

in

Conversion program

COLLABORATORS

	<i>TITLE :</i> in		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
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REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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Chapter 1

in

1.1 The Front End

```
RIBlitzLibs v4.0
=====

Blitz Basic 2 Command libraries

(c)1994/95 Leading Edge Software

Libraries created by:
    Steven Matty
    &
    Stephen McNamara

Using Blitz Basic 2 by
    Acid Software

*AmigaGuide Command Database*

Doc >>> AmigaGuide conversion program:
    Stephen McNamara
```

1.2 RIAmosFuncLib

```
-----
====      RI AMOS Function Library V1.36 (C)1995      ====
-----
```

Written By Steven Matty
©1995 Leading Edge Software

This library was written primarily to emulate the functions that were present in AM*S but not in Blitz Basic 2. It began life as a load of Blitz Statements but was then converted to high speed 680x0. The library will continually be expanded upon.

Donations are not requested, but is always welcome. You may freely

distribute this library as long as all documentation is included in an unmodified form. *NO* distribution with commercial packages/magazines without express written permission.

Command Index

Command List:

```

success=Reserve(length) | (banknumber,length)
success=SwapBank(bank,bank)
Erase(banknumber)
EraseAll
address.l=Start(banknumber)
length.l=Length(banknumber)
success=BLoad(filename$) | (banknumber/address[,length,offset])
success=BSave(filename$,banknumber/address,length)
success=PLoad(filename$,banknumber/address)
bytes.l=FileSize(filename$)
banknumber=NextBank
bytes.l=MemFree
value.l=Max(value1.l,value2.l)
value.l=Min(value1.l,value2.l)
value.l=XOR(value1.l,value2.l)
id.w=Lisa
Reboot
code.b=KeyCode
CopyByte sourceaddress.l,destaddress.l,numbytes.l
CopyWord sourceaddress.l,destaddress.l,numwords.l
CopyLong sourceaddress.l,destaddress.l,numlongs.l
FillMem sourceaddress.l,numberbytes.l[,bytevalue.l]
CachesOff bitmask
CachesOn bitmask
number.l=Timer
ResetTimer
success=Rename(source$,dest$)
success=MakeDir(dirname$)
tagnumber.l=GTagValue[ (tagnumber) ]
success=CludgeShapes(shapenum#,numshapes,address)
success=CludgeSound(soundnumber,address)
success=FindVolume(volumename$)
status=BlitterDone
WaitBlitter
devicename$=DeviceName$(volumename$)
BlitterNasty On|Off
FuncLibVersion

```

```

***** NOTE *****
* AS FROM THIS VERSION (V1.36) *
* THERE WILL BE NO MORE COMMANDS *
* ADDED. INSTEAD, A NEW LIBRARY *
* CALLED RIAMOSPROFUNC WILL BE *
* RELEASED. THIS IS DUE TO LARGE *
* LIBRARY SIZE AND THE FACT THAT *
* BLITZ V1.90 DOES NOT INCLUDE *
* A LINKER. *
*****

```

```
***** NOTE *****
* VALID BANKS RANGE FROM 0-49 INCLUSIVE. DO NOT USE A VALUE GREATER THAN 49 *
* OR IT WILL BE INTERPRETED AS AN ADDRESS RATHER THAN A BANKNUMBER          *
*****
```

MEMORY AND FILE ACCESS

1.3 RIAmosFuncLib

Function: Reserve

Mode : Amiga/Blitz

Syntax : success=Reserve(length) | (banknumber,length[,requirements])

If only length is specified, then this function returns the number of the bank allocated or -1 for failure.

This will attempt to reserve <length> bytes of memory. If succesfull, it will return -1. If unsuccessful, 0 is returned.

The optional `<requirements>` parameter specifies which type of memory you want :

```
%1=PUBLIC
%10=CHIP
%100=FAST
%1000000000=LOCAL
%10000000000=24BITDMA
%100000000000=KICK
%1000000000000000000=CLEAR
%10000000000000000000=REVERSE
%10000000000000000000000000000000000000=NO_EXPUNGE
```

OR the values together for different combinations.

EXAMPLE:

```
suc=Reserve(0,1024,%10)    ; Reserve 1k of Chip Mem returns -1
suc=Reserve(1024)          ; Reserve 1k of Any Mem returns 1
```

1.4 RIAmosFuncLib

Statement: Erase

Mode : Amiga/Blitz

Syntax : Erase banknumber

The Erase command will erase the specified memory bank.

EXAMPLE:

```
suc=Reserve(0,1024,%10)    ; Reserve 1k of Chip Mem
Erase 0
```

1.5 RIAMosFuncLib

Statement: EraseAll

Mode : Amiga/Blitz
 Syntax : EraseAll

This command will erase ALL allocated memory banks.

EXAMPLE:

```
suc=Reserve(0,1024,%10)    ; Reserve 1k of Chip Mem
suc=Reserve(1,2048,0)      ; Reserve 1k of ANY Mem
EraseAll
```

1.6 RIAMosFuncLib

Function: BLoad

Mode : Amiga
 Syntax : success=BLoad(filename\$) | (filename\$,bank/addr[,length,offset,memtype])

If only filename\$ is specified, then the next available bank is allocated, and the command returns the number of the bank for success or -1 for failure.

If bank is specified, then the file is loaded into that bank. If address is specified then it is loaded to the address. Valid banks are 0-49.
 If the bank does not exist, Blitz will reserve a bank for you.
 If the bank does exist, Blitz will erase the bank from memory, and allocate a new one.
 The return result is -1 for success, or 0 for failure (not enough RAM, file not exist). If offset is specified, then <length> bytes will be read from the specified offset position in the file.
 If memtype is specified, then the file is loaded into a memory block of that particular memtype (see Reserve)
 If you wish to leave either length/offset unspecified, simply use the value 0

EXAMPLE:

```
suc=BLoad("s:startup-sequence",0) ; returns -1
suc=BLoad("c:dir",0,0,0,%10)      ; Loads into CHIP
suc=BLoad("c:list")                ; returns 1
```

1.7 RIAMosFuncLib

Function: PLoad

Mode : Amiga

Syntax : success=PLoad(filename\$,bank/address)

This will attempt to load the executable file to the specified address.
-1 is success, 0 is failure. The program must contain only a CODE
hunk and must be FULLY relocatable.

EXAMPLE:

```
suc=PLoad("c:dir",0)
```

1.8 RIAmosFuncLib

Function: BSave

Mode : Amiga

Syntax : success=BSave(filename\$,bank/address,length)

This will save <length> bytes at bank/address to the file. Return result
is -1 for success, 0 for failure. If length > bank length then the length
of the bank is saved instead. If 0 is specified, the entire bank is saved.

EXAMPLE:

```
suc=BLoad("c:dir",0,0,0,%10) ; Loads into CHIP  
suc=BSave("ram:temp",0)
```

1.9 RIAmosFuncLib

Function: Start

Mode : Amiga/Blitz

Syntax : start_address.l=Start(banknumber.b)

This will return the start address of the specified bank. (0=no bank)

EXAMPLE:

```
suc=Reserve(0,1024,%10)  
NPrint Start(0)  
MouseWait  
End
```

1.10 RIAmosFuncLib

Function: Length

Mode : Amiga/Blitz

Syntax : length_of_bank.l=Length(banknumber.b)

This will return the length of the specified bank in bytes. (0=No bank)

EXAMPLE:

```
suc=Reserve(0,1024,%10)
```

```
NPrint Length(0)
```

```
MouseWait
```

```
End
```

1.11 RIAmosFuncLib

Function: MemFree

Mode : Amiga/Blitz

Syntax : bytes.l=MemFree

This will return the total amount of Public Free RAM available to the system.

EXAMPLE:

```
NPrint "Total bytes free = ",MemFree
```

```
MouseWait
```

```
End
```

1.12 RIAmosFuncLib

Function: NextBank

Mode : Amiga/Blitz

Syntax : bank.b=NextBank

This will return the number of the first available bank (-1 if none free).

EXAMPLE:

```
suc=Reserve(0,1024)
```

```
suc=Reserve(0,2048)
```

```
NPrint NextBank
```

```
MouseWait
```

```
End
```

1.13 RIAmosFuncLib

Statement: FillMem

Mode : Amiga/Blitz

Syntax : FillMem address.l,length.l[,value.b]

This will fill 'length' bytes starting from the specified address with 'value'. If 'value' is ommitted, 0 is filled.

EXAMPLE:

```
suc=Reserve(0,1024) ; Allocate some memory
```

```
FillMem Start(0),Length(0) ; Clear it
```

```
MouseWait
```

```
End
```

1.14 RIAmosFuncLib

Statement: CopyByte

Mode : Amiga/Blitz

Syntax : CopyByte source.l,dest.l,num.l

This will copy <num> bytes from <source> to <dest>

EXAMPLE:

```
CopyByte Start(0),Start(1),Length(0)
```

1.15 RIAmosFuncLib

Statement: CopyWord

Mode : Amiga/Blitz

Syntax : CopyByte source.l,dest.l,num.l

This will copy <num> words from <source> to <dest>

EXAMPLE:

```
CopyWord Start(0),Start(1),Length(0)/2
```

1.16 RIAmosFuncLib

Statement: CopyLong

Mode : Amiga/Blitz

Syntax : CopyByte source.l,dest.l,num.l

This will copy <num> longwords from <source> to <dest>

EXAMPLE:

```
CopyLong Start(0),Start(1),Length(0)/4
```

1.17 RIAMosFuncLib

Function: MakeDir

Mode : Amiga

Syntax : success=MakeDir(name\$)

This function attempts to create a directory called <name\$>
If it is unsuccessful, 0 is returned else -1 is returned.

EXAMPLE:

```
suc=MakeDir("RAM:MYDIR")
```

1.18 RIAMosFuncLib

Function: Rename

Mode : Amiga

Syntax : success=Rename(source\$,dest\$)

This attempts to rename the file <source\$> to <dest\$>
NOTE: It is not possible to rename across devices.
-1 is returned if successful, else 0.

EXAMPLE:

```
suc=Rename("S:Startup-Sequence","S:Startup2") ; Do not run this!
```

1.19 RIAMosFuncLib

Function: Timer

Mode : Amiga/Blitz

Syntax : t.l=Timer

This will return the number of 50ths of a second since startup or the
last call to ResetTimer.

EXAMPLE:

```
NPrint Timer
VWait
NPrint Timer
MouseWait
End
```

1.20 RIAmosFuncLib

Statement: ResetTimer

Mode : Amiga/Blitz
Syntax : ResetTimer

This will recent the CIA timer to 0.

EXAMPLE:

```
NPrint Timer
VWait
ResetTimer
NPrint Timer
MouseWait
End
```

1.21 RIAmosFuncLib

Function: Lisa

Mode : Amiga/Blitz
Syntax : chipver=Lisa

This will return the current Lisa chip version :

\$00 for OCS Denise
\$F7 for ECS Denise
\$F8 for AGA Lisa

EXAMPLE:

```
Select Lisa
Case 0
    NPrint "You have an OCS Machine!"
Case $F7
    NPrint "You have an ECS Machine!"
Case $F8
    NPrint "You have an AGA Machine!"
Case $F9
    NPrint "You have a AAA Machine?!" ; Maybe... :)
End Select
MouseWait
End
```

1.22 RIAmosFuncLib

Statement: Reboot

Mode : Amiga/Blitz
Syntax : Reboot

This will perform a cold reboot

EXAMPLE:

```
NPrint "Press mousebutton to reset.."
MouseWait
Reboot
```

1.23 RIAmosFuncLib

Function: FileSize

Mode : Amiga
Syntax : size.l=FileSize(filename\$)

This return the length (in bytes) of the file.

EXAMPLE:

```
NPrint "Startup is ",FileSize("S:startup-sequence")," bytes long!"
MouseWait
End
```

1.24 RIAmosFuncLib

Function: XOR

Mode : Amiga/Blitz
Syntax : x.l=XOR(x.l,y.l)

This will perform an Exclusive-Or operation between X and Y and put the result back into X

EXAMPLE:

```
x=XOR(%101,%100)
```

Will place %001 into X (%101 XOR %100 = %001)

1.25 RIAmosFuncLib

Function: Max/Min

Mode : Amiga/Blitz

```
Syntax : value=Max(first_var,second_var)
        value=Min(first_var,second_var)
```

This will compare both values and return either the Higher of the values (Max) or the Lower (Min). This currently supports INTEGERS only.

EXAMPLE:

```
NPrint Max(30,50)
NPrint Min(30,50)
MouseWait
End
```

1.26 RIAmosFuncLib

Function: KeyCode

```
Mode    : Amiga/Blitz
Syntax  : keycode=KeyCode
```

This will return the status of the keyboard in the form of a keycode. You will need to experiment to find out the desired keycode for a particular key. This merely peeks address \$bfec01 and returns the value found.

EXAMPLE:

```
NPrint KeyCode
MouseWait
End
```

1.27 RIAmosFuncLib

Statement/Function : CludgeShapes

```
Mode    : Amiga/Blitz
Syntax  : [success]=CludgeShapes(shape#,numshapes,address)
```

This allows the creation of shapes through INCBIN statements. It allocates chip memory for each shape and copies the data into this. It does the same as LoadShapes except it grabs shapes from memory.

EXAMPLE:

```
suc=BLoad("myshapes",0)
suc=CludgeShapes(0,50,Start(0))
MouseWait
End
```

1.28 RIAmosFuncLib

Statement/Function : CludgeSound

Mode : Amiga/Blitz

Syntax : [success]=CludgeSound(sound#,address)

This does the same for CludgeShapes but works on only 1 sound at a time
 NOTE: Looped sounds are not currently supported! The sound must be a valid 8SVX sample.

EXAMPLE:

```
suc=BLoad("mysound",0)
suc=CludgeSound(0,Start(0))
MouseWait
End
```

1.29 RIAmosFuncLib

Function : FindVolume

Mode : Amiga

Syntax : success=FindVolume(volumename\$)

This will look to see if the specified volume is present, and returns 0 if it is not or -1 if it is. If the volume is not present, this function will NOT bring up a Requester ("Please insert Volume...")
 The ":" should not be included in the volumename.

This is useful for waiting for diskswaps when you have a BlitzMode display

EXAMPLE:

```
<Blitzmode Statements>
QAMIGA
Repeat
  VWait
Until FindVolume("DISK2")
BLITZ
<More statements>
```

1.30 RIAmosFuncLib

Function : DeviceName\$

Mode : Amiga

Syntax : devname\$=DeviceName\$(volumename\$)

This will return the device name of the specified volume or "" if the volume was not found. The ":" may or may not be included.

EXAMPLE:

```
NPrint DeviceName$("WORK:")
```

1.31 RIAmosFuncLib

Function : BlitterDone

Mode : Amiga/Blitz

Syntax : status=BlitterDone

This checks to see if the Blitter has finished BLITting. -1=Yes, 0=No

EXAMPLE:

```
Repeat
Unti BlitterDone
```

1.32 RIAmosFuncLib

Statement : WaitBlitter

Mode : Amiga/Blitz

Syntax : WaitBlitter

This will halt program execution until the Blitter is ready for use.

EXAMPLE:

```
Blit 0,0,0
WaitBlitter
..
..
```

1.33 RIAmosFuncLib

Statement : BlitterNasty

Mode : Amiga/Blitz

Syntax : BlitterNasty

This will set the BlitterNasty hardware register bit, which means that the Blitter has complete priority over the CPU. This function returns the old status.

NOTE In order for this to be effective, place this command in a loop after a VWait.

1.34 RIAMosFuncLib

Function : FuncLibVersion

Mode : N/A

Syntax : N/A

This command does nothing (except return 0). Press HELP on the command name for your current version (v1.36 or higher only)

VERSION HISTORY

Version 0.9

~~~~~

Internal release. BLoad/BSave/Reserve/Erase only... (Blitz Statements)

Version 1.0

~~~~~

First public release. Many new commands... (Assembly)

Version 1.1

~~~~~

Bundled in RIBlitzlibsv3.1.lha on Aminet. Also published on BUM7  
Added a few extra commands

Version 1.2

~~~~~

Changed CacheOff to CachesOff. Now supports a bitmask for disabling any caches you want. CachesOn added - so you can turn them back on. Don't know why it wasn't in before - I guess it didn't work before...

Version 1.3

~~~~~

Fixed bug in CopyByte/CopyWord/CopyLong - using DBRA so only 65535 copies could be done. (Thanks Steve Mc)

Version 1.31

~~~~~

Fixed memory drain in FileSize (DosObject not freed)
Reported by Ott Aloe from 'The Farm' - Thanks Ott

Version 1.32

~~~~~

Added CD command to change current directory. (Request by Ott)

Version 1.33

~~~~~

Fixed bug I introduced in FileSize (was freeing DosObject before getting the length of file)

Version 1.34

~~~~~

Added single parameter option to Reserve (only length). Returns

---

bank number else -1.

Version 1.35

~~~~~

Added single parameter option to BLoad (only filename). Returns bank number else -1.

Added NOTE to BlitterNasty docs because copperlist would trash the bit every 50th.

Version 1.36

~~~~~

Fixed stupid bug in BLoad. Meant that FNSLoad/ILBMLoad would not work.

Added FuncLibVersion to display current lib version

## 1.35 RIAmosFuncLib: Command Index

Command index for library RIAmosFuncLib

Library Main

Number of commands: 32

|              |                |
|--------------|----------------|
| BlitterDone  | BlitterNasty   |
| BLoad        | BSave          |
| CludgeShapes | CludgeSound    |
| CopyByte     | CopyLong       |
| CopyWord     | DeviceName\$   |
| Erase        | EraseAll       |
| FileSize     | FillMem        |
| FindVolume   | FuncLibVersion |
| KeyCode      | Length         |
| Lisa         | MakeDir        |
| Max/Min      | MemFree        |
| NextBank     | PLoad          |
| Reboot       | Rename         |
| Reserve      | ResetTimer     |
| Start        | Timer          |
| WaitBlitter  | XOR            |

## 1.36 RIAnimLib

=====

RI ANIM Library V1.3 (C) 94/95

=====

Written By Stephen McNamara  
©94/95 Leading Edge Software

Command Index



This library enables the playback of both Anim5 and Anim7 format animations. It allows you to playback animations at any co-ordinate in a bitmap and supports different palettes for frames of the animation. It also allows you to playback animations from FAST ram, thus you can now play massive animations that can only fit in FAST ram.

When playing back animations you must make sure that your display is double-buffered. Please refer to the Blitz manual for information about how anims can be played back properly - or look at the example program included with this file.

There has been some extensive testing of this library. The result of this is that all none problems with it have been fixed. Bug fixes include loop frame anims not looping properly and anims with separate palettes per frame now play correctly.

Command list:

```
[suc]=RIAnimInit(address,bitmap#,palette# [,xy_offset][[,x,y]])
[suc]=RINextAnimFrame bitmap#
AnimLoop
```

New commands:

```
num.w=RIAnimFrameCount
```

Updated commands:

```
RIAnimInit now accepts offset as x,y coordinates.
```

## 1.37 RIAnimLib

Statement/Function: RIAnimInit

Modes : Amiga/Blitz

Syntax: [suc]=RIAnimInit(address,bitmap#,palette# [,xy\_offset][[,x,y]])

This command attempts to take an animation held in memory (CHIP or FAST) and identify it as a supported animation format. If it identifies it okay it will set up the animation by unpacking frame 1 of the anim onto the specified bitmap and copying the palette to the specified palette object. You must ensure that the bitmap is big and deep enough to actually hold the animation. At the moment there is no checking of the bitmap size. The palette object you give is automatically resized to the size of the palette in the animation.

The optional parameter allows you to play an animation at an offset into a bitmap. This command has been extended so that you can specific the optional offset into the bitmap as either a byte value, or a x,y coordinate. Given in offset form, you should use the following formula to calculate the value to use:

$$\text{offset} = (X/8) + (Y * (\text{pixel\_width}/8))$$

where: X and Y are your co-ordinates

pixel\_width is the width of your bitmap.

Offset form is kept for compatibility with older versions of this library. You should ensure that your animation will never go off screen when using the offset parameter(s). Incorrect placement could cause a crash of your machine.

If used as a function, this command returns true for a successful initialise or false for failure.

### 1.38 RIAnimLib

Statement/Function: RINextAnimFrame

---

Modes : Amiga/Blitz

Syntax: [suc=]RINextAnimFrame bitmap#

This command attempts to unpack the next frame of a previously initialised animation onto the specified bitmap. It returns true or false to say whether it succeeded or not.

### 1.39 RIAnimLib

Statement: AnimLoop

---

Modes : Amiga/Blitz

Syntax: AnimLoop ON|OFF

This command allows you to control the looping mode of the animation. With animloop off, playback of an animation will stop at the last frame of it. Any attempt to draw another frame will fail. With it on, though, the animation will loop around.

Note: you must ensure that your animation has loop frames at the end of it if you want to loop the animation around. The reverse of this is true for animloop off – the animation must not have loop frames if you don't want it to loop around. If you select animloop off but have looping frames in your anim then the animation will end by displaying a copy of frame 2 of the animation.

### 1.40 RIAnimLib

Function: RIAnimFrameCount

---

Modes : Amiga/Blitz

Syntax: numframes=RIAnimFrameCount

This command allows you to count the number of frames in the currently

---

initialised animation.

## 1.41 RIAnimLib: Command Index

Command index for library RIAnimLib

Library Main

Number of commands: 4

AnimLoop  
RIAnimFrameCount  
RIAnimInit  
RINextAnimFrame

## 1.42 RIAppLib

```
-----
=====
                        RI App Library V1.4 (C)1994
=====
-----
```

Written By Steven Matty  
©1994 Leading Edge Software

Command Index

!!!! IMPORTANT !!!!!

```
*****
*   For New Features See Bottom Of Text   *
*   ~~~~~                                *
*****
```

This small library provides quick and easy to use commands for accessing AppWindows, AppIcons and AppMenus.

An AppWindow is a window on the Workbench screen which will allow you to drag file(s) from into it, instead of ploughing through file-requesters.

An AppMenu adds a menu item to the "Tools" menu of the Workbench. It is normally used for when the program is 'sleeping' and the user wishes to wake it up. In addition, if any files are selected and the menu item is selected these are passed to the program.

An AppIcon is just like a normal file icon on the Workbench except it allows you to drop file(s) onto it, or to double-click it to wake up the program.

These features require at Workbench v2.0 or higher.

Command List:

```

AppEvent ()
AppEventCode ()
AppEventID ()
AddAppWindow ()
AddAppIcon ()
AddAppMenu ()
DelAppWindow ()
DelAppIcon ()
DelAppMenu ()
NextAppFile ()
AppFile ()
AppNumFiles ()

```

## 1.43 RIAppLib

Function : AppEvent

---

Modes : Amiga

Syntax : status=AppEvent

This command checks to see whether or not an 'App'Event (e.g. File dropped onto an AppIcon or Menu Item selected) has occurred.

This function will return 0 if no event has occurred, else \$80000 if :

```

  An AppMenu was selected
    An AppIcon was double-clicked
    A File Was Dragged Into An AppWindow
    A File Was Dragged Onto An AppIcon

```

\*\*\*\*\*

## 1.44 function

\* NOTE \* : This function no longer returns the number of files  
 \*\*\*\*\* selected. \$80000 is returned instead of -1.  
 See AppNumFiles().

e.g.

```

Repeat
  VWait
  appev.l=AppEvent      ; Has something happened
Until appev
If appev=$80000
  NPrint "An AppEvent Occurred! !"
EndIf

```

---

## 1.45 RIAppLib

Function : AddAppWindow

---

Modes : Amiga

Syntax : success=AddAppWindow(windownumber)

This command attempts to make the window specified by 'windownumber' to become an AppWindow. -1 means success, 0 means failure. There is a limit of 16 AppWindows open at any one time.

## 1.46 RIAppLib

Function : AddAppIcon

---

Modes : Amiga

Syntax : success=AddAppIcon(id,text\$,iconname\$)

This command attempts to place an AppIcon onto the Workbench desktop. ID is a unique identification number. Text\$ is text to display underneath the AppIcon and Iconname\$ is the name of the file to use the Icon imagery. -1 means success, 0 means failure. There is a limit of 16 AppIcons.  
e.g.

```
suc=AddAppIcon(0,"QuickFormat","SYS:System/Format")
If suc=0 Then End
```

## 1.47 RIAppLib

Function : AddAppMenu

---

Modes : Amiga

Syntax : success=AddAppMenu(id,text\$)

This command tries to add 'text\$' to the Tools menu of Workbench. ID is a unique identification number. Returns -1 for success, 0 for failure. There is a limit of 16 AppMenu items.

e.g.

```
suc=AddAppMenu(0,"Wakey Wakey")
If suc=0 Then End
```

## 1.48 RIAppLib

---

Function : AppEventCode

---

Modes : Amiga

Syntax : apptype=AppEventCode

This function will return the type of App object which caused the event.

0=No Event Occurred

1=AppWindow

2=AppIcon

3=AppMenu

e.g.

```
Repeat
```

```
  VWait
```

```
  appev.l=AppEvent      ; Has something happened
```

```
Until appev
```

```
Select AppEventCode
```

```
  Case 1
```

```
    NPrint "An AppWindow caused this!"
```

```
  Case 2
```

```
    NPrint "An AppIcon caused this!"
```

```
  Case 3
```

```
    NPrint "An AppMenu caused this!"
```

```
End Select
```

## 1.49 RIAppLib

Function : AppEventID

---

Modes : Amiga

Syntax : idnumber=AppEventID

This will return the object ID number which caused the AppEvent.

This ID number refers to the one which was used in

AddAppIcon/AddAppWindow/AddAppWindow.

-1 means that no AppEvent occurred.

## 1.50 RIAppLib

Function : NextAppFile

---

Modes : Amiga

Syntax : filename\$=NextAppFile

This will return the full path and filename for the file/drawer/volume which was selected when an AppEvent occurred. If a directory was selected then a '/' is appended to file name. If a volume (e.g. a Disk) was

---

selected then a ":" is appended.

An empty string means nothing was selected.

```
e.g.
; AppStuff initialized
Repeat
  VWait
  appev.l=AppEvent
Until appev=$80000      ; repeat until some files are selected.
numfiles.l=AppNumFiles
For n=1 To numfiles
  NPrint "File number "+str$(n)+" is "+NextAppFile
Next n
```

## 1.51 RIAppLib

Function : AppNumFiles

---

Modes : Amiga

Syntax : numfiles=AppNumFiles

This will return the number of files selected when the AppEvent occurred.

## 1.52 RIAppLib

Function : AppFile

---

Modes : Amiga

Syntax : filename\$=AppFile(file#)

This will return the full path and filename for the file/drawer/volume which was selected when an AppEvent occurred. The file# parameter specifies which file to return. If a directory was selected then a '/' is appended to file name. If a volume (e.g. a Disk) was selected then a ":" is appended.

An empty string means nothing was selected.

```
e.g.
; AppStuff initialized
Repeat
  VWait
  appev.l=AppEvent
Until appev=$80000      ; repeat until some files are selected.
numfiles.l=AppNumFiles
For n=1 To numfiles
  NPrint "File number "+str$(n)+" is "+AppFile(n)
Next n
```

---

## 1.53 RIAppLib

Function: DelAppWindow

Modes : Amiga

Syntax : success=DelAppWindow[(number)]

These commands will remove the AppWindow from the system and free up the associated message port.

## 1.54 RIAppLib

Function: DelAppIcon

Modes : Amiga

Syntax : success=DelAppIcon[(id)]

These commands will remove the AppIcon from the system and free up the associated message port.

## 1.55 RIAppLib

Function: DelAppMenu

Modes : Amiga

Syntax : success=DelAppMenu[(id)]

These commands will remove the AppMenu from the system and free up the associated message port.

### VERSION HISTORY

Version 1.0

~~~~~

First release using old commands

Version 1.1

~~~~~

Re-written from scratch now handles multiple files and is structured more like the standard Intuition event handling.

Version 1.2

~~~~~

Fixed memory drain. There still seems to be some loss somewhere
Need to add WaitAppEvent which waits for AppEvents + Normal events
instead of a Repeat..VWait..Until loop.

Version 1.3

~~~~~

Re-wrote to allocate memory on run-time. Saved approx 1k off library size.

Version 1.4

~~~~~

Changed AppEvent to return 0 for no event or \$80000 for AppEvent. No longer returns number of files in AppEvent. Added AppNumFiles for this. Also changed Blitz Windowslib to allow WaitEvent to capture AppEvents.

1.56 RIAppLib: Command Index

Command index for library RIAppLib

Library Main

Number of commands: 13

AddAppIcon

AddAppMenu

AddAppWindow

AppEvent

AppEventCode

AppEventID

AppFile

AppNumFiles

DelAppIcon

DelAppMenu

DelAppWindow

NextAppFile

This function no longer returns the number of files

1.57 RICommoditiesLib

 ==== RI Commodities Library V1.2 (C)1994 =====

Written By Steven Matty
 ©1994 Leading Edge Software

Command Index

Introduction

=====

This library allows the easy use of Commodities. It requires Kickstart 2 or higher.

1.58 RICommoditiesLib

Function : MakeCommodity

Modes : Amiga

Syntax : success=MakeCommodity(name\$,title\$,description\$)

This command attempts to add your Commodity to the list of commodities.
A return value of -1 indicates success, 0 means failure. (not enough memory)

name\$ refers to the name of the Commodity and it should be unique. This is the name that appears when running the Commodity Exchange program.

title\$ is the title of your program, e.g. "My Screen Blanker".

description\$ is a brief description of your program.

The Commodity Exchange program will then have 'name\$' in its list of Commodities and when a user clicks on your commodity, it will display the title\$ and description\$.

1.59 RICommoditiesLib

Function : SetHotKey

Modes : Amiga

Syntax : success=SetHotKey(hotkey#,hotkeydescription\$)

This will add a hotkey event to your commodity so that after a hotkey has been pressed you can find out which one.

e.g. success=SetHotKey(0,"lalt lshift a")

1.60 RICommoditiesLib

Function : HotKeyHit

Modes : Amiga

Syntax : hitkeynum=HotKeyHit

This will return the number of the hot key which has been hit since the last 'CommodityEvent' was called, or -1 if no such hotkey has been activated.

1.61 RICommoditiesLib

Function : CommodityEvent

Modes : Amiga

Syntax : anyevent=CommodityEvent

This looks to see if either

- a) A hotkey has been pressed
- b) A message from Exchange has been received

and returns -1 if such an event occurred, of 0 if nothing has yet happened. This should be inside a Repeat-Until loop, e.g.

```
Repeat
  VWait
  ev.l=Event
  ce.l=CommodityEvent
  hk.l=HotKeyHit      ; This must be used after CommodityEvent
Until ev or ce or hk
```

1.62 RICommoditiesLib

Statement : SetStatus

Modes : Amiga

Syntax : SetStatus on|off

This sets the status of your Commodity to either Active (on) or Inactive (off) - this can be seen by running the Commodities Exchange program.

1.63 RICommoditiesLib

Function : ExchangeMessage

Modes : Amiga

Syntax : messnum.l=ExchangeMessage

This looks to see if the Commodities Exchange has issued you with a message, e.g. Hide Interface, Show Interface. It returns the message ID of the incoming message or 0 for no message.

1.64 RICommoditiesLib

Functions: CxAppear

Modes : Amiga

This is used in conjunction with ExchangeMessage, ie

```
em.l=ExchangeMessage
Select em
```

```
Case CxAppear
  Gosub _appear
Case CxDisAppear
  Gosub _disappear
End Select
```

The functions merely return the ID value associated with that particular Commodities Exchange message.

1.65 RICommoditiesLib

Functions: CxDisAppear

Modes : Amiga

This is used in conjunction with ExchangeMessage, see CxAppear for more information.

1.66 RICommoditiesLib

Functions: CxEnable

Modes : Amiga

This is used in conjunction with ExchangeMessage, see CxAppear for more information.

1.67 RICommoditiesLib

Functions: CxDisable

Modes : Amiga

This is used in conjunction with ExchangeMessage, see CxAppear for more information.

1.68 RICommoditiesLib

Functions: CxKill

Modes : Amiga

This is used in conjunction with ExchangeMessage, see CxAppear for more

information.

1.69 RICommoditiesLib

Functions: CxChangeList

Modes : Amiga

This is used in conjunction with ExchangeMessage, see CxAppear for more information.

1.70 RICommoditiesLib

Functions: CxUnique

Modes : Amiga

This is used in conjunction with ExchangeMessage, see CxAppear for more information.

1.71 RICommoditiesLib

Functions: ExchangeAppear

Modes : Amiga

To be used in conjunction with ExchangeMessage, ie

```
em.l=ExchangeMessage
If em
  If ExchangeAppear then Gosub _appear
  If ExchangeDisAppear then Gosub _disappear
EndIf
```

This is intended as an alternative way of acting upon Exchange Messages.

1.72 RICommoditiesLib

Functions: ExchangeDisAppear

Modes : Amiga

To be used in conjunction with ExchangeMessage, see ExchangeAppear for more information on usage.

1.73 RICommoditiesLib

Functions: ExchangeEnable

Modes : Amiga

To be used in conjunction with ExchangeMessage, see ExchangeAppear for more information on usage.

1.74 RICommoditiesLib

Functions: ExchangeDisable

Modes : Amiga

To be used in conjunction with ExchangeMessage, see ExchangeAppear for more information on usage.

1.75 RICommoditiesLib

Functions: ExchangeKill

Modes : Amiga

To be used in conjunction with ExchangeMessage, see ExchangeAppear for more information on usage.

1.76 RICommoditiesLib

Functions: ExchangeChangeList

Modes : Amiga

To be used in conjunction with ExchangeMessage, see ExchangeAppear for more information on usage.

1.77 RICommoditiesLib

Functions: ExchangeUnique

Modes : Amiga

To be used in conjunction with ExchangeMessage, see ExchangeAppear for more information on usage.

1.78 RICommoditiesLib: Command Index

Command index for library RICommoditiesLib

Library Main

Number of commands: 20

CommodityEvent	CxAppear
CxChangeList	CxDisable
CxDisAppear	CxEnable
CxKill	CxUnique
ExchangeAppear	ExchangeChangeList
ExchangeDisable	ExchangeDisAppear
ExchangeEnable	ExchangeKill
ExchangeMessage	ExchangeUnique
HotKeyHit	MakeCommodity
SetHotKey	SetStatus

1.79 RICompactDisklib

RI Compact Disc Library V1.3 (C) 94/95

Written By Stephen McNamara & Steven Matty
©94/95 Leading Edge Software

Command Index

Command list:

```

OpenCD
CloseCD
CDDoor On/Off
CDPlayTrack track#,numtracks
CDReadTOC
CDStatus
CDStop
CDVolume volume,lengthhofffade
CDNumTracks
CDFirstTrack
CDLastTrack

```

```
CDTrackLength track#
CDFlush
CDPause On/Off
CDRewind
CDFastForward
CDNormalSpeed
CDSpeed mode
CDUpdateInfo
CDTrackMins [offset]
CDTrackSecs [offset]
CDTrackPlaying
```

1.80 RICompactDisklib

Statement/Function: OpenCD

Modes : Amiga/Blitz

Syntax: [suc=]OpenCD

Attempts to open the cd.device for use by the library. If used as a function it returns true or false to say whether the device was opened successfully. You must use this command before you attempt to use any of the other commands in this library.

1.81 RICompactDisklib

Statement/Function: CloseCD

Modes : Amiga/Blitz

Syntax: [suc=]CloseCD

You must close the cd.device before your program ends. Close the device by using this command.

1.82 RICompactDisklib

Statement: CDDoor

Modes : Amiga/Blitz

Syntax: CDDoor On/Off

Controls the status of the cd tray on your cd drive. Giving a value of On (non-zero) with this command will cause the tray to open, Off will cause the tray to close

1.83 RICompactDisklib

Statement/Function: CDPlayTrack

Modes : Amiga/Blitz

Syntax: CDPlayTrack track#,numtracks

Use this command to make the cd drive play one or more audio tracks on the currently inserted compact disc. Tracks are numbered from one but you should make sure that track one is an audio track, since CD-ROMs store program data on track one. The numtracks argument allows you to play more than one track without extra commands. When the cd player reaches the end of the track it will move straight onto the next track automatically if you specified to play more than one.

This command can return a value to you if desired. ~A return value of true means that the command succeeded, else false means failure.

1.84 RICompactDisklib

Statement/Function: CDReadTOC

Modes : Amiga/Blitz

Syntax: [suc=]CDReadTOC

Read the table of contents off the current CD. This must be done before you attempt to obtain information about tracks/try to play a track. This command can optionally return true or false to say whether or not it succeeded.

1.85 RICompactDisklib

Function: CDStatus

Modes : Amiga/Blitz

Syntax: status=CDStatus

Returns the status information for the cd.device. This data includes the current status of the cd drive, and whether or not there is a compact disc inserted into it. The return value is a binary number, with the following bits being of interest:

Name	Bit number	Meaning
CDSTSB_CLOSED	0	Drive door is closed
CDSTSB_DISK	1	A disk has been detected
CDSTSB_SPIN	2	Disk is spinning (motor is on)
CDSTSB_TOC	3	Table of contents read. Disk is valid.
CDSTSB_CDROM	4	Track 1 contains CD-ROM data
CDSTSB_PLAYING	5	Audio is playing
CDSTSB_PAUSED	6	Pause mode (pauses on play command)

CDSTSB_SEARCH 7 Search mode (Fast Forward/Fast Reverse)
CDSTSB_DIRECTION 8 Search direction (0 = Forward, 1 = Reverse)

It is possible to get more than one bit set at a time in the variable so you should not do straight comparisons with the return value. Use the & operator to test for different statuses, e.g.

```
If (CDStatus & %1) then NPrint "CD tray is closed!"
```

1.86 RICompactDisklib

Statement: CDStop

Modes : Amiga/Blitz

Syntax: CDStop

Causes the cd player to stop playing the current track.

1.87 RICompactDisklib

Statement/Function: CDVolume

Modes : Amiga/Blitz

Syntax: CDVolume volume,lengthoffade

Gotta find out :)

1.88 RICompactDisklib

Function: CDNumTracks

Modes : Amiga/Blitz

Syntax: num=CDNumTracks

Get the total number of tracks on the currently inserted compact disc. Should be used only after the table of contents has been read using CDReadTOC.

1.89 RICompactDisklib

Function: CDFirstTrack

Modes : Amiga/Blitz

Syntax: num=CDFirstTrack

Returns the first track on the disc available for playing using the CDPlayTrack command.

1.90 RICompactDisklib

Function: CDLastTrack

Modes : Amiga/Blitz

Syntax: num=CDLastTrack

Returns the last track on the disc available for playing using the CDPlayTrack command.

1.91 RICompactDisklib

Function: CDTrackLength

Modes : Amiga/Blitz

Syntax: l=CDTrackLength(track#)

Returns the length in seconds of the selected track. The track# should be checked to make sure that it exists on the compact disc.

1.92 RICompactDisklib

Statement: CDFlush

Modes : Amiga/Blitz

Syntax: CDFlush

Gotta find out :)

1.93 RICompactDisklib

Statement: CDPause

Modes : Amiga/Blitz

Syntax: CDPause On/Off

This command is used to either make the cd player pause on the currently playing track, or restart after being paused. If you set pause on whilst

a track is not playing, and then attempt to play a track the cd player will go straight into pause mode.

1.94 RICompactDisklib

Statement: CDRewind

Modes : Amiga/Blitz

Syntax: CDRewind

Set the cd player into rewind mode.

1.95 RICompactDisklib

Statement: CDFastForward

Modes : Amiga/Blitz

Syntax: CDFastForward

Set the cd player into fastforward mode.

1.96 RICompactDisklib

Statement: CDNormalSpeed

Modes : Amiga/Blitz

Syntax: CDNormalSpeed

Restore the cd player to normal playing speed.

1.97 RICompactDisklib

Statement: CDSpeed

Modes : Amiga/Blitz

Syntax: CDSpeed speed

Set the cd player speed directly using the value in the speed parameter.

1.98 RICompactDisklib

Statement: CDUpdateInfo

Modes : Amiga/Blitz

Syntax: CDUpdateInfo

This command is used to update the current track information whilst a compact disc is actually playing. After it has been called, the commands CDTrackMins, CDTrackSecs and CDTrackPlaying will return information about the current track.

1.99 RICompactDisklib

Function: CDTrackMins

Modes : Amiga/Blitz

Syntax: num=CDTrackMins[(offset)]

Returns the current time from start of the track for the currently playing cd track. The optional parameter offset can take the value of 0 or 1. IF offset=1 is passed, the time returned will reflect the playing time from the start of the compact disc, rather than from the start of the track.

1.100 RICompactDisklib

Function: CDTrackSecs

Modes : Amiga/Blitz

Syntax: num=CDTrackSecs[(offset)]

Returns the current time from start of the track for the currently playing cd track. The optional parameter offset can take the value of 0 or 1. IF offset=1 is passed, the time returned will reflect the playing time from the start of the compact disc, rather than from the start of the track.

1.101 RICompactDisklib

Function: CDTrackPlaying

Modes : Amiga/Blitz

Syntax: num=CDTrackPlaying

Returns the number of the currently playing cd track.

1.102 RICompactDisklib: Command Index

Command index for library RICompactDisklib

Library Main

Number of commands: 22

CDDoor	CDFastForward
CDFirstTrack	CDFlush
CDLastTrack	CDNormalSpeed
CDNumTracks	CDPause
CDPlayTrack	CDReadTOC
CDRewind	CDSpeed
CDStatus	CDStop
CDTrackLength	CDTrackMins
CDTrackPlaying	CDTrackSecs
CDUpdateInfo	CDVolume
CloseCD	OpenCD

1.103 RICopperFXLib

 ---- RI CopperFX Library V1.3 (C)94/95 ----

Written By Stephen McNamara
 ©94/95 Leading Edge Software

Command Index

This is a library of commands that assist in setting it custom copperlists for your blitz mode games. It interfaces with the display library and so can only be used in conjunction with CopList objects. The commands in this library insert copper instructions into the custom space in a Coplist object - you must therefore have custom space in your CopList if you want to use them.

Custom space is given to the coplist object during initialisation - it is the last parameter of the InitCopList command.

AGA warning: Three of the commands in this library are AGA only (A1200/A400/CD32). They should not be used on non-AGA machines.

Command list:

```
CopperReset coplist#,startline[,ccoffset]
DoColSplit cols_adr,numlines,colour_register
RedoColSplit cols_adr,numlines,ccoffset
CopperEnd
CopperInfoBlock
CopperCommand copins1,copins2
CopperMove register,value
CopperWait x,y
```

```
CopperSkip x,y
GetCCOffset
CopperAGACol
```

1.104 RICopperFXLib

Statement: CopperReset

Modes : Amiga/Blitz

Syntax: CopperReset coplist#,startline[,ccoffset]

This command sets up the copper library to work on a certain coplist object. It must be used before you can use any of the commands in this library. coplist# is the number of the coplist you want to effect, startline is the vertical start position to store (for the commands DoColSplit and RedoColSplit). The optional ccoffset parameter allows you to specify an offset into the custom area of the copperlist as a start position for the library. The ccoffset parameter is given in the form of the number of copper instructions from the start of the custom area.

1.105 RICopperFXLib

Statement/Function: DoColSplit

Modes : Amiga/Blitz

Syntax: DoColSplit cols_adr,numlines,colour_register

This command is AGA only at the moment. What it does is produce a nice aga fade going down the screen. The colours to fade from/to are given in the form of 6 longwords, the address of which is pointed to by cols_adr. The following structure could be used to store the colours:

```
Newtype.colourinfo
    r1.l
    g1.l
    b1.l
    r2.l
    g2.l
    b2.l
End Newtype
```

You would then assign a variable to be of type .colourinfo, and set the colour values in it. It would then be passed to the DoColSplit command using the & operator to pass the address of the variable:

```
Deftype.colourinfo cols
cols\r1=0,0,0,255,255,255
DoColSplit &cols,256,0
```

The split will start at the current y counter value (set by CopperReset)

and will go on for numlines vertical lines. It will effect the colour register supplied, which maybe any aga register. The Y counter will be moved down to the end of the colour split after this command has finished, meaning that you can do multiple splits one after the other easily.

1.106 RlCopperFXLib

Statement/Function: RedoColSplit

Modes : Amiga/Blitz

Syntax: RedoColSplit cols_adr,numlines,cc_offset

This command must be used after the DoColSplit. What it allows you to do is quickly update the colour information set up by the DoColSplit command without rebuilding the whole colour split. The parameters are the same except that cc_offset replaces the colour register parameter. For this command to work, you must start it at the same custom address as the DoColSplit was started at. This parameter is for you to pass the address to start at too the library. An easy way to do this is to store the current cc_offset BEFORE calling DoColSplit:

```
pos.w=GetCCOffset
DoColSplit &cols,256,0
;
; Change colours values in cols variable here!
;
RedoColSplit &cols,256,pos
```

1.107 RlCopperFXLib

Statement/Function: CopperEnd

Modes : Amiga/Blitz

Syntax: CopperEnd

This command is used to tidy up the copperlist after you have finished adding custom commands. It is necessary if you're ever executing any WAIT commands (including DoColSplit) after vertical position 255. After this position extra code is required to make sure the CopList display terminated properly. If you don't use it after going over 255 vertically, you will get screen corruption in your display.

1.108 RlCopperFXLib

Statement/Function: CopperInfoBlock

Modes : Amiga/Blitz

Syntax: `ad.l=CopperInfoBlock`

Returns the address of the internal library information. This command is primarily for debugging by me. The data held within the structure is private, and no assumptions should be made about it by the user of this library.

1.109 RlCopperFXLib

Statement: `CopperCommand`

Modes : `Amiga/Blitz`

Syntax: `CopperCommand copins1,copins2`

This command allows you to manually insert copper instructions into the current set coplist object. The copper instruction is given as two words which are stored straight into the coplist.

1.110 RlCopperFXLib

Statement: `CopperMove`

Modes : `Amiga/Blitz`

Syntax: `CopperMove register,value`

This command allows you to insert a move instruction into the copperlist. The first parameter should be a hardware register address (given as an offset from \$0), the second should be a value to move into it. The value parameter must be a word.

1.111 RlCopperFXLib

Statement: `CopperWait`

Modes : `Amiga/Blitz`

Syntax: `CopperWait x,y`

This command allows you to insert a wait instructino into the copperlist. The horizontal and vertical position to wait for are given by x,y. The copper has a horizontal resolution though of 4 low resolution pixels, thus your x coordinate will be rounded down to the nearest multiple of 4.

1.112 RICopperFXLib

Statement: CopperSkip

Modes : Amiga/Blitz

Syntax: CopperSkip x,y

This command allows you to insert a wait instructino into the copperlist. The horizontal and vertical position to wait for are given by x,y. The copper has a horizontal resolution though of 4 low resolution pixels, thus your x coordinate will be rounded down to the nearest multiple of 4.

1.113 RICopperFXLib

Function: GetCCOffset

Modes : Amiga/Blitz

Syntax: offset=GetCCOffset

Gets the current custom copper instruction offset. Used if you want to keep track of how far through your custom area you are, or in conjunction with Do/RedoColSplit. The return value is the number of instructions from the start of the custom area.

1.114 RICopperFXLib

Statement: CopperAGACol

Modes : Amiga/Blitz

Syntax: CopperAGACol register,r,g,b

Setting AGA colours is a pain in the arse. This instruction though allows you to do it easily in your copperlist by doing all the extra work for you. Just supply the colour register number to move the data into and the r,g,b values. This command generates 4 copper instructions inside your copperlist.

1.115 RICopperFXLib: Command Index

Command index for library RICopperFXLib

Library Main

Number of commands: 11

CopperAGACol
CopperEnd

CopperCommand
CopperInfoBlock

CopperMove
 CopperSkip
 DoColSplit
 RedoColSplit

CopperReset
 CopperWait
 GetCCOffset

1.116 RIDebugLib

```
=====
                        RI Debug Library V1.21 (C)1994/5
=====
```

Written By Stephen McNamara
 ©1994/5 Leading Edge Software

Command Index

This library is an extension for the Blitz Basic runtime error debugger by Leading Edge Software. It allows your program to give the debugger a set of simple instructions that are invaluable whilst debugging a program. They can only be used in conjunction with version 1.9+ of Blitz Basic 2, and the updated Acid library debug.obj.

You should note that these commands can *ONLY* be used in amiga mode since they require the debugger to immediately respond to them. When in Blitz mode, multitasking is disabled so the debugger is unable to react to the commands. When compiling, Blitz will tell you if you try and use the commands in Blitz mode.

Additional commands in this library require the related update of the debugger. Currently this libraries version number is 1.21, you should have a debugger version greater than or equal to this number.

A note about variable tracing

Variable tracing is only performed whilst the debugger is either single stepping a blitz program, or TRACING a program. When a program is running on its own, no update of any windows in the debugger is performed.

Command list:

```
AddvarTrace variable,variable$,display_mode
DelVarTrace variable$
VarTraceWindow
DisAsmWindow
```

New commands:

```
CopperTrace address[,offset]
```

New commands (V1.21):

```
ProcControl On/OFF
```

1.117 RIDebugLib

Statement : AddVarTrace

Modes : Amiga

Syntax : AddVarTrace var,variable\$,display_mode

This command adds a variable trace to the debuggers list of traces. The parameter 'var' is the actual variable to add to the list, variable\$ is the name which will be printed in the variable window in the debugger (usually the same as the variable name) and display_mode is the preferred output mode for the variables value.

The string variable\$ will be displayed inside the variable trace window. This will normally be the name of your variable, but on occasion you might want some extra info with the name. In these cases, you can make the variable\$ anything you like, for example "a (counter)" means that we're tracing variable a but we want to remember that is being used as a counter inside the program.

The output mode can take the following values, depending of course on the type of variable:

Bytes/Words/Longs:	0=nocare (default output will be selected) 1=decimal 2=hexadecimal 3=binary
Quicks/Floats:	0=nocare 1=decimal
Strings:	0=nocare (defaults to no length/maxlen data) 1=no length/maxlen data 2=length/maxlen data displayed

The command will automatically work out the 'type' of your variable and ensure that the proper output mode is selected.

You should note that you can add the same variable more than once if you like. This will be useful if you want to display a variables value in more than output mode. For example, you could display the byte sized variable MYVAR in both decimal and hexadecimal by 'adding' it twice.

1.118 RIDebugLib

Statement : DelVarTrace

Modes : Amiga

Syntax : DelVarTrace variable\$

This command instructs the debugger to remove a variable, identified by the string variable\$, from its trace list. The debugger will look for the name variable\$ and delete *ALL* occurrences of this name from the list. If you

added the variable trace with a different name from the actual name of the variable, you must ensure that the variable\$ matchs that which you used to add the variable.

1.119 RIDEbugLib

Statement : VarTraceWindow

Modes : Amiga

Syntax : VarTraceWindow

This command instructs the debugger to open its variable trace window. This can save the bother of going to the debugger separately and opening the window yourself.

1.120 RIDEbugLib

Statement : DisAsmWindow

Modes : Amiga

Syntax : DisAsmWindow

This command instructs the debugger to open its disassembly window. The disassembly window will open at the address of the command following DisAsmWindow. This can be helpful in cases like statements/functions that are totally assembly since you cannot evaluate the address of a label thats inside a statement/function.

1.121 RIDEbugLib

Statement : CopperTrace

Modes : Amiga

Syntax : CopperTrace address[,offset]

This command instructs the debugger to open its copper window. If the offset parameter is passed with the command, the library assumes that 'address' points to a coplist object (e.g. address=addr coplist(0)), it then adds the offset and takes the longword at that address as the start position for the window. Thus, if you wanted to open the copper window right at the start of coplist 0 you'd do:

```
CopperTrace Addr Coplist(0),4
```

See the coplist object in the debugger for more information about offsets.

1.122 RIDebugLib

Statement : ProcControl

Modes : Amiga

Syntax : ProcControl On/Off

This command allows you to switch the debuggers procedure control on or off. If on, the debugger will not step/trace inside of statements and functions. Instead it will execute them as single commands.

This command is actually the same as toggling the gadget on the debugger screen.

1.123 RIDebugLib: Command Index

Command index for library RIDebugLib

Library Main

Number of commands: 6

AddVarTrace
CopperTrace
DelVarTrace
DisAsmWindow
ProcControl
VarTraceWindow

1.124 RIEncryptLib

==== RI Encrypt Library V1.2 (C)1994 =====

Written By Stephen McNamara
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Command Index

Commands in the library:

```
Encrypt memadr,len[,wheel1,wheel2,wheel3]
value.w=GetWheel(n)
Decrypt memadr,len,wheel1,wheel2,wheel3
```

1.125 RIEncryptLib

Statement: Encrypt

Modes : Amiga/Blitz

Syntax: Encrypt memadr,len[,wheel1,wheel2,wheel3]

This will encrypt a block of memory starting at the address and running through to addresslength-1. The optional wheel parameters allow you to specify the start positions of the three wheels. If you leave these out then the wheels' start positions will be randomised.

1.126 RIEncryptLib

Function: GetWheel

Modes : Amiga/Blitz

Syntax: value=GetWheel(n)

This will tell you the position that wheel n stopped at after encrypting a file. n can range from 1 to 3 - YOU MUST REMEMBER THESE POSITIONS IF YOU WANT TO DECRYPT THE FILE (at the moment at least).

1.127 RIEncryptLib

Statement: Decrypt

Modes : Amiga/Blitz

Syntax: Decrypt memadr,len,wheel1,wheel2,wheel3

Same Encrypt except that it does the opposite and the wheel positions ARE NOT OPTIONAL. The positions should be the ones you wrote down after encrypting the file.

>> END

1.128 RIEncryptLib: Command Index

Command index for library RIEncryptLib

Library Main

Number of commands: 3

Decrypt
Encrypt
GetWheel

1.129 RIFNSLib

```
-----  
====                RI FNS Library V1.0 (C)1994/5                =====  
-----
```

Written By Stephen McNamara
©1994 Leading Edge Software

Command Index

This Blitz2 library prints proportional fonts in either Amiga or Blitz mode. It uses my own (rather primitive) font file format, details of which can be found at the end of this text file. Fonts can be upto 64 pixels wide and any height (although the font editor is limited to 64 pixels at the present moment). Fonts can be output in upto 256 colours (AGA!) and in the following ways: bold, centred, underlined, right-aligned or just standard left-aligned.

Note: a default font (PERSONAL.8) is built into this library and can be used by simply using font number 0. You do not have to install this font, it is automatically available for your use. A second point is to make is that the library is set up with a clipping rectangle of 0,0 to 0,0. Thus you have to use either FNSClip, FNSClipOutput or FNSOutput (with the optional clip parameter) to set the clipping rectangle before you try to print anything.

Please feel free to criticise (or praise!) this library, send me anything you want to say about it at:

SIS3149@SIS.PORT.AC.UK

These are all the FNS library commands:

- InstallFNS
- RemoveFNS
- FNSClip
- FNSClipOutput
- FNSSetTab
- FNSInk
- FNSOrigin
- FNSOutput
- FNSPrint
- FNSHeight
- FNSLength
- FNSLoad
- FNSSlot
- FNSUnderline
- FNSVersion
- FNSWidth
- FNSPrefs
- FNSUnload

Note: All return values will be words except when using InstallFNS and FNSVersion.

Control Codes =====

The FNS library now supports an additional control code for a return character (Ascii 10). You can now print, using this control code, multiple lines of text in one go. If you have special print options on, for example centering, then separate lines of text will automatically be centered below each other.

Example usage:

```
a$="Hello to all you people"+chr$(10)+"out there!"
FNSPrefs %1,1
FNSPrint 0,160,100,a$
```

This will print "Hello to all you people" and "out there!" on separate lines of the destination bitmap. Both lines will be centered.

The control code to changeing ink colour during line printing is still the same (Ascii 1). See the section on FNSPrint for more information about it.

FNS Font file format: =====

Header: 256 bytes.

```
0-3   : 'FNS.' - file identifier - looked for by InstallFNS
4-5   : height of font (#word)
6-7   : width of font in multiples of 16 (#word)
8-9   : underline position (offset from top of font, #word)
10-11 : size of data for each font character
      [ (WIDTH/8) * height ]
32-255: byte giving widths of each character in the font.
      These bytes doesn't really hold the width, rather
      they hold the value to add to the X position of the
      character to get to the position to print the next
      character at (!).
```

256-EOF:character data starting at ASCII 32 (space)

1.130 RIFNSLib

Statement: FNSSetTab

Modes : Amiga/Blitz

Syntax: FNSSetTab tab_width

Use this command to set the tab spacing used when printing. The value given should be the spacing IN pixels.

1.131 RIFNSLib

Function: FNSLoad

Modes : Amiga/Blitz

Syntax: suc=FNSLoad (filename\$,font#)

This command is used to load a font from disk and automatically install it for use by the FNS commands. Filename\$ should be the full name of the file to load (path\$+file\$) and font# should be 0<= and >=15. This command returns a value of -1 for failure or the font number the font was installed as (see InstallFNS). A failure could either be a load error or an installation error.

You should make sure that the file you load IS an FNS font file.

IMPORTANT NOTE: to use this command, you must have our RIAM*S library installed on your copy of Blitz2. Running it without this library could, and probably will, cause a major crash of your computer.

Also note that if you do an ERASEALL (RIAM*S library command for erasing banks), you will DELETE your font from memory!

1.132 RIFNSLib

Statement: FNSUnLoad

Modes : Amiga/Blitz

Syntax: FNSUnLoad font#

This command is used to remove a font installed with the FNSLoad command. When this command runs it automatically removes the font entry in the FNS commands and deletes the memory that the font file is held in. There is no need to do this at the end of a program as the RIAM*S library automatically frees up all allocated memory.

1.133 RIFNSLib

Function: FNSSlot

Modes : Amiga/Blitz

Syntax: address.l=FNSSlot

FNSSlot returns the adres of 16 longwords. These longwords are the actual addresses of fonts in memory. This command is really just for testing purposes.

1.134 RIFNSLib

Function: InstallFNS

Modes : Amiga/Blitz

Syntax: font_num.b=InstallFNS(font_num.b,address.l)

This is used to install a font so that it is available for use by the output routines. Font_num should be a number ≥ 0 and ≤ 15 , address should be the address in memory of the FNS font file. This function will check that the address given does contain a FNS font (it will look for the header 'FNS. '), if it cannot find the font or something else goes wrong it will return a 0 to you, otherwise it will return the number the font was installed as.

Note: The font number you give is automatically ANDED with \$F when you call this function, thus if you supply a number greater than 15 you could actually overwrite a previously installed font.

See: RemoveFNS

1.135 RIFNSLib

Statement: RemoveFNS

Modes : Amiga/Blitz

Syntax: RemoveFNS font#

This command simply removes an installed font from the list of font held internally by the FNS routines. There is no real need to remove fonts as installing fonts takes up no memory, except of course the actual font data. You do not need to remove FNS fonts before ending a program.

See: InstallFNS

1.136 RIFNSLib

Statement: FNSPrint

Modes : Amiga/Blitz

Syntax: FNSPrint font_num.b,x.w,y.w,a\$/string_address
[,preferences,colour]

This command prints the string a\$ in an FNS font at the position X,Y. Font_num is the number of a previously installed FNS font, the output of this command is sent to the current FNS bitmap (see FNSOutput). You can setting a drawing rectangle on the currently used bitmap to limit the output of the font - see FNSClip for more info.

Instead of a string, though, you can give the address of a null terminated string in memory. Also, you can change the colour that text is being output in in the current string by putting the character ASCII 1 followed by a byte value from 0-255 specifying the colour to change to.

The optional parameters are for controlling how the text is output. They automatically override the default setting but are not permanent, i.e. the default output style and colour are restored after the line has been output. Use FNSInk and FNSPrefs to set the default font output mode.

See: FNSOutput, FNSInk, FNSPrefs, FNSOrigin, FNSClip

1.137 RIFNSLib

Statement: FNSOutput

Modes : Amiga/Blitz

Syntax: FNSOutput bitmap#[,clip_update]

This command selects a bitmap for use by the FNS routines, the bitmap must be a previously reserved Blitz 2 bitmap object. After this command all FNS font printing will occur on the selected bitmap. The optional parameter allows you to update the clipping rectangle for output at the same time as setting the output bitmap. Setting clip_update to a non-zero value will cause the clipping area to automatically be set to the dimensions of the selected bitmap.

NOTE:

This command MUST be used before you attempt to use FNSPrint. The maximum depth of the bitmap for printing is 8 bitplanes since this is all Blitz 2 currently supports.

See: FNSClip, FNSClipOutput

1.138 RIFNSLib

Statement: FNSInk

Modes : Amiga/Blitz

Syntax: FNSInk colour#

This sets the output colour for the FNS font drawing routines. The number range is dependant on the depth of the destination bitmap, the max possible range, though, is limited to 0 to 255 colours. The FNS output routines will attempt to draw in all the bitplanes of the selected bitmap, any extra bits in the ink colour will be ignored.

See: FNSPrefs

1.139 RIFNSLib

Statement: FNSPrefs

Modes : Amiga/Blitz

Syntax: FNSInk preferences[,colour#]

This sets the output prefs for the FNS font drawing routines but at the same time also sets the colour for the FNS routines (optional). At the moment the following options are available, the bits of the preferences byte are used to select the different options:

	bit 0: Centred text
	bit 1: Bold text
bit 2: Underline	
bit 3: Right aligned	

See: FNSInk, FNSPrint, FNSLength

1.140 RIFNSLib

Function: FNSHeight

Modes : Amiga/Blitz

Syntax: height.w=FNSHeight(font_num)

This routine returns the height of a previously installed FNS font. Font_num should be >=0 and <=15.

See: FNSUnderline, FNSWidth

1.141 RIFNSLib

Function: FNSUnderline

Modes : Amiga/Blitz

Syntax: under_pos=FNSUnderline(font_num)

This routine returns the underline position of the selected FNS font. Font_num should be >=0 and <=15.

See: FNSHeight, FNSWidth

1.142 RIFNSLib

Function: FNSWidth

Modes : Amiga/Blitz

Syntax: width.w=FNSWidth(font_num)

This routine returns the width in multiples of 16 of the selected FNS font. Font_num should be >=0 and <=15.

See: FNSHeight, FNSUnderline

1.143 RIFNSLib

Statement: FNSClip

Modes : Amiga/Blitz

Syntax: FNSClip x1,y1,x2,y2

This command is used to limit the output of the FNSPrint command. The co-ordinates given should describe a rectangle that is to be used to clip the output. This rectangle can be thought of as a window on the bitmap - no printing can occur outside of the window.

X1,Y1 are the top left corner of the clipping rectangle and X2,Y2 are the bottom right corner. Please note that both X co-ordinates should be multiples of 16 and that X2 should be the heightest multiple of 16 that you do not wish output to occur at. Thus if your bitmap is 320x256 then you would use the following to set the clipping rectangle to the full bitmap:

FNSClip 0,0,320,256

See: FNSClipOutput, FNSOutput

1.144 RIFNSLib

Statement: FNSClipOutput

Modes : Amiga/Blitz

Syntax: FNSClipOutput

This command is used to quickly set the clipping rectangle for the FNS commands to the full size of a bitmap.

See: FNSClip, FNSOutput

1.145 RIFNSLib

Statement: FNSOrigin

Modes : Amiga/Blitz

Syntax: FNSOrigin [x,y]

This command is used to set an origin co-ordinate for printing output. Whenever you use FNSPrint, the origin co-ordinates are added (as words) to the co-ordinates you give for output. I.e. setting the origin at 100,0 and printing at co-ordinates 0,0 will cause the output to be at 100,0.

Using this command without any parameters will cause the origin to be reset to the position 0,0.

Note: This command does not affect the use of the FNSClip command.

1.146 RIFNSLib

Function: FNSLength

Modes : Amiga/Blitz

Syntax: a=FNSLength (font#,a\$[,prefs])

This command is equivalent of the basic command a=len(a\$) except that it returns the x size, in pixels, of the string if it were to be printed in the font font#. The optional preferences parameter allows you to adjust the output of the string, if you specify no preferences then this function will use the previously selected preferences to calculate the string length. Using preferences allows you to account for things like bold text output.

See: FNSPrefs

1.147 RIFNSLib

Function: FNSVersion

Modes : Amiga/Blitz

Syntax: a.q=FNSVersion

This command allows you to test the version number of the FNS library that your program is being compiled with. It returns a quick float value and so you should use a quick float variable for the answer. This doc file was written for version 1.0 of the library.

FNS Font file format:

=====

Header: 256 bytes.

0-3 : 'FNS.' - file identifier - looked for by InstallFNS
 4-5 : height of font (#word)
 6-7 : width of font in multiples of 16 (#word)
 8-9 : underline position (offset from top of font, #word)
 10-11 : size of data for each font character
 [(WIDTH/8) * height]
 32-255: byte giving widths of each character in the font.
 These bytes doesn't really hold the width, rather
 they hold the value to add to the X position of the
 character to get to the position to print the next
 character at (!).

 256-EOF:character data starting at ASCII 32 (space)

1.148 RIFNSLib: Command Index

Command index for library RIFNSLib

Library Main

Number of commands: 18

FNSClip	FNSClipOutput
FNSHeight	FNSInk
FNSLength	FNSLoad
FNSOrigin	FNSOutput
FNSPrefs	FNSPrint
FNSSetTab	FNSSlot
FNSUnderline	FNSUnLoad
FNSVersion	FNSWidth
InstallFNS	RemoveFNS

1.149 RIFxLib

```

-----
====                RI FX Library V1.2 (C)1994                ====
-----
  
```

Written By Stephen McNamara (help from Steven Matty)
 ©1994 Leading Edge Software

Command Index

Note: The library has had a lot of the commands inside it expanded so that they work on any size bitmap. At the moment the following, though, will only work on lorez bitmaps: ZoomX8, Derez and ZoomXY

None of the commands in this library use the blitter chip.
 Also note that the maximum bitmap depth for these functions is 8.

Command list:

FadeInBitmap source#,dest#,delay[,offset1,offset2,height]


```

ClearBitmap source#,delay[,offset,height]
ZoomX2 source#,dest#,add_source,add_dest,width,height
ZoomX4 source#,dest#,add_source,add_dest,width,height
ZoomX8 source#,dest#,add_source,add_dest,width,height
addval.w=ADDValue(bitmap#,x,y)
InitZoomXY source#,dest#,add_source,add_dest
ZoomXY xzoom_value,yzoom_value,height
Derez source#,dest#,add_source,add_dest,derez_value,height

```

This two commands have been removed from this library to reduce its size. If you need or want these commands then just mail me or Steve and we'll sort something out for you.

```

(Slow) PlanarToChunky bitmap_addr,dest_address,width,height,depth
(Slow) ChunkyToPlanar source_address,bitmap_addr,width,height,depth

```

1.150 RIFxLib

Statement: FadeInBitmap

=====

Modes : Amiga/Blitz

Syntax: FadeInBitmap source#,dest#,delay[,offset1,offset2,height]

This is used to make an any width, any height, bitmap appear on another one in a nice way. Source# and dest# should be bitmap object numbers and delay is the 'slow-down' value for the fade. This is necessary because this routine works very fast - at full speed it looks just like a slow screen copy. You should note that the delay is taken as being a word, thus don't pass 0 or you'll actually get a delay of 65535. This routine will adjust itself to take into account the depth of the bitmap, WARNING: the depth of the destination bitmap should be AT LEAST as big as the depth of the source# bitmap because the depth of the fade is taken from the source# bitmap.

The optional parameters in this command allow you to set respectively: the source bitmap y offset, the destination bitmap y offset and the height of the fade (in pixels). If these parameters are left out then the fade automatically occurs across the full size of the bitmap.

See: ClearBitmap

1.151 RIFxLib

Statement: ClearBitmap

=====

Modes : Amiga/Blitz

Syntax: ClearBitmap source#,delay[,offset,height]

This is used to clear an any width, any height, bitmap in a very pleasant way. The parameters are the same as for FadeInBitmap except that only one bitmap is needed. The delay parameter is used for the same reason as in FadeInBitmap - to slow down the effect. The optional

parameters allow you to set a y start value for the clear and the height (in pixels) of the clear.

See: FadeInBitmap

1.152 RIFxLib

Statement: ZoomX2

=====

Modes : Amiga/Blitz

Syntax: ZoomX2 source#,dest#,add_source,add_dest,width,height

This command does a very fast X2 zoom. It works with two bitmaps - one source and one dest (note: these can be the same bitmap but you should be careful that the zoom is not done over the source data). The two parameters add_source and add_dest allow you to specify the position of the start of the zoom, they specified as byte offsets from the top left corner of the bitmaps (byte 0). These values can be calculated by the following method:

$$\text{add_source} = (Y \times \text{BITMAP_WIDTH (in bytes)} + (X / 8))$$

or by using the built in command ADDValue. Width and height are both specified in pixels.

NOTE: There is no clipping on this command - be careful not to zoom off the edges of bitmaps.

You can zoom from a bitmap to a different size bitmap BUT the destination bitmap must be as deep as the source and big enough to hold the zoomed data.

See: ZoomX4, ZoomX8 and ADDValue

1.153 RIFxLib

Statement: ZoomX4

=====

Modes : Amiga/Blitz

Syntax: ZoomX4 source#,dest#,add_source,add_dest,width,height

This is exactly the same as ZoomX2 except that a times 4 zoom is done by this command.

Note: You can zoom from a bitmap to a different size bitmap BUT the destination bitmap must be as deep as the source and big enough to hold the zoomed data.

See: ZoomX2, ADDValue

1.154 RIFxLib

Statement: ZoomX8

=====

Modes : Amiga/Blitz

Syntax: ZoomX8 source#,dest#,add_source,add_dest,width,height

This is exactly the same as ZoomX2 except that a times 8 zoom is done by this command

See: ZoomX2, ADDValue

1.155 RIFxLib

Function: ADDValue

=====

Modes : Amiga/Blitz

Syntax: addval.w=ADDValue(bitmap#,x,y)

This function can be used to calculate the add_source and add_dest values used in all the zoom commands. Just give the bitmap number, x co-ordinate and the y co-ordinate and you'll get an answer back that can be used straight in the ZoomXn commands.

See: ZoomX2, ZoomX4, ZoomX8 and ZoomXY

1.156 RIFxLib

Statement: InitZoomXY

=====

Modes : Amiga/Blitz

Syntax: InitZoomXY source#,dest#,add_source,add_dest

This command initialises the ZoomXY routine to the bitmaps you want it to work on. You MUST use this routine before calling ZoomXY. The parameters are the same as the first four parameter for the ZoomXn commands - source and dest bitmaps and add_source/dest values.

See: ZoomXY

1.157 RIFxLib

Statement: ZoomXY

=====

Modes : Amiga/Blitz

Syntax: ZoomXY xzoom_value,yzoom_value,height

This command does a zoom based on the values you give it. You should note, though, that zoom values should be integer values (no fractional part). The height is the height in pixels that the source data should be zoomed to. Please note that this command is different to the other zoom

commands in that the output of it is clipped to fit inside 320 pixels.

This command should only be used after InitZoomXY has been called. This routine has an extra feature in that if you give both zoom values as 1 then a bitmap copy is done from the source to the dest using the offsets given and the height.

See: InitZoomXY

1.158 RIFxLib

Statement: Dereze

=====

Modes : Amiga/Blitz

Syntax: Dereze source#,dest#,add_source,add_dest,derez_value,height

This command is used to dereze a low resolution bitmap onto another one. The bitmaps are source# and dest#, add_source and add_dest are used to control the start position of the dereze (see ZoomX2 and ADDValue to see how these are calculated). The dereze value is obviously the amount that each pixel will be derezed to in both the x and y directions, the height is the height of the dereze - the dereze is clipped to fit inside this in the y direction and inside 320 pixels in the x direction.

This routine has an extra feature in that if you give dereze_value as 1 then a bitmap copy is done from the source to the dest using the offsets given and the height.

1.159 RIFxLib

Statement: ReduceX2

=====

Modes : Amiga/Blitz

Syntax: ReduceX2 source#,dest#,add_source,add_dest,width,height

This command halves the given rectangle of one bitmap and pastes it onto the destination bitmap. Width should be a multiple of 16, width and height should describe a rectangular area that will be reduced (these values should be in pixels).

See ZoomX2 and other commands for more information about the syntax of this command.

1.160 RIFxLib: Command Index

Command index for library RIFxLib

Library Main

Number of commands: 10

```

ADDValue
ClearBitmap
Derez
FadeInBitmap
InitZoomXY
ReduceX2
ZoomX2
ZoomX4
ZoomX8
ZoomXY

```

1.161 RIGfxLib

```

-----
====                RI GFX Function Library V1.2 (C)1994                ====
-----

```

Written By Stephen McNamara & Steven Matty
©1994 Leading Edge Software

Command Index

This library contains commands for the control of palette objects inside Blitz2. These are just simple commands that allow either interrogation of the palette objects or modifications to the colour values contained in them. After changing the palette with these commands, you'll have to do either a USE PALETTE or DISPLAYPALETTE (whichever is applicable to what you're doing) to make the changes come into effect on your screen.

Or send us anything you've written.....

Command list:

```

PaletteInfo palette#
r.w=PalRed (Colour#)
g.w=PalGreen (Colour#)
b.w=PalBlue (Colour#)
r.w=AGAPalRed (Colour#)
g.w=AGAPalGreen (Colour#)
b.w=AGAPalBlue (Colour#)
PalAdjust dest_palette#,ration.q[,start_col,end_col]
FillPalette palette#,r,g,b[start_col,end_col]
AGAFillPalette palette#,r,g,b[start_col,end_col]

```

New commands:

```

[suc=]CopyColour source_pal#,dest_pal#,source_col#,dest_col#
[suc=]SaveCMAP palette#,filename$
CPUCLs bitmap#

```

1.162 RIGfxLib

Statement: PaletteInfo

Modes : Amiga/Blitz

Syntax: PaletteInfo Palette#

This command is used to specify the palette object that all palette interrogations should look at. The majority of the commands use this palette object as the source for their data, e.g. PalRed(1) will look at the red value of colour 1 of the palette last used in a PaletteInfo command.

1.163 RIGfxLib

Function: PalRed

Modes : Amiga/Blitz

Syntax: r.w=PalRed (Colour#)

This command is used to get the red value of colour number Colour#. You should use the PaletteInfo command to specify what palette this command takes its information from.

The value returned will be from 0 to 15

1.164 RIGfxLib

Function: PalGreen

Modes : Amiga/Blitz

Syntax: g.w=PalGreen (Colour#)

This command is used to get the green value of colour number Colour#. You should use the PaletteInfo command to specify what palette this command takes its information from.

The value returned will be from 0 to 15

1.165 RIGfxLib

Function: PalBlue

Modes : Amiga/Blitz

Syntax: b.w=PalBlue (Colour#)

This command is used to get the blue value of colour number Colour#. You should use the PaletteInfo command to specify what palette this command takes its information from.

The value returned will be from 0 to 15

1.166 RIGfxLib

Function: AGAPalRed

Modes : Amiga/Blitz

Syntax: r.w=AGAPalRed (Colour#)

This command is used to get the red value of colour number Colour#. You should use the PaletteInfo command to specify what palette this command takes its information from.

The value returned will be from 0 to 255, this number of shades, though, can only be displayed on an AGA machine.

1.167 RIGfxLib

Function: AGAPalGreen

Modes : Amiga/Blitz

Syntax: g.w=AGAPalGreen (Colour#)

This command is used to get the green value of colour number Colour#. You should use the PaletteInfo command to specify what palette this command takes its information from.

The value returned will be from 0 to 255, this number of shades, though, can only be displayed on an AGA machine.

1.168 RIGfxLib

Function: AGAPalBlue

Modes : Amiga/Blitz

Syntax: b.w=AGAPalBlue (Colour#)

This command is used to get the blue value of colour number Colour#. You should use the PaletteInfo command to specify what palette this command takes its information from.

The value returned will be from 0 to 255, this number of shades, though, can only be displayed on an AGA machine.

1.169 RIGfxLib

Statement: PalAdjust

Modes : Amiga/Blitz

Syntax: PalAdjust dest_palette#,ration.q[,start_col,end_col]

This command is used to multiple all the colours, or a range of colours, in a palette object, by a ratio. The dest_palette# argument is used to

give a destination for the adjusted colour information. This destination should be a pre-reserved palette and should be AT LEAST as big and the source palette. The source palette is taken as being the palette last used in the PaletteInfo command.

The ratio should be given as either a quick value or a float and should be below one for a fade or above to lighten a palette. If you give a ratio of 1 then a palette copy will occur.

The optional start and end parameters let you specify the range of colours to adjust. Only this range of colours, though, will be adjusted and stored in the destination palette.

1.170 RIGfxLib

Statement: FillPalette

Modes : Amiga/Blitz

Syntax: FillPalette palette#,r,g,b[start_col,end_col]

This command lets you fill a given palette object with specific r,g,b values. The values given should be between 0 to and 15. Optionally, you can give start and end colour numbers to set a range for the fill. You should be careful, though, because when you specify a range, no checking is done (at the moment) to make sure that you don't exceed the colour limit of the palette.

You should note that this command does not work on the palette last PaletteInfo'ed.

1.171 RIGfxLib

Statement: AGAFillPalette

Modes : Amiga/Blitz

Syntax: AGAFillPalette palette#,r,g,b[start_col,end_col]

This command is identical to FillPalette except that it lets you specify AGA shade values for the r,g,b parameters.

See FillPalette for more information.

1.172 RIGfxLib

Statement/Function: CopyColour

Modes : Amiga/Blitz

Syntax: [suc=]CopyColour source_pal#,dest_pal#,source_col#,dest_col#

This will attempt to copy a colour entry in a palette to another entry, which can be in a separate palette or the same. If used as a function,

then it will return -1 for success, or 0 for failure. The command fails if either of the colour numbers is out of the range of the relevant palette.

1.173 RIGfxLib

Statement/Function: SaveCMAP

Modes : Amiga

Syntax: [suc=]SaveCMAP palette#,filename\$

This command will save out the given palette as an IFF file, with just a BMHD and CMAP. This file can be loaded into graphics packages like DPaint. It will return -1 for success in saving, or 0 for failure.

1.174 RIGfxLib

Statement: CPUCLs

Modes : Amiga/Blitz

Syntax: CPUCLs bitmap#

Does a clear of a bitmap using the CPU. This command, unlike the Acid command Cls, only clears to colour 0. On accerelated machines, though, it out performs the Cls instruction.

>> END

1.175 RIGfxLib: Command Index

Command index for library RIGfxLib

Library Main

Number of commands: 13

AGAFillPalette	AGAPalBlue
AGAPalGreen	AGAPalRed
CopyColour	CPUCLs
FillPalette	PalAdjust
PalBlue	PaletteInfo
PalGreen	PalRed
SaveCMAP	

1.176 RListLib

```
-----
====                RI LinkList Library V0.91B (C)1995                ====
-----
```

Written By Steven Matty
©1995 Leading Edge Software

Command Index

NOTICE:

=====

This library is currently in the very EARLY testing stage, so PLEASE do not rely on the stability/continuity in the future. It can and probably WILL change in the future. Especially dont rely on the structure of the linked list nodes to remain the same - they have already changed since V0.9B.

All commands can be optionally used as functions, eg. suc=<command>(params)
(EXCEPT: AddrListItem)

WARNING!

=====

Do NOT use list numbers of 5 or higher! Your machine will crash if you try.
Future version will check for this.

Command List:

```
InitList list#,var
AddListItem list#
DelListItem list#
SetListItem list#,var
GetListItem list#,var
NextListItem list#
PrevListItem list#
FirstListItem list#
LastListItem list#
AddFirstListItem list#
AddLastListItem list#
ad.l=AddrListItem(list#)
```

1.177 RListLib

Statement/Function: InitList

```
-----
Mode      : Amiga/Blitz
Syntax    : InitList list#,var
```

This command will initialize a linked list for your use. It will also add the first node (which will contain the contents of <var>). list# must be less than five. This command optionally returns 0 for failure,

or -1 for success.

1.178 RListLib

Statement/Function: AddListItem

Mode : Amiga/Blitz
Syntax : AddListItem list#

This command will attempt to add another item onto your list at the current position. This command optionally returns 0 for failure (no list initialized or not enough RAM) or -1 for success.

1.179 RListLib

Statement/Function: DelListItem

Mode : Amiga/Blitz
Syntax : DelListItem list#

This command will attempt to delete the current item from your list. If the current item is the ONLY item then this command will fail. (To be fixed in later version). -1 means success.

1.180 RListLib

Statement/Function: SetListItem

Mode : Amiga/Blitz
Syntax : SetListItem list#,var

This command will store the contents of <var> into the current node (created by AddNode). -1 means success.

1.181 RListLib

Statement/Function: GetListItem

Mode : Amiga/Blitz
Syntax : GetListItem list#,var

This command will store the contents of the current list item into your variable specified by <var>. -1 means success

1.182 RListLib

Statement/Function: NextListItem

Mode : Amiga/Blitz
Syntax : NextListItem list#

This command will move you onto the next item in your list. 0 indicates failure (no list/end of list) or -1 for success.

1.183 RListLib

Statement/Function: PrevListItem

Mode : Amiga/Blitz
Syntax : PrevListItem list#

This command will move you back to the previous item in your list. 0 indicates failure (no list/start of list) or -1 for success.

1.184 RListLib

Statement/Function: FirstListItem

Mode : Amiga/Blitz
Syntax : FirstListItem list#

This command will take you to the first item in your list. 0 indicates failure (no list) or -1 for success.

1.185 RListLib

Statement/Function: LastListItem

Mode : Amiga/Blitz
Syntax : LastListItem list#

This command will take you to the last item in your list. 0 indicates failure (no list) or -1 for success.

1.186 RListLib

Statement/Function: AddFirstListItem

Mode : Amiga/Blitz
Syntax : AddFirstListItem list#

This command will insert a node to the front of your list. 0 indicates failure (no list/no RAM) or -1 for success.

1.187 RListLib

Statement/Function: AddLastListItem

Mode : Amiga/Blitz
Syntax : AddLastListItem list#

This command will add a node to the end of your list. 0 indicates failure (no list/no RAM) or -1 for success.

1.188 RListLib

Function: AddrListItem

Mode : Amiga/Blitz
Syntax : ad.l=AddrListItem(list#)

This function will return the address of the current node in your list.

Version Details

=====

Version 0.9 (22/1/95)

First Release. No Docs.

Version 0.91 (29/1/95)

Modified format of nodes to mirror exec lists. Should be ok to use in Gadtools Listviews etc...(UNTESTED).

Added AddrListItem command which returns address of current item.

1.189 RListLib: Command Index

Command index for library RListLib

Library Main

Number of commands: 12

AddFirstListItem	AddLastListItem
AddListItem	AddrListItem
DellListItem	FirstListItem
GetListItem	InitList
LastListItem	NextListItem
PrevListItem	SetListItem

1.190 RlPackLib

```
=====
                        RI Pack Library V1.2 (C)1994
=====
```

Written By Stephen McNamara & Steven Matty
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Command Index

This library contains commands for the unpacking of ILBM's (IFF pictures) and the grabbing of their palettes (CMAP chunks). Nearly all the commands in this library can be used as either STATEMENTS or FUNCTIONS. Usage is identical in both cases but if used as a function then the command will return:

FALSE for failure
TRUE for success

Command list:

```
UnpackIFF address.l,bitmap#[,lines,offset]
suc=UnpackIFF (address.l,bitmap#[,lines,offset])
ILBMPalette address.l,palette#
suc=ILBMPalette (address.l,palette#)
ILBMGrab address.l,bitmap#,palette#
LoadIFF filename$,bitmap#[,palette#]
suc=LoadIFF (filename$,bitmap#[,palette#])
DeIce source_address,dest_address
suc=DeIce (source_address,dest_address)
val.l=ChunkHeader (A$)
```

1.191 RlPackLib

Statement/Function: UnpackIFF

Modes : Amiga/Blitz

Syntax: UnpackIFF address.l,bitmap#[,lines,offset]
suc=UnpackIFF (address.l,bitmap#[,lines,offset])

This command is used to unpack an IFF picture file from memory onto a

bitmap. Address.l should point to the START of the iff file header in memory (either CHIP or FAST mem can be used), bitmap should be the number of a previously initialised bitmap. The optional lines parameter allows you to specify the number of lines to unpack from the IFF file.

This command checks the size of the bitmap against the size of the IFF before it unpacks the IFF onto it. Checks are made for width, height and depth of the bitmap and the IFF and the following is done:

(size=WIDTH, HEIGHT and DEPTH)

```
BITMAP 'size' < IFF 'size' : unpack aborted
BITMAP 'size' = IFF 'size' : pic is unpacked
BITMAP 'size' > IFF 'size' : pic is unpacked
```

Extra aborts can be caused by:

- not using a previously installed bitmap
- given the optional lines parameter as 0 or less
- not giving ADDRESS.l as a pointer to a valid IFF ILBM header

When using the optional parameters, you should note that if you try to unpack more lines than the IFF has, the unpack routine will automatically stop at the last line of the IFF. It will not reject the UnpackIFF command. Also note that the offset is a byte offset from the start of the bitplanes. You can use the AddValue command to calculate this value.

NOTE: you should save your IFF pictures with the STENCIL OFF because at the moment this routine does not check to see if STENCIL data is present in the IFF file.

1.192 RlPackLib

Statement/Function: ILBMPalette

Modes : Amiga/Blitz

Syntax: ILBMPalette address.l,palette#
 suc=ILBMPalette (address.l,palette#)

This command is used to grab the palette from a IFF picture file held in memory (CHIP or FAST mem). Address.l should be given as the address of either an IFF file in memory or a CMAP chunk in memory. When you use the SAVE PALETTE command from inside an art program (e.g. DPaint) or from inside Blitz2, the program saves out a CMAP chunk which gives details about the palette. The CMAP chunk is also saved with IFF picture files to give the palette of the picture.

This command will look at the address you gave and try and find a CMAP chunk from the address given to address+5120. If it finds a chunk it will grab the palette into the given palette object. If the palette object already contains palette information then this information is deleted. This routine looks in the CMAP chunk and reserves the palette object to have the same number of colour entries.

This command will fail if it doesn't find a CMAP chunk.

1.193 RlPackLib

Statement: ILBMGrab

Modes : Amiga/Blitz

Syntax: ILBMGrab address.l,bitmap#,palette#

This command lets you grab both the palette and the graphics from an IFF picture file with just one command. It returns to success parameter to say whether or not it succeeded in grabbing the data, so if you need to know if the grabbing was successful you'll have to use the separate commands for grabbing palettes and graphics.

NOTE: this command essentially just calls both UnpackIFF and ILBMPalette so everything said about these commands is relevant for ILBMGrab.

1.194 RlPackLib

Statement/Function: LoadIFF

Modes : Amiga

Syntax: LoadIFF filename\$,bitmap#[,palette#]

suc=LoadIFF (filename\$,bitmap#[,palette#])

This command is a direct replacement for Blitz2's LoadBitmap. It is a lot faster than Blitz's command since it loads the file into memory and then unpacks it from there. Thus you need to ensure that you have enough free memory to load the IFF into before trying to use this command.

This command is also more stable than Blitz's since it checks for the existence of the file before trying to load it in.

The optional parameter allows you to load in the palette of the IFF picture. Refer to UnpackIFF and ILBMPalette for more information about unpacking the graphics and grabbing the palettes.

IMPORTANT NOTE: to use this command you must have our FUNC library installed in your copy of Blitz2. Use of this command without this library will probably lead to a bad crash of your Amiga!

1.195 RlPackLib

Statement/Function: DeIce

Modes : Amiga

Syntax: DeIce source_address,dest_address

suc=DeIce (source_address,dest_address)

This is a command from my (Stephen McNamara) past.

It is used to unpack data files packed by my favourite Atari ST packer - PACK ICE v2.40. I've put it into Blitz because still have loads of files that I've packed with it. To use it, source_address should (obviously)

contain the address of the data, `dest_address` should be where to unpack the data to. In the function form, this command returns either 0 for unpack failed or -1 for success.

Note: The size of the data unpacked is the long word at `source_address+8` (I think, or is it 4?) if anybody is interested.....

1.196 RIPackLib

Function: `ChunkHeader`

Modes : Amiga

Syntax: `val.l=ChunkHeader (A$)`

This command was put in by me (Stephen McNamara) before I realised Blitz already had a command that does exactly the same. I've left it in just because I want to. It is useful when looking through IFF files for chunks (e.g. ILBM, CMAP, etc.) as it gives you a longword value to look for in memory to find the chunk. The string should be a four character string (e.g. CMAP), you'll be returned the longword value of the string.

This command does the job of the following bit of Blitz2 code:

```
a$="CMAP"
val.l=Peek.l(&a$)
```

>> END

1.197 RIPackLib: Command Index

Command index for library RIPackLib

Library Main

Number of commands: 6

```
ChunkHeader
DeIce
ILBMGrab
ILBMPalette
LoadIFF
UnpackIFF
```

1.198 RIReqLib

```
=====
RI REQ Library V0.9 (C)1994
=====
```

Written By Steven Matty

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Command Index

The well known Req.Library for the Amiga is one of the best file requesters around, so I wrote this small lib to enable Blitz users to have Req requesters in their programs with the minimum of hassle.

* PLEASE NOTE * That this library must have at least v2.2 of the Req.Library available.

Command List:

```
ReqOutput()  
ReqFileRequest()  
ReqFileLoc()
```

1.199 RIReqLib

Statement: ReqOutput

Modes : Amiga
Syntax : ReqOutput windownumber

This command sets the ReqLib.library to put all requesters onto the window specified by <windownumber>. If this command is not called then the requesters will appear on the Default Public Screen.

1.200 RIReqLib

Function: ReqFileRequest

Modes : Amiga
Syntax : pathname\$=ReqFileRequest([title\$[,flags]])

This opens up the standard file requester. If <title\$> is given then the text will appear on the requester title bar.
The optional <flags> parameter specifies a flag setting (see below) for use. If this is omitted then the last flag setting is used.

1.201 RIReqLib

Function: ReqFileLoc

Modes : Amiga/Blitz
Syntax : memorylocation.l=ReqFileLoc

This simply returns the address in memory where the Req.Library file requester structure is located.

FLAGS
=====

Below is a list of possible flag settings and a brief description of each.

```
#FRQSHOWINFOB      = %1      ;Set to show .info files. Default is not.
#FRQEXTSELECTB     = %10     ;Extended select. Default is not.
#FRQCACHINGB       = %100    ;Directory caching. Default is not.
#FRQGETFONTSB      = %1000   ;Font requester rather than a file requester.
#FRQINFOGADGETB    = %10000  ;Hide-info files gadget.
#FRQHIDEWILDSB     = %100000  ;DON'T want 'show' and 'hide' string gadgets.
#FRQABSOLUTEXYB    = %1000000 ;Use absolute x,y positions rather than centering ←
    on mouse.
#FRQCACHEPURGEB    = %10000000 ;Purge the cache whenever the directory date stamp ←
    changes if this is set.
#FRQNOHALFCACHEB   = %100000000 ;Don't cache a directory unless it is completely ←
    read in when this is set.
#FRQNOSORTB        = %1000000000 ;DON'T want sorted directories.
#FRQNODRAGB        = %10000000000 ;DON'T want a drag bar and depth gadgets.
#FRQSAVINGB        = %100000000000 ;Are selecting a file to save to.
#FRQLOADINGB       = %1000000000000 ;Are selecting a file(s) to load from.
#FRQDIRONLYB       = %10000000000000 ;Allow the user to select a directory, rather ←
    than a file.
```

STRUCTURE
=====

Below is a description of the Req.Library file requester structure.

```
STRUCTURE AFileRequester,0
    UWORD frq_VersionNumber      ;MUST BE REQVERSION!!!!!!!!!!!!!!!!!!!!!!

    ;You will probably want to initialize these three variables.
    APTR frq_Title              ; Hailing text
    APTR frq_Dir                ; Directory array (must be DSIZE+1 characters long)
    APTR frq_File               ; Filename array (must be FCHARS+1 characters long)
    ;If you initialize this variable then the file requester will place the complete ←
    path name in here on exit.
    APTR frq_PathName           ; Complete path name array - (must be DSIZE+FCHARS+2 ←
    long)
    ;If you want the file requester to pop up on your custom screen, put one of your ←
    window pointers here.
    ;Or better yet, you can leave this field zeroed and put a pointer to one of your ←
    windows in the
    ;pr_WindowPtr field in your process structure.
    APTR frq_Window             ; Window requesting or NULL
    ;Initialize these to the number of lines and columns you want to appear in the ←
    inner window that
    ;displays the file names. If you leave these set to zero then default values ←
    will be used.
```

```

UWORD frq_MaxExtendedSelect ; Zero implies a maximum of 65535, as long as ←
    FRQEXTSELECT is set.
UWORD frq_numlines ; Number of lines in file window.
UWORD frq_numcolumns ; Number of columns in file window.
UWORD frq_devcolumns ; Number of columns in device window.
ULONG frq_Flags ; Various - umm - flags. See above for more info.
UWORD frq_dirnamescolor ;These five colors will all default
UWORD frq_filenamescolor ;to color one if you don't specify
UWORD frq_devicenamescolor ;a color (ie; if you specify color zero).
UWORD frq_fontnamescolor ;If you want color zero to be used, specify
UWORD frq_fontsizescolor ;color 32, or some other too large number
    ;which mods down to zero.

UWORD frq_detailcolor ;If both of these colors are specified as
UWORD frq_blockcolor ;zero then the block pen will be set to one.

UWORD frq_gadgettextcolor ;The color for the text of the five boolean gadgets. ←
    Defaults to 1.
UWORD frq_textmessagecolor ;The color for the message at the screen top. ←
    Defaults to 1.
UWORD frq_stringnamecolor ;The color for the words Drawer, File, Hide and Show. ←
    Defaults to 3.
UWORD frq_stringgadgetcolor ;The color for the borders of the string gadgets. ←
    Defaults to 3.
    ;Unfortunately it is not possible to specify
    ;the color of the actual text in an Intuition
    ;string gadget.
UWORD frq_boxbordercolor ;The color for the boxes around the file and directory ←
    areas. Defaults to 3.
UWORD frq_gadgetboxcolor ;The color for the boxes around the five boolean ←
    gadgets. Defaults to 3.

STRUCT frq_RFU_Stuff,36 ;This area, which is reserved for
    ;future use, should all be zero.

STRUCT frq_DirDateStamp,ds_SIZEOF ; A copy of the cached directories date ←
    stamp.
    ; There should never be any need to change this.

UWORD frq_WindowLeftEdge; ;These two fields are only used when the
UWORD frq_WindowTopEdge; ;FRQABSOLUTEXY flag is set. They specify
    ;the location of the upper left hand
    ;corner of the window.

UWORD frq_FontYSize ;These fields are used to return the selected
UWORD frq_FontStyle ;font size and style, only applicable when the
    ;font bit is set.

;If you set the extended select bit and the user extended selects, the list of ←
    filenames will start from here.
APTR frq_ExtendedSelect ; Linked list of ESStructures if more than one ←
    filename is chosen.
;All of the following variables you shouldn't need to touch. They contain ←
    fields that the file
;requester sets and likes to preserve over calls, just to make life easier for ←
    the user.
STRUCT frq_Hide,WILDLENGTH+2 ; Wildcards for files to hide.

```

```

STRUCT frq_Show,WILDLENGTH+2 ; Wildcards for files to show.
WORD frq_FileBufferPos ; Cursor's position and first
WORD frq_FileDispPos ; displayed character number in
WORD frq_DirBufferPos ; the three string gadgets. No
WORD frq_DirDispPos ; need to initialized these if
WORD frq_HideBufferPos ; you don't want to.
WORD frq_HideDispPos
WORD frq_ShowBufferPos
WORD frq_ShowDispPos

; The following fields are PRIVATE! Don't go messing with them or
; wierd things may/will happen. If this isn't enough of a warning, go read
; the one in intuition.h, that should scare you off.

APTR frq_Memory ; Memory allocated for dir entries.
APTR frq_Memory2 ; Used for currently hidden files.
APTR frq_Lock ; Contains lock on directories being read across calls.
STRUCT frq_PrivateDirBuffer,DSIZE+2 ; Used for keeping a record of which
; directory we have file names for.
APTR frq_FileInfoBlock
WORD frq_NumEntries
WORD frq_NumHiddenEntries
WORD frq_filestartnumber
WORD frq_devicestartnumber
LABEL frq_SIZEOF

```

Enjoy!

Steve.

1.202 RIReqLib: Command Index

Command index for library RIReqLib

Library Main

Number of commands: 3

ReqFileLoc
ReqFileRequest
ReqOutput

1.203 RISortLib

```

-----
---- RI String Sort Library V1.3 (C) 94/95 ----
-----

```

Written By Stephen McNamara
©94/95 Leading Edge Software

Command Index

This library allows you to sort a linked list of items. It works only with linked lists, and at present can only sort items into alphabetical order based on a string in the item.

The sorting routine used in this library is very simple and crude. This library should not be used to sort in speed critical situations due to the inefficiency of the sorting method. The library will, though, be fast enough for most situations.

Command list:

```
StringSort linkedlist(),sizeof.type[,offset]
=ListBase (linkedlist)
StringSortItem linkedlist(),sizeof.type[,offset]
StringSortDir direction
```

1.204 RISortLib

Statement: StringSort

Modes : Amiga/Blitz

Syntax: StringSort linkedlist(),sizeof.type[,offset]

This is the basic sort command. Its first parameter is a linked list, the second is the sizeof each item in this list (e.g. the size of they type or newtype that each item is). The optional offset parameter allows you to specify an offset into each item, this offset should be the offset for the string you want to sort by. If the offset parameter is missing, an offset of 0 will be assumed.

This command sorts the whole of the linked list, starting from the very first item.

Example:

```
Newtype.listitem
  pad.w
  text$
End Newtype

Dim List myitems.listitem(10)

AddItem myitems() : myitems()\text="Hello"
AddItem myitems() : myitems()\text="World"

;Sort list myitems(), string is offset 2 from start of type
StringSort myitems(),SizeOf.listitem,2

ResetList myitems()
While NextItem(myitems())
  NPrint myitems()\text
Wend
```

```
MouseWait  
End
```

1.205 RISortLib

Function: ListBase

Modes : Amiga/Blitz

Syntax: ad.l=ListBase(linkedlist())

This command returns the base address of the linked list supplied. This address holds data for the linked list, and pointers to the first item and current item in the list. This command will not be of any use to most people, rather it is included for debugging purposes.

1.206 RISortLib

Statement: StringSortItem

Modes : Amiga/Blitz

Syntax: StringSortItem linkedlist(),sizeof.type[,offset]

This is basically the same command as StringSort except that this command sorts the linked list from the *current* list item rather than the first list item. Thus it can be used to only sort a part of a list. Apart from this the command is the same as StringSort.

1.207 RISortLib

Statement: StringSortDir

Modes : Amiga/Blitz

Syntax: StringSortDir direction

Set the direction of sorting. A direction of zero causes strings to be sorted into ascending order (smallest to largest), non-zero selects descending order (largest to smallest).

1.208 RISortLib: Command Index

Command index for library RISortLib

Library Main

Number of commands: 4

ListBase
StringSort
StringSortDir
StringSortItem

1.209 RIToolTypesLib

```
==== RI ToolTypes Library V1.2 (C)1994 =====
```

Written By Stephen McNamara
©1994 Leading Edge Software

Command Index

This library contains commands to allow the reading, comparing and setting of tooltypes in a .info file. All tooltype names are case insignificant but as a general sort of rule they should really be completely uppercase.

This library attempts to open the system Icon.library, if the opening of this library fails ALL commands in this library will be unusable. Almost every function in this library relies on the Icon.library completely.

Command list:

```
GetIconObject filename$
PutIconObject filename$[,icontype]
FreeIconObject
FindToolValue tooltype$
FindToolNumber toolnum#
MatchToolValue tooltype$,value$
PutToolValue tooltype$,value$
NewToolType tooltype$,value$
ClearToolTypes
```

New commands for this version:

```
SetIconHit width#,height#
ShapeToIcon shape#[,shape#]
SetIconType type#
IconRender value#
IconDefaultTool tool$
bool=FindToolType(tool$)
```

Changed commands:

FindToolValue - now returns "" if the tooltype was found but did not have a value (e.g. DONOTWAIT). You should now use FindToolType to check for the existence of a tooltype and then use FindToolValue to get its value.

PutIconObject - now has an optional parameter that lets you set the type of the file. See SetIconType for more information about possible values for this command.

1.210 RIToolTypesLib

Statement/Function: GetIconObject

Modes : Amiga

Syntax : GetIconObject filename\$
suc.l=GetIconObject (filename\$)

This command reads in a .info file from disk. The filename given will have '.info' added to the end of it and will be loaded into memory (chip or fast depending on what is available for allocation) as a diskobject. Please refer to the Amiga hardware includes for information about the diskobject structure (or see your Blitz Basic Amigalibs resident file).

If used as a function, this command will return either FALSE for failure or the address of the allocated diskobject in memory.

1.211 RIToolTypesLib

Statement/Function: PutIconObject

Modes : Amiga

Syntax : PutIconObject filename\$[,icontype]
suc.l=PutIconObject (filename\$)

This command takes a diskobject structure reserved and initialised by GetIconObject and saves it out to disk as a .info file for the specified file. All current tooltypes and values will be saved with the file.

The optional parameter allows you to set the type of the file associated with the .info file. See SetIconType for possible values for this parameter. Note that if you leave out this parameter the icontype will not be changed.

1.212 RIToolTypesLib

Statement/Function: FreeIconObject

Modes : Amiga

Syntax : FreeIconObject
suc.l=FreeIconObject

This command will free up the diskobject that is currently being used. It will not save out any tooltype changes and will free up the memory without ANY changes being made to the .info file loaded from disk.

All changes will be lost when you use this command!

1.213 RIToolTypesLib

Function: FindToolValue

Modes : Amiga

Syntax : toolval\$=FindToolValue(tooltype\$)

This function returns the value of the selected tooltype. The return value is a string, and is the part of the tooltype string after the "=" in the tooltype entry. The tooltype\$ string that you pass can be in either lower case or uppercase since all testing is done in uppercase, although as a general rule, all tooltypes should be in uppercase.

This function will return a null string if the named tooltype was not found in the list of tooltypes for the file. If the selected tooltype did not have an actual value (e.g. DONOTWAIT) then this function will also return a null string - you can though use a combination of this command and FindToolType to cover this situation.

1.214 RIToolTypesLib

Function: FindToolNumber

Modes : Amiga

Syntax : toolval\$=FindToolNumber(tooltype\$)

This command will return the FULL tooltype string in the selected tooltype position. If the tooltype number does not exist then "" will be returned.

Example: tooltypes: "DONOTWAIT"
 "CLOCKX=157"

FindToolNumber(0) will return "DONOTWAIT"

FindToolNumber(1) will return "CLOCKX"

FindToolNumber(49) will return ""

1.215 RIToolTypesLib

Function: MatchToolValue

Modes : Amiga

Syntax : suc.l=MatchToolValue(tooltype\$,value\$)

This command searches the current list of tooltypes for the selected tooltype and, if found, attempts to match the values of it with the given value. This command uses the operating system call MatchToolType(), it is able to cope with a tool having more than one value,

e.g. LANGUAGE=ENGLISH|FRENCH
(the | is used to show OR, thus this tooltype

means that LANGUAGE equals ENGLISH or FRECH)
When using match toolvalue with this tooltype, TRUE will be returned when you use value\$="ENGLISH" or "FRENCH" but not (I think) both.

You should note that for this command, the case of VALUE\$ is insignificant.

1.216 RIToolTypesLib

Statement/Function: SetToolValue

Modes : Amiga
Syntax : SetToolValue tooltype\$,value\$
suc.l=SetToolValue (tooltype\$,value\$)

This command will attempt to set a tooltype that is currently defined to the specified value. When used as a function, this command will return TRUE for success or FALSE for failure, possible failures include: no icon file loaded and tooltype not found. When used, this command attempts to allocate memory to store the new tooltype information in, it does not attempt to free up the old memory allocated to the tooltype. This means that you should keep alterations of tooltypes to a minimum. The best way to manage tooltypes is:

1. Open the icon
2. Read the tooltypes
3. Close the icon
4. ... do your program ...
5. Open the icon
6. Alter the tooltypes
7. Save the icon

Using this series of events, you'll keep memory usage (which will be fairly small anyway...) to the very minimum.

1.217 RIToolTypesLib

Statement/Function: NewToolType

Modes : Amiga
Syntax : NewToolType tooltype\$,value\$
suc.l=NewToolType (tooltype\$,value\$)

This command allocates a new tooltype in the currently loaded .info file and sets its value. No check is done to see if the tooltype already exists and the new tooltype is added to the end of the current list of tooltypes.

1.218 RIToolTypesLib

Statement: ClearToolTypes

Modes : Amiga

Syntax : ClearToolTypes

This command is used to clear all the tooltype information from the currently loaded .info file. It does not attempt, though, to free up all the memory reserved to store tooltype names and values, you should therefore not use this command too many times in a row. Once you have used this command, any attempt to read tooltype values will fail.

1.219 RIToolTypesLib

Statement: SetIconHit

Modes : Amiga

Syntax : SetIconHit width#,height#

This command sets the size of the 'hit-box' around the image in the currently loaded .info file. This is only of use if your info file has an image associated with it. You should note that the hit box should never be smaller, horizontally or vertically, than the actual size of the image.

When Workbench renders an image for a file onto a window, it automatically puts a 3d box border around it. The size of the hit box determines the size of this border. Your image will always be located in the top left border of the hit box.

1.220 RIToolTypesLib

Statement: ShapeToIcon

Modes : Amiga

Syntax : ShapeToIcon shape#[,shape#]

This command lets you change the images associated with the currently loaded .info file. What it does is to set up the .info file in memory so that when it is saved out next, the images you give are saved out with it. Using this command does not actually copy any shape data around memory, all it does is place a pointer in the .info to the shape data. You should therefore not delete a shape WITHOUT first saving the .info file to disk (that is of course if you want to keep your changes).

When you use this command, the hit box area for the .info file is automatically set to the size of the first shape given. It is important, therefore, that the second shape is not larger than the first. When you give a second shape, this shape is set up to be the 'alternate render' image, this means that this is the second image associated with the .info file (remember the two windows in the IconEditor?)

1.221 RIToolTypesLib

Statement: SetIconType

Modes : Amiga

Syntax : SetIconType type#

This command lets you specify the type of the file associated with the currently loaded .info file. The type describes whether or not the file is a tool or project etc...., and can take the following values:

- 1 Disk
- 2 Drawer
- 3 Tool
- 4 Project
- 5 Trashcan

This command is identical to the menu in the IconEditor 'Type'.

1.222 RIToolTypesLib

Statement: IconRender

Modes : Amiga

Syntax : IconRender mode#

This command lets you specify what Workbench should do to the icons image when the user clicks on it. It lets you choose whether a separate image should be displayed or whether the current image should just be modified. Mode# is made up of several different values that should be added together to create different effects, these are:

- 0 Complement the select box
- 1 Draw a box around the image
- 2 Draw the alternate image
- 3 Don't highlight
- 4 Double image icon

Thus if you wanted an icon to change to a second image when selected, and the icon has a second image, you would set the render to 6 (4+2). This would mean that you had a second image (4) and that you wanted it to be displayed when you select the icon (2).

Note: when you use ShapeToIcon with two shape numbers the IconRender is automatically set to 6.

1.223 RIToolTypesLib

Statement: IconDefaultTool

Modes : Amiga

Syntax : IconDefaultTool tool\$

This command lets you set the default tool for the current .info file. The default tool only applies for project files (see SetIconType) and is the program that is run when you double click the icon file (e.g. all Blitz2 source code files saved out with icons have the default tool 'Blitz2:Blitz2').

This command can be used to make a file saved out by your program double-clickable. I have used it myself to make map files saved out from my editor automatically load the editor when selected.

1.224 RIToolTypesLib

Statement: FindToolType

Modes : Amiga

Syntax : bool=FindToolType (tool\$)

This command simply returns true or false to say whether or not the given tooltype was found in the currently loaded .info file.

>>END

1.225 RIToolTypesLib: Command Index

Command index for library RIToolTypesLib

Library Main

Number of commands: 15

ClearToolTypes	FindToolNumber
FindToolType	FindToolValue
FreeIconObject	GetIconObject
IconDefaultTool	IconRender
MatchToolValue	NewToolType
PutIconObject	SetIconHit
SetIconType	SetToolValue
ShapeToIcon	

1.226 RITrackDiskLib

==== RI TrackDisk Library V1.2 (C)1994 =====

Written By Steven Matty
©1994 Leading Edge Software

Command Index

Command List:

```

success=OpenDisk(unit#)
MotorOn unit#
MotorOff unit#
CloseDisk unit#
success=ReadSector(unit#,sector#,buffer[,numsectors])
success=WriteSector(unit#,sector#,buffer[,numsectors])
success=FormatTrack(unit#,track#,buffer[,numtracks])
success=WriteBoot(unit#[,bootdata])

```

1.227 RITrackDiskLib

Statement/Function : OpenDisk

Modes : Amiga

Syntax : success=OpenDisk(unit#)

This attempts to open unit 'unit#' of the trackdisk.device, for use with the other Statement/Functions in this library. A return value of 0 indicates failure, ←
-1 indicates success.

1.228 RITrackDiskLib

Statement : MotorOn

Modes : Amiga

Syntax : MotorOn unit#

This attempts to switch the drive motor on of the previously opened trackdisk unit (called with OpenDisk). You must call this Statement/Function before attempting to ReadSector/WriteSector/FormatTrack/WriteBoot

1.229 RITrackDiskLib

Statement : MotorOff

Modes : Amiga

Syntax : MotorOff unit#

This turns the drive motor of 'unit#' off.

1.230 RITrackDiskLib

Statement/Function : ReadSector

Modes : Amiga

Syntax : [success=]ReadSector(unit#,sector#,buffer[,numsectors])

This attempts to read 'numsectors' sectors from a trackdisk device which has been opened with OpenDisk and has its Motor On. If numsectors is omitted then 1 sector is read. The data is read into the memory location pointed to by 'buffer'.

WARNING! Please MAKE SURE the MOTOR is _ON_ otherwise, all hell will break loose!!!

1.231 RITrackDiskLib

Statement/Function : WriteSector

Modes : Amiga

Syntax : [success=]WriteSector(unit#,sector#,buffer[,numsectors])

This is the same as ReadSector except..... it writes!
(and no, I am not being lazy by not typing any decent docs)

1.232 RITrackDiskLib

Statement/Function : FormatTrack

Modes : Amiga

Syntax : [success=]FormatTrack(unit#,track#,buffer[,numtracks])

This does a TD_FORMAT on the specified track number. Buffer should point to the area of memory which the track should be formatted with. I don't know why this Statement/Function exists - but hey, it might come in useful.

1.233 RITrackDiskLib

Statement/Function : WriteBoot

Modes : Amiga

Syntax : [success=]WriteBoot(unit#[,buffer])

This writes 1k of data to the bootblock of the specified disk unit. The optional buffer parameter should point to an area of memory with which to write the bootblock.

1.234 RITrackDiskLib

Statement : CloseDisk

Modes : Amiga

Syntax : CloseDisk unit#

This closes the trackdisk.device of the specified unit#. The Motor is automatically switched off if it is already on.

1.235 RITrackDiskLib: Command Index

Command index for library RITrackDiskLib

Library Main

Number of commands: 8

CloseDisk
FormatTrack
MotorOff
MotorOn
OpenDisk
ReadSector
WriteBoot
WriteSector

1.236 RIZoneJoyLib

==== RI ZoneJoy Library V1.5 (C)1994/95 =====

Joystick Routines Written By Steven Matty
Zone Routines Written By Stephen McNamara
©1994 Leading Edge Software

Command Index

This library contains commands for setting up zones and testing the status of the joysticks attached to the Amiga.

New additions to this library allow you to have multiple lists of zones (referred to as zonetables in this doc). To maintain compatibility with older versions of the library, zonetable 0 is equivalent of the original list of zones used in the library. You cannot adjust the size of zonetable 0 (its size is 256 zones), nor can you delete it. The new zonetables can be from 1 to 65536 in size, there are 16 available zonetable numbers.

All commands that change or test zones will work on the last zonetable that was selected with the command UseZoneTable. The default table is number 0.

Command list:

```
ZoneInit [zone_num] |[start_zone,end_zone]
Setzone zone#,x1,y1,radius
Setzone zone#,x1,y1,x2,y2
a.w=Zone(x,y)
a.w=ZoneTest(start_zone[,end_zone],x,y)
ad.l=ZoneTable
size.l=ZoneTableSize (table#)
UseZoneTable table#
NewZoneTable table#,size
FreeZoneTable table#

jf.b=JFire(joy#)
jv.b=JVert(joy#)
jh.b=JHoriz(joy#)
af.b=AllFire [bit_pattern]
```

Additions for this version (1.5):

```
JAdaptorStatus On/Off
x1=GetZoneX1(zone#)
y1=GetZoneY1(zone#)
x2=GetZoneX2(zone#)
y2=GetZoneY2(zone#)
```

1.237 RIZoneJoyLib

Statement: ZoneInit

 Modes : Amiga/Blitz
 Syntax : ZoneInit [zone_num] |[start_zone,end_zone]

This command is used to clear any zones currently set. The optional parameters allow you to select either a single zone or a range of zones to reset.

1.238 RIZoneJoyLib

Statement/Function: Setzone

 Modes : Amiga/Blitz
 Syntax : Setzone zone#,x1,y1,radius
 Setzone zone#,x1,y1,x2,y2

This command lets you set up zones for testing. The first version is used when you want to set up a circular zone and the second when you want a rectangular one. With rectangular zones, x1,y1 should be the top left corner of the rectangle and x2,y2 should be the bottom left.

If used as a function, this command returns TRUE or FALSE to say whether

or not the change was made.

Note: The max zone number for zonetable 0 is 255.

A zone number outside the range of the current table will cause this command to abort.

Zones can be defined in any order.

Circular zones are used in exactly the same way as rectangular ones.

1.239 RIZoneJoyLib

Function: Zone

Modes : Amiga/Blitz

Syntax : a.w=Zone(x,y)

This command takes the co-ordinates x,y and checks to see if they are inside any of the defined zones. The zones are searched in order, starting at 0 and going through to the size of the zonetable-1. This command will return the first zone that the co-ordinates were found to be inside, you should note that both types of zones are tested (rectangular and circular).

This command returns either -1 for not inside a zone or the zone number.

1.240 RIZoneJoyLib

Function: ZoneTest

Modes : Amiga/Blitz

Syntax : a.w=ZoneTest(start_num[,end_num],x,y)

This command is the same as the Zone command except that it allows you to select either one individual zone to test or a range of zones. You should, though, ensure that end_num is greater than start_num.

This command returns either -1 for not inside a zone or the zone number.

1.241 RIZoneJoyLib

Function: ZoneTable

Modes : Amiga/Blitz

Syntax : ad.l=ZoneTable

This function returns the address in memory of the zone information storage area for the current zonetable. The zones are stored one after

the other, with each zone taking up 8 words (16 bytes) in the data area, making a total size of 2048 bytes. They are stored in the following way:

```
Rectangular:    +0: x1
                +2: y1
                +4: x2
                +6: y2

Circular: +0: x1
          +2: y1
          +4: radius of zone
          +6: -1 <-- this is set to show that the
                  zone is circular.

Undefined zone: +0: -1
                +2: -1
                +4: -1
                +6: -1
```

The first longword (4 bytes) of the zonetable is used to hold the size, in zones, of the table (thus the true size of the zonetable is 4+number of zones*8).

1.242 RIZoneJoyLib

Function: ZoneTableSize

 Modes : Amiga/Blitz
 Syntax : size.l=ZoneTableSize

This function returns the size, in zones, of the current zonetable. It is equivalent of doing: size.l=peek.l(ZoneTable).

1.243 RIZoneJoyLib

Statement/Function: NewZoneTable

 Modes : Amiga/Blitz
 Syntax : NewZoneTable table#,size

This command will attempt to allocate a new zonetable with the given table number. If the table already exists it will be deleted. The maximum size for a zonetable is 65536 zones. If used as a function, this command will return FALSE for failure or TRUE for success. You should note that all zones are automatically reset in the new table and that creating a table does not make it the current table, this must be done with UseZoneTable.

Valid zonetable numbers range from 0 to 15.

IMPORTANT NOTE: you cannot define the size of zonetable 0. You cannot

use this command to alter it in any way.

1.244 RiZoneJoyLib

Statement/Function: UseZoneTable

Modes : Amiga/Blitz
Syntax : UseZoneTable table#

This command is used to change the current zonetable to the selected one. If used as a function, it will return TRUE for success or FALSE for failure.

Valid zonetable numbers range from 0 to 15.

1.245 RiZoneJoyLib

Statement/Function: FreeZoneTable

Modes : Amiga/Blitz
Syntax : FreeZoneTable table#

This command is used to free a zonetable from memory. If used as a function, it will return TRUE or FALSE. When successfully called, this command will free the zonetable and change the currently used zonetable to table number 0.

Valid zonetable numbers range from 0 to 15.

IMPORTANT NOTE: you cannot free zone table 0.

1.246 RiZoneJoyLib

Function: JFire

Modes : Amiga/Blitz
Syntax : jf.b=JFire(joy#)

This command tests the fire button status of the joystick joy#, where joy# is between 1 and 4. You should note that, as with all the joystick commands, joy#=1 refers to the Amiga's joystick port, joy#=2 refers to the mouse port, and joy#=3 or joy#=4 refer to the four player adapter ports.

This command returns 0 for fire button not pressed or -1 for pressed

1.247 RIZoneJoyLib

Function: JHoriz

Modes : Amiga/Blitz
Syntax : jh.b=JHoriz(joy#)

This command is used to test the horizontal direction of the selected joystick. It returns:

0: No horizontal direction
-1: Joystick left
1: Joystick right

1.248 RIZoneJoyLib

Function: JVert

Modes : Amiga/Blitz
Syntax : jv.b=JVert(joy#)

This command is used to test the vertical direction of the selected joystick. It returns:

0: No vertical direction
-1: Joystick up
1: Joystick down

1.249 RIZoneJoyLib

Function: AllFire

Modes : Amiga/Blitz
Syntax : af.b=AllFire [(bit_pattern)]

This command is used to test the fire button status of all four joysticks. It returns a byte with the first four bits giving the joystick status, false=fire button not pressed, true=fire button pressed. The following bits belong to joysticks:

bit 0: joystick 1 (joystick port)
bit 1: joystick 2 (mouse port)
bit 2: joystick 3 (four player adaptor)
bit 3: joystick 4 (four player adaptor)

The optional bit pattern can be used to restrict the testing of the fire buttons. If a bit in the pattern is clear (false) then the joystick it belongs to will not have its fire button tested,

e.g. AllFire (%0011) will test joysticks 1 and 2 and return the

result. It will return false for joysticks 3 and 4.

1.250 RIZoneJoyLib

Statement/Function: JAdaptorStatus

Modes : Amiga/Blitz
Syntax : JAdaptorStatus On/Off
oldstatus=JAdaptorStatus(On/Off)

This command toggles the reading of the four player adaptor for the following commands:

AllFire
Jvert
JHoriz
JFire

When the status is off, these commands will return 0 when you attempt to read from joysticks 3 and 4. When on the testing will be performed normally. Default status for the adaptor is on.

1.251 RIZoneJoyLib

Function: GetZoneX1

Modes : Amiga/Blitz
Syntax : x1=GetZoneX1 (zone#)

This command returns the x start position for the specified zone in the currently used zone table. If the zone number supplied goes outside the size of the zonetable, then this command returns -1. It also returns -1 if the zone is undefined.

1.252 RIZoneJoyLib

Function: GetZoneY1

Modes : Amiga/Blitz
Syntax : y1=GetZoneY1 (zone#)

This command returns the y start position for the specified zone in the currently used zone table. If the zone number supplied goes outside the size of the zonetable, then this command returns -1. It also returns -1 if the zone is undefined.

1.253 RiZoneJoyLib

Function: GetZoneX2

Modes : Amiga/Blitz

Syntax : x2=GetZoneX2 (zone#)

This command returns the x end position for the specified zone in the currently used zone table. If the zone number supplied goes outside the size of the zonetable, then this command returns -1. It also returns -1 if the zone is undefined.

Note: For circular zones, this command will return the radius of the circle squared.

1.254 RiZoneJoyLib

Function: GetZoneY2

Modes : Amiga/Blitz

Syntax : y2=GetZoneY2 (zone#)

This command returns the y end position for the specified zone in the currently used zone table. If the zone number supplied goes outside the size of the zonetable, then this command returns -1. It also returns -1 if the zone is undefined.

Note: For circular zones this command will always return -1

Version details:

27/1/95

- V1.5
- Fixed comparison prob in both 'circular:', changed BPL into BGE.
- Fixed __zonetest000 - was getting x1,y,x2,y2 in wrong order
- Fixed __zonetest020 circular zones - same prob as above
- Added:
 - GetZoneX1/X2/Y1/Y2 for zone interrogating...

25/1/95

- Added JAdaptorStatus for disabling/enabling player 3 & 4 joystick reading. If disabled, commands will return 0 for these joysticks.
- Added fourplayer checking to AllFire.

23/11/94

- BIG bug in ZoneInit2 - was moving #0 into (a1) instead of (a0)

3/9/94

- Added 020 specific zone testing
- Added commands ZoneMode and SetZoneMode (for 020 support)

- Speed increase on Jfire: replaced branches and moveqs with SEQ
- Improved jvert and jhoriz to remove inefficiency

>>END

1.255 RIZoneJoyLib: Command Index

Command index for library RIZoneJoyLib

Library Main

Number of commands: 18

AllFire	FreeZoneTable
GetZoneX1	GetZoneX2
GetZoneY1	GetZoneY2
JAdaptorStatus	JFire
JHoriz	JVert
NewZoneTable	Setzone
UseZoneTable	Zone
ZoneInit	ZoneTable
ZoneTableSize	ZoneTest

1.256 Library Index

Libraries included in database: 18

Total number of commands: 218

RIAmosFuncLib	RIAnimLib
RIAppLib	RICommoditiesLib
RICompactDiskLib	RICopperFXLib
RIDebugLib	RIEncryptLib
RIFNSLib	RIFxLib
RIGfxLib	RIListLib
RIPackLib	RIReqLib
RISortLib	RIToolTypesLib
RITrackDiskLib	RIZoneJoyLib

Full Command List

1.257 Full Command List

Full Command List

AddAppIcon
AddAppMenu
AddAppWindow

AddFirstListItem
AddLastListItem
AddListItem
AddrListItem
ADDValue
AddVarTrace
AGAFillPalette
AGAPalBlue
AGAPalGreen
AGAPalRed
AllFire
AnimLoop
AppEvent
AppEventCode
AppEventID
AppFile
AppNumFiles
BlitterDone
BlitterNasty
BLoad
BSave
CDDoor
CDFastForward
CDFirstTrack
CDFlush
CDLastTrack
CDNormalSpeed
CDNumTracks
CDPause
CDPlayTrack
CDReadTOC
CDRewind
CDSpeed
CDStatus
CDStop
CDTrackLength
CDTrackMins
CDTrackPlaying
CDTrackSecs
CDUpdateInfo
CDVolume
ChunkHeader
ClearBitmap
ClearToolTypes
CloseCD
CloseDisk
CludgeShapes
CludgeSound
CommodityEvent
CopperAGACol
CopperCommand
CopperEnd
CopperInfoBlock
CopperMove
CopperReset
CopperSkip
CopperTrace

CopperWait
CopyByte
CopyColour
CopyLong
CopyWord
CPUCl
CxAppear
CxChangeList
CxDisable
CxDisAppear
CxEnable
CxCill
CxUnique
Decrypt
DeIce
DelAppIcon
DelAppMenu
DelAppWindow
DelListItem
DelVarTrace
Derez
DeviceName\$
DisAsmWindow
DoColSplit
Encrypt
Erase
EraseAll
ExchangeAppear
ExchangeChangeList
ExchangeDisable
ExchangeDisAppear
ExchangeEnable
ExchangeKill
ExchangeMessage
ExchangeUnique
FadeInBitmap
FileSize
FillMem
FillPalette
FindToolNumber
FindToolType
FindToolValue
FindVolume
FirstListItem
FNSClip
FNSClipOutput
FNSHeight
FNSInk
FNSLength
FNSLoad
FNSOrigin
FNSOutput
FNSPrefs
FNSPrint
FNSSetTab
FNSSlot
FNSUnderline

FNSUnLoad
FNSVersion
FNSWidth
FormatTrack
FreeIconObject
FreeZoneTable
FuncLibVersion
GetCCOffset
GetIconObject
GetListItem
GetWheel
GetZoneX1
GetZoneX2
GetZoneY1
GetZoneY2
HotKeyHit
IconDefaultTool
IconRender
ILBMGrab
ILBMPalette
InitList
InitZoomXY
InstallFNS
JAdaptorStatus
JFire
JHoriz
JVert
KeyCode
LastListItem
Length
Lisa
ListBase
LoadIFF
MakeCommodity
MakeDir
MatchToolValue
Max/Min
MemFree
MotorOff
MotorOn
NewToolType
NewZoneTable
NextAppFile
NextBank
NextListItem
OpenCD
OpenDisk
PalAdjust
PalBlue
PaletteInfo
PalGreen
PalRed
PLoad
PrevListItem
ProcControl
PutIconObject
ReadSector

Reboot
RedoColSplit
ReduceX2
RemoveFNS
Rename
ReqFileLoc
ReqFileRequest
ReqOutput
Reserve
ResetTimer
RIAnimFrameCount
RIAnimInit
RINextAnimFrame
SaveCMAP
SetHotKey
SetIconHit
SetIconType
SetListItem
SetStatus
SetToolValue
Setzone
ShapeToIcon
Start
StringSort
StringSortDir
StringSortItem
This function no longer returns the number of files
Timer
UnpackIFF
UseZoneTable
VarTraceWindow
WaitBlitter
WriteBoot
WriteSector
XOR
Zone
ZoneInit
ZoneTable
ZoneTableSize
ZoneTest
ZoomX2
ZoomX4
ZoomX8
ZoomXY
