Configuration file for a
###
NoGui
MODE sync
Wait yes ;wait the child to end
#
```

After the call

```
res=ParseConfig("a.config","CONF")
```

you will have:

res	3
conf.0	NOGUI
conf.0.value	
conf.0.line	3
conf.1	MODE
conf.1.value	sync
conf.1.line	4
conf.2	WAIT
conf.2.value	yes
conf.2.line	5

## 1.59 parsedate

ParseDate - parses a date.

#### Synopsis

```
res = ParseDate(string,fmt,stem,locale)
<string>,[fmt],[stem/V],[locale]
```

---



### Function

Verify if string is a well formatted date according to fmt and converts it to a DateStamp.

If fmt is present, it must be a valid locale/ParseDate format string: only

`%a %A %b %B %d %e %h %H %I %m %M %p %S %y %Y`

are accepted, all others generate ARexx error 18.

It means that after a "%" there must be one of:

`a A b B d e h H I m M p S y Y`

Sorry, but it would have crashed very easily without this protection (I think locale.library/ParseDate is the buggiest function in AmigaOS).

If fmt is omitted, it is the "short date format" of locale.

If stem is supplied, it is set as a DateStamp.

If locale is supplied, the functions tries to open it to parse the date in that locale way.

If it is omitted, locale is the default locale of the system.

The function was optimised to not block if trash data are present in string: it matches the number of the words present in fmt and passes to locale.library/ParseDate only that number of words. With this, it should be very stable now.

### Inputs

string - the string to parse  
 fmt - the format of the date  
 stem - an ARexx stem name  
 locale - a locale name

### Result

res - an ARexx boolean.

### See

`CompareDates ds2tv FormatDate GetDate GetFileDate SetFileDate tv2ds` .

## 1.60 parsepattern

ParsePattern - compiles an AmigaDOS pattern.

### Synopsis

`patt = ParsePattern(pattern, flag)`  
`<pattern>, [flag]`

---

#### Function

Creates a pattern to use with MatchPattern().

flag is one or more of:

- o CASE

#### Inputs

pattern - the pattern to compile

flag - see above

#### Return

patt - the compiled pattern

#### See

MatchPattern .

## 1.61 pathpart

PathPart - returns the path of a complete path to a file.

#### Synopsis

```
pathPart = PathPart(path)
<path>
```

#### Function

Returns the path part of path.

#### Inputs

path - a complete path o a file.

#### Result

pathPart - the parth part of path

#### See

AddPart FilePart .

## 1.62 portsignal

PortSignal - returns the signal of a port.

#### Synopsis

```
signal = PortSignal(portName)
<portName>
```

---

#### Function

Returns the signal of a in-macro-created port.

#### Inputs

portName - the name of a port created n the macro.

#### Result

signal - the signal of port

## 1.63 portwait

PortWait - waits for a port to appear.

#### Synopsis

```
secs = PortWait(portName,secs)
<portName>,[secs/N]
```

#### Function

Wait for portName to appears for secs seconds.

If secs is 0, the function waits for ever.

The function is breakkable via a ctrl-c.

Returns the seconds the function waited: 0 means the port didn't appear.

#### Inputs

portName - the name of the port to wait for  
secs - timeout in seconds

#### Result

secs - number of seconds waited

#### Example

```
if PortWait(NOTFYPORT,10)=0 then do
  say "sorry, NOTIFYPORT not opened in last 10 seconds"
  exit
end
```

## 1.64 printfault

PrintFault - prints a fault string.

#### Synopsis

```
call PrintFault(code,msg)
[code/N],[msg],[stderr]
```

#### Function

Prints to stderr the same string fault() would return.

If code is omitted, it is assumed to be the current IoErr.

If msg is omitted, it is assumed to be the macro name with no extension.

stderr must be a logic name of a file created in the macro,

The message is printed into:

- o stderr - if it is supplied,
- o "STDERR" - if such a file was opened in the macro
- o "STDOUT" - otherwise

#### Inputs

```
code    - an I/O error code
msg     - the head of message
stderr  - where to print the message
```

## 1.65 programname

ProgramName - returns the name of the macro

#### Synopsis

```
pname = ProgramName(mode)
[mode]
```

#### Function

Returns the program name of the macro.

mode is one of:

- o FULL
  - if supplied the complete path to the macro is returned
  - if not supplied, just the macro name is returned
- o NOEXT
  - works like no FULL, but only chars before the first ".",
  - if present, are returned
- o PATH
  - returns the path part of the macro

#### Inputs

mode - see above

---

## Result

pname - the name of the macro

## Example

Let's suppose the function is called from the macro  
 "Work:Inet/Amirc/Rexx/ban.amirx"

```

ProgramName()          --> ban.amirx
ProgramName("NOEXT")   --> ban
ProgramName("FULL")    --> Work:Inet/Amirc/Rexx/ban.amirx
ProgramName("PATH")    --> Work:Inet/Amirc/Rexx

```

## 1.66 readargs

ReadArgs - standard AmigaDOS arguments parsing.

### Synopsis

```

res = ReadArgs(template,help,stem,args)
<template>,[help],[stem/V],[args]

```

### Function

Calls dos/ReadArgs().

### Arguments:

- o template is the template of the arguments
- o help is the help string to prompt when a ? is given  
 (default template itself)
- o stem is the stem name where to write the arguments  
 (default PARM)
- o args is the arguments line for an online arguments parsing

If "STDERR" is opened (e.g. with open(STDERR,"CONSOLE:", "W")) all intermediate I/O operations are made with it.

The function writes (lets supposed stem is "PARM"),  
 counting them arguments from left to right:

- o parm.i.value  
 the value of the argument
  - o parm.i.flag  
 an ARExx boolean that indicates if the arguments was supplied
  - o parm.i.mult  
 number of MULTI if /M given for argument i
-

```

o parm.i.value.j
  multi value j of arguments i (j = 0 ... i.mult)

```

#### Inputs

```

template - the template
help      - the help string
stem      - an ARexx stemName, default "PARM"
args      - inline arguments string

```

#### Result

```

res - an ARexx boolean

```

#### Example

```

/* */

if ~ReadArgs("FILE/M/A,BUFFER=BUFF/N,QUICK/S") then do
  call PrintFault(IoErr(),ProgramName())
  exit
end

if parm.1.flag then say "BUFFER:" parm.1.value
if parm.2.flag then say QUICK

say "FILE(s):" parm.0.mult
do i = 0 to parm.0.mult

  num = expand(F,parm.0.value.i)
  do j = 0 to num-1
    say f.j
  end
end

end

```

#### See

```

fault IoErr PrintFault .

```

## 1.67 readfile

ReadFile - reads a file

#### Synopsis

```

chars = ReadFile(file)
<file>

```

#### Function

Reads and returns max 65535 chars from a file.

#### Inputs

file - an AmigaDOS file name

#### Result

chars - the first (max) 65535 chars of file

## 1.68 readtextclip

ReadTextClip - read text iff clipboard content.

#### Synopsis

```
res = ReadTextClip(var,clip)
<var/S>,[clip/N]
```

#### Function

Writes in var the text content of the clipboard unit clip.  
Default value for clip is 0.

#### Inputs

var - an ARexx var name  
clip - the clipboard unit to read

#### Result

res - an integer:

- . -1 clip len is greater than 65535, only first 65535 chars are returned in var
- . 0 failure, e.g. clip unit contains no text
- . 1 success

## 1.69 realname

RealName - returns a real path.

#### Synopsis

```
realName = RealName(logicName,flags)
<logicName>,[flags]
```

#### Function

Tries to get the real name for the specified logicName .

This is very useful to try to "resolve" a generic volume name not in AmigaDOS format to a device name .

The device MUST be mounted, or it fails.

---

flags is one of:

- o REQ  
if the device doesn't exist, a requester will be shown

#### Inputs

logicName - a logic name  
flags - see above

#### Result

realName - real path to logicName

#### Example

```
RealName("ram:") --> RAM:
RealName("s:") --> HD0:s
RealName("StorageCD#1:") --> CD0:
RealName(":") --> HD2:
RealName("") --> "current dir"
RealName("Sys:Disk.info") --> HD0:Disk.info
RealName("NOTEXISTS_DEVICE:") --> "" (IoErr() --> 218)
RealName("NOTEXISTS_DEVICE:", "REQ") --> "" (IoErr() --> 218 , shows a ↵
    requester)
RealName("NOTEXISTS_FILE") --> "" (IoErr() --> 205)
```

## 1.70 requester

requester - shows an AmigaDOS requester.

#### Synopsis

```
res = Requester(msg1, IDCMP, msg2, msg3, screen, flags)
<msg1>, [IDCMP/N], [msg2], [msg3], [screen], [flags]
```

#### Function

Opens a DOS requester, with 2 gadgets and waits for gadgets or IDCMP.

#### Inputs

msg1 - first line  
IDCMP - idcmp to wait too  
msg2 - second line  
msg3 - third line  
screenName - the name of a public screen where to open the requester  
flags - controls the function, one of  
    . NOFALLBACK  
        if present makes the function do not open the requester on the default public screen if the screenName doesn't exist, but to fail



Result

```
res - a integer:
    . 0 "Cancel" gadget pressed
    . 1 "Accept" gadget pressed or one of IDCMP came
```

Example

```
disk="Disk_bla_bla:"
res = 1
call pragma(W,NULL)
do while ~exists(disk) & res
    call pragma(W,1)
    res = requester(Insert disk "in any drive",x2d(8000))
    call pragma(W,NULL)
end
```

See

EasyRequest .

## 1.71 setcomment

SetCommen - sets a file comment

Synopsis

```
res = SetComment(file,comment)
<file>,<comment>
```

Function

Sets the comment of file.

file is an AmigaDOS file name with path,  
not an ARexx logical file name.

Returns an ARexx boolean.

## 1.72 gettooltype

GetToolType - reads an icon tooltype

Synopsis

```
res = GetToolType(icon,name,var,default)
<icon>,<name>,<var/S>,[default]
```

Function

Reads the tooltype name of the icon icon,

writing its value in var and using default,  
if name can't be found.

#### Inputs

icon - an icon name without the .info .  
name - the name of the tooltype to read  
var - where to write the tooltype value  
default - write this one in var if tooltype was not found

#### Result

res - a boolean to indicate if the icon and tooltype were found

## 1.73 puttooltype

PutToolType - writes an icon tooltype

#### Synopsis

```
res = PutToolType(icon,name,value,type,tool)
<icon>,<name>,<value>,[type],[tool]
```

#### Function

Sets the tooltype name of the icon icon to  
value.

If icon can't be found and type is supplied,  
a new brand icon of type type is created, and if  
tool is supplied, its default tool is set to tool .

icon is an icon name without the .info .

type is one of:

- o WBDISK
- o WBDRAWER
- o WBTOOL
- o WBPROJECT
- o WBGARBAGE
- o WBDEVICE
- o WBKICK
- o WBAPPICON

#### Inputs

icon - icon name without the .info .  
name - the tooltype to write  
value - the value to set the tooltype to  
type - create an icon of this type, if icon was not found  
tool - set the default tool to this tool in the brand new icon

#### Result

res - an ARexx boolean

---

## 1.74 frontmostscreen

FrontMostScreen - returns the name of the frontmost pub screen

### Synopsis

```
screen = FrontMostScreen()  
-
```

### Function

Returns the name of the frontmost public screen, or an empty string if the frontmost screen is not public or it is public but private.

### Result

screen - a public screen name or an empty string

## 1.75 setfiledate

SetFileDate - sets a file date.

### Synopsis

```
res = SetFileDate(fileName,date)  
<fileName>,<date/V>
```

### Function

Sets the date of fileName to the date defined in date a DateStamp.

### Inputs

fileName - a file name  
date - an ARexx stem name set as DateStamp

### Result

res - an ARexx boolean.

### See

CompareDates ds2tv FormatDate GetDate GetFileDate ParseDate tv2ds .

## 1.76 setowner

SetOwner - sets UID and GID of a file.

### Synopsis

```
res = SetOwner(file,GID,UID)
```

---

<file>,<GID/N>,<UID/N>

#### Function

Sets the group-id and the user-id of file.

file is a complete path to a file.

GID and UID are words;  
they and can be read with `expand()`.

#### Inputs

file - a complete path to a file  
GID - group-id (0...65535)  
UID - user-id (0...65535)

#### Result

res - an ARexx boolean.

## 1.77 setioerr

SetIoEr - sets the current I/O error

#### Synopsis

call SetIoErr(code)  
<code/N>

#### Function

Sets the current I/O error code.

#### Inputs

code - the new I/O error code

## 1.78 setrexxvar

SetRexxVar - sets a foreign ARexx var.

#### Synopsis

res = SetRexxVar(pkt,var,value)  
<pkt>,<var/S>,<value>

#### Function

pkt is an ARexx message received on a port.

---

The function sets var to value in the environment of the macro that sent pkt.

The function just checks if pkt is a good ARexx msg.

Don't use this function with a message send in an async way.

Any bad pkt generates ARexx error 17.

#### Inputs

pkt - an ARexx message  
var - the var to set  
value - the value to set var to

#### Result

res - an ARexx boolean (may fail iff pkt==Null())

## 1.79 setsignal

SetSignal - checks and sets signals.

#### Synopsis

sig = SetSignal(new,mask)  
<new/N>, <mask/N>

#### Function

Queries and modifies the state of the received signals as specified in mask .

Returns the signals set.

#### Inputs

new - the new value for the signals set  
mask - the signals

#### Result

sig - the signals set

#### Example

To query all signals:  
sig = SetSignal(0,0)

To query and clear the ctrl-c signal:  
sig = SetSignal(0,2\*\*12)

---

## 1.80 setstem

SetStem - set a compound field.

### Synopsis

```
call SetStem(stem,field,data)
<stem/V>,<field/V>,<data>
```

### Function

The function does:

```
stem.field=data
```

The function is useful to avoid using INTERPRET too often.

### Inputs

```
stem - an ARexx stem name
field - the field of stem to set
data - the value to set
```

### Result

none

## 1.81 setsystime

SetSysTime - sets the system time.

### Synopsis

```
call SetSysTime(time)
<time/V>
```

### Function

Sets the system time as defined in time, a TimeVal.

### Inputs

```
time - an ARexx stem name set as timeval
```

### Result

none

### See

AddTime CmpTime GetSysTime SubTime .

---

## 1.82 setvar

SetVar - sets an AmigaDOS var.

### Synopsis

```
res = SetVar(name,value,options)
<name>,<value>,[options]
```

### Function

Sets the var name to value .

options is one or more of:

- o VAR
- o ALIAS
- o IGNORE
- o GLOBAL
- o BINARY
- o NTNULL
- o SAVE

The default is "VAR GLOBAL".

### Inputs

name - a var name  
value - the value to set name  
options - see above

### Result

res - an ARexx boolean

### See

DeleteVar GetVar .

## 1.83 signal

signal - signals a task

### Synopsis

```
call signal(task,signals)
<task/N>,<signals/N>
```

### Function

Signals task with signals.

### Inputs

task - the task to signal  
signals - the signals mask to signal

---

Result  
none

Note  
DON'T PLAY WITH THIS FUNCTION.

See  
AllocSignal CheckSignal FreeSignal wait .

## 1.84 startnotify

StartNotify - creates a notify.

Synopsis  
notifyID = StartNotify(name,unit)  
<name>,[unit/N]

Function  
Creates and starts a notify.

Notification can be for files or clip units.

When name changes, the macro is signaled with a signal that can be obtained with NotifySignal().

If name is the string "CLIP", the notification occurs on the clip unit unit (default 0), otherwise name must be a valid AmigaDOS complete path to a file.

If the notify is not freed in the macro, it is freed at exit.

Inputs  
name - "CLIP" or a complete path to a file  
unit - if name is "CLIP", the clip unit (default 0)

Result  
res - an integer:  
    . <0 failure (e.g. name does not exists) . IoErr() can  
        be used to find the reason - ONLY FOR FILE  
    . >0 id of the notify

See  
CheckNotify FreeNotify NotifySignal .

---



## 1.85 starttimer

StartTimer - starts a timer.

### Synopsis

```
call StartTimer(timerID,secs,micros)
<timerID/N>,[secs/N],[micros/N]
```

### Function

Starts a timer to wait for secs seconds and micros microseconds.

timerID is the timer ID returned by CreateTimer().

The timer is started async, so you can go on doing what you want after this call.

To wait for the timer to complete obtain its signal via TimerSignal() and Wait() for it.

If the timer was already started, it is stopped and re-started with the new timeout.

If the timer is not stopped or not freed, it is stopped and freed at the exit of the macro.

### Inputs

```
timerID - the ID of a timer
secs    - the seconds to wait
micros  - the microseconds to wait
```

### Result

none

### See

CheckTimer CreateTimer FreeTimer StopTimer .

## 1.86 stoptimer

StopTimer - stops a timer

### Synopsis

```
call StopTimer(timerID)
<timerID/N>
```

### Function

Stops a timer.

---

timerID is the timer ID returned by CreateTimer().

#### Inputs

timerID - a timer ID

#### Result

none

#### See

CheckTimer CreateTimer FreeTimer StarTimer .

## 1.87 subtime

SubTime - subtracts 2 timeval

#### Synopsis

```
call SubTime(time1,time2)
<time1/V>,<time2/V>
```

#### Function

Subtracts time1 to time2, result in time2, both timeval structures.

#### Inputs

time1 - the timeval to subtract from time2  
time2 - the timeval to which subtract time1

#### Result

none

#### See

AddTime CmpTime GetSysTime SetSysTime .

## 1.88 timersignal

TimerSignal - returns a timer signal

#### Synopsis

```
signal = TimerSignal(timerID)
<timerID/N>
```

#### Function

Returns the signal of a timer.

---

#### Inputs

timerID - a timer ID

#### Result

signal the signal of timerID

## 1.89 tv2ds

tv2ds - converts from timeval to DateStamp

#### Synopsis

```
call tv2ds(from,to)
<from/V>, [to/V]
```

#### Function

Convert from from , a TimeVal, to DateStamp, writing in from or in to , if ↵ present.

#### Inputs

from - an ARexx stem name set as timeval  
to - an ARexx stem name

#### Result

none

#### See

CompareDates ds2tv FormatDate GetDate GetFileDate ParseDate SetFileDate .

## 1.90 verifyhotkey

VerifyHotkey - verifies an hotkey string.

#### Synopsis

```
res = VerifyHotkey(hotkey)
<hotkey>
```

#### Function

Verifies if hotkey is a valid Amiga Cx hotkey description.

#### Inputs

hotkey - the string to verify

---

#### Result

res - an ARexx boolean

## 1.91 wait

wait - waits for signals or timeout.

#### Synopsis

```
received = wait(signals,secs,micros)
<signals/N>,[secs/N],[micros/N]
```

#### Function

Waits for signals or secs seconds and micros microseconds .

#### Inputs

```
signals - the signals to wait
secs    - timeout
micros  - timeout
```

#### Result

received - the signals received or 0 on timeout.

#### See

AllocSignal and CheckSignal FreeSignal or signal .

## 1.92 waitforchar

WaitForChar - waits for chars.

#### Synopsis

```
res = WaitForChar(file,timeout)
<file>,<timeout/N>
```

#### Function

Waits for a char from an interactive file for timeout microseconds.

#### Inputs

```
file    - the file to wait chars from
timeout - microseconds timeout
```

#### Result

res

---

res - an integer: the char read or -1 (eof) on end of file

## 1.93 writetextclip

WriteTextCli - write text in the clipboard

### Synopsis

```
call writetextclip(text,clip)
<text>,[clip/N]
```

### Function

Writes text in the clipboard unit clip .  
Default value for clip is 0.

### Inputs

text - the text to write  
clip - the clip number

## 1.94 xor

xor - exclusive-ors integers.

### Synopsis

```
res = xor(val1,val2,...)
<val1/N>,<val2/N>,{val/N}
```

### Function

XOR up to 15 integers.

### Inputs

val1 - required integer  
val2 - required integer  
valn - optional integer

### Result

res - the xor of the arguments

### See

and or .

---