

Window

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Window

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Chapter 1

Window

1.1 Window V1.00

Pure Basic Window library V1.00

Windows are essentials component of modern interfaces. Pure Basic provide you a full access to them.

Commands summary:

ActivateWindow

BusyPointer

CloseWindow

DetachGadgetList

DetachMenu

EventCode

EventGadget

EventID

EventQualifier

EventWindow

InitWindow

MoveWindow

OpenWindow

SizeWindow

UseWindow

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WindowEvent

WindowID

WindowInnerHeight

WindowInnerWidth

WindowWidth

WindowHeight

WindowX

WindowY

WindowRastPort

WindowMouseX

WindowMouseY
Example:

Window

1.2 eventcode

```
SYNTAX
Code.l = EventCode()

COMMAND
After a WindowEvent() result, check this function to determine whether
gadgtools gadget has been activated.

ie: If the Gadget is:

+ CheckBox: EventCode() returns 1 or 0, to reflect the checkBox state
+ Palette : EventCode() returns the colour number that has been checked
+ Integer : EventCode() returns the number contained by the gadget
+ Option : EventCode() returns the index of the selected option
+ ListView: EventCode() returns the index of the selected item
+ Slider : EventCode() returns the current position of the slider
```

1.3 eventgadget

```
SYNTAX
#Gadget = EventGadget()

COMMAND
After a WindowEvent() result, check this function to determine which
gadget has been pushed (return the gadget number)
```

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1.4 eventwindow

```
SYNTAX
#Window = EventWindow()

COMMAND
After a WindowEvent() result, check this function to determine on which window the event has occur.
```

1.5 waitwindowevent

```
SYNTAX
IDCMP.1 = WaitWindowEvent
FUNCTION
```

1.6 windowevent

```
SYNTAX
IDCMP.l = WindowEvent()
  FUNCTION
Check if an event has occur on any of the open windows. To get the window number
in which the event occurred, you need to use the EventWindowID()
function.
Most used IDCMP are: #IDCMP_GADGETUP (a gadget is pressed)
                     #IDCMP_CLOSEWINDOW (window's closegadget is pushed)
                     #IDCMP_MENUPICK (a menu has be chosen)
For a full list and definition of IDCMP, look here:
               IDCMP
                Example:
InitWindow(0)
InitTagList(2)
ResetTagList(#WA_IDCMP, #IDCMP_CLOSEWINDOW | #IDCMP_MENUPICK | #IDCMP_GADGETUP)
      AddTag(#WA_Flags, #WFLG_CLOSEGADGET)
If OpenWindow(0, 100, 100, 100, 100, TagListID())
  Repeat
    Repeat
      VWait()
      IDCMP.l = WindowEvent()
    Until IDCMP
  Until IDCMP = #IDCMP_CLOSEWINDOW
```

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```
Endif
```

End

1.7 detachgadgetlist

```
SYNTAX
DetachGadgetList()

STATEMENT
Detach the current window's gadgetlist (if any). Note that the window display isn't refreshed, so you can still see the gadgets, but you can't push them any more (it's only the imagery which is visble).

You can use a combination of DetachGadgetList()/AttachGadgetList() to change 'on the fly' a window gadgetlist.
```

1.8 eventid

```
SYNTAX
EventID = EventID()

FUNCTION
Returns the last gadget/menu number that was selected.
```

1.9 openwindow

```
SYNTAX
WindowID.1 = OpenWindow(#Window, x, y, Width, Height, TagList)
Opens a new window according to the specified taglist. The new
window becomes the used window. You don't need to use the UseWindow()
command to set it. If the WindowID is NULL, the window can't be opened.
Available tags:
  #WA_Left
  #WA_Top
  #WA_Width
  #WA_Height
                  - NOTE: only overrides NewWindow.DetailPen of -1!
  #WA_DetailPen
  #WA_BlockPen
                   - NOTE: only overrides NewWindow.BlockPen of -1!
  #WA_IDCMP
                   - initial values for Flags before looking at other
  #WA_Flags
                     Boolean component Tag values
  #WA_Gadgets
```

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```
#WA Title
#WA_CustomScreen - also implies CUSTOMSCREEN property
#WA_SuperBitMap - also implies #WFLG_SUPER_BITMAP refresh mode.
#WA MinWidth
#WA MinHeight
#WA_MaxWidth
#WA_MaxHeight
These Boolean tag items are alternatives to the NewWindow.Flags
Boolean attributes with similar names.
#WA_SizeGadget
                     - equivalent to #WFLG_SIZEGADGET
#WA_DragBar
                     - equivalent to #WFLG_DRAGBAR
#WA_DepthGadget

    equivalent to #WFLG_DEPTHGADGET

#WA_CloseGadget

    equivalent to #WFLG_CLOSEGADGET

#WA_Backdrop
                    - equivalent to #WFLG_BACKDROP

    equivalent to #WFLG_REPORTMOUSE

#WA_ReportMouse
#WA_NoCareRefresh - equivalent to #WFLG_NOCAREREFRESH #WA_Borderless - equivalent to #WFLG_BORDERLESS
#WA Activate
                    - equivalent to #WFLG_ACTIVATE
#WA RMBTrap
                    - equivalent to #WFLG_RMBTRAP
#WA WBenchWindow
                    - equivalent to #WFLG_WBENCHWINDOW
              (system PRIVATE)
#WA_SimpleRefresh - only specify if TRUE
#WA_SmartRefresh
                    - only specify if TRUE
                   - equivalent to #WFLG_SIZEBRIGHT
#WA_SizeBRight
#WA_SizeBBottom - equivalent to #WFLG_SizeBBOTTOM
                    equivalent to #WFLG_GIMMEZEROZERO
#WA_GimmeZeroZero
#WA_NewLookMenus - equivalent to #WFLG_NEWLOOKMENUS
The following tag items specify new attributes of a window.
#WA_ScreenTitle - You can specify the screen title associated
   with your window this way, and avoid a call to SetWindowTitles()
    when your window opens.
#WA_AutoAdjust - a Boolean attribute which says that it's OK
    to move or even shrink the dimensions of this window
    to fit it on the screen, within the dimension
    limits specified by MinWidth and MinHeight.
   Someday, this processing might be sensitive to the
    currently visible portion of the screen the window
    will be opening on, so don't draw too many conclusions
    about the auto-adjust algorithms.
    (Normally, this attribute defaults to FALSE. However,
    if you call OpeWindowTags() or OpeWindowTagList()
   with a NULL NewWindow pointer, this attribute defaults
   to TRUE).
#WA_InnerWidth
#WA_InnerHeight - You can specify the dimensions of the interior
    region of your window, independent of what the border
    thicknesses will be. You probably want to specify
    #WA_AutoAdjust to allow Intuition to move your window
    or even shrink it so that it is completely on screen.
```

Note: using these tags puts some reasonable restrictions

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on the gadgets you can specify as "border" gadgets when you open your window. Since border gadgets determine the border dimensions and hence the overall dimensions of your window, those dimensions cannot be used calculating the position or dimensions of border gadgets.

Here's the complete list of restrictions:

- $\#GACT_LEFTBORDER$ gadgets cannot be GFLG_RELWIDTH if $\#WA_InnerWidth$ is \hookleftarrow used.
- #GACT_RIGHTBORDER gadgets MUST be GFLG_RELRIGHT if #WA_InnerWidth is \longleftrightarrow used.
- $\#GACT_TOPBORDER$ gadgets cannot be GFLG_RELHEIGHT if $\#WA_InnerHeight$ is \longleftrightarrow used.
- #GACT_BOTTOMBORDER gadgets MUST be GFLG_RELBOTTOM if #WA_InnerHeight is \longleftrightarrow used.
- #WA_PubScreenName This tag item declares that you want your window to open as a visitor window on the public screen whose name is pointed to by (UBYTE *) ti_Data.
- #WA_PubScreen Open as a visitor window on the public screen
 whose address if provided as (struct Screen *) ti_Data.
 To ensure that this screen remains open long enough, you
 must either:
 - 1) Be the screen's owner
 - 2) have another window already open on the screen
 - 3) use LockPubScreen()

Using exec.library/Forbid() is not sufficient.

You can provide ti_Data to be NULL (zero), without any of the above precautions, to specify the default public screen.

- #WA_PubScreenFallBack This Boolean attribute specifies that a visitor window should "fall back" to opening on the default public screen if the explicitly specify public screen is not available.
- #WA_WindowName this visionary specification of a window rendezvous name string is not yet implemented.
- #WA_Colors this equally great idea about associating a palette specification with the active window may not ever be implemented.
- #WA_Zoom ti_Data points to an array of four WORD's to be used
 as the initial Left/Top/Width/Height of the "alternate
 Zoom position and dimensions." The presence of this tag
 item implies that you want a Zoom gadget, even though you
 might not have a sizing gadget.
 New for V39: if the initial zoom-box left and top are
 both set to ~0, then Intuition will give your window
 "size-only" zooming, meaning that zooming the window
 will not affect the left/top unless the window needs
 to be moved on-screen.
- #WA_MouseQueue This tag specifies a limit for the number of outstanding IDCMP_MOUSEMOVE IntuiMessages that Intuition will send to your window. You can change the value of this

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- limit after the window is open using SetMouseQueue().
- #WA_RptQueue This tag specifies a limit for the number of outstanding repeated-IDCMP_RAWKEY, repeated-IDCMP_VANILLAKEY, and repeated-IDCMP_IDCMPUPDATE IntuiMessages that Intuition will send to your window. Currently, there is no function to adjust the repeat-key queue.
- #WA_BackFill ti_Data is a pointer to a Hook structure that
 the Layers library will call when your window needs
 "backfilling." See layers.library/InstallLayerHook().
- #WA_MenuHelp ti_Data is a boolean. If true, enables the MenuHelp feature for this window. See IDCMP_MENUHELP above. (V37)
- #WA_NotifyDepth ti_Data is a boolean. Set to true if you
 would also like IDCMP_CHANGEWINDOW events sent to your window
 when it is depth-arranged. Normally, such events are only
 sent for movement or resizing of the window.
 IDCMP_CHANGEWINDOW events originating from
 depth-arrangement have a Code equal to CWCODE_DEPTH, as
 opposed to CWCODE_MOVESIZE. (V39)
- #WA_Checkmark (ti_Data is struct Image *) Image to use as a
 checkmark in menus. Prior to V39, or if #WA_NewLookMenus
 is not specified, the default will be the traditional
 checkmark in the original colors. Under V39 and higher,
 if you have requested #WA_NewLookMenus then the default will
 be an appropriately colored checkmark scaled to the screen's
 font. Alternately, you can provide a custom one, which you
 can~design yourself or get from sysiclass (use this if
 your menu-font is different from the screen's font).
- #WA_AmigaKey (ti_Data is struct Image *) Image to use as
 the Amiga-key symbol in menus. If #WA_NewLookMenus is not
 specified, the default will be the traditional Amiga-key
 symbol in the original colors. If you've requested
 #WA_NewLookMenus, then the default will be an appropriately
 colored Amiga-key scaled to the screen's font.
 Alternately, you can provide a custom one, which you can
 design yourself or get from sysiclass (use this if your
 menu-font is different from the screen's font). (V39)
- #WA_BusyPointer (BOOL) Set to TRUE to request the Preferences busy-pointer. If FALSE, your pointer will be as requested by #WA_Pointer. Defaults to FALSE. This tag is also recognized by SetWindowPointerA(). (V39)
- #WA_PointerDelay (BOOL) Set to TRUE to defer changing your pointer for a brief instant. This is typically used along

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with setting the busy pointer, especially when the application knows it may be busy for a very short while. If the application clears the pointer or sets another pointer before the delay expires, the pending pointer change is cancelled. This reduces short flashes of the busy pointer. This tag is also recognized by SetWindowPointerA(). (V39)

- #WA_HelpGroup (ULONG) Normally, only the active window can receive IDCMP_GADGETHELP messages. However, an application with multiple windows will want all its windows to be able to receive help when any of them are active. First obtain a unique help ID with utility.library/GetUniqueID(), then pass it as ti_Data of this tag to all your windows. See HelpControl(). (V39)
- #WA_HelpGroupWindow (struct Window *) Instead of using
 #WA_HelpGroup, you can pass a pointer to another window
 whose HelpGroup you wish this window to belong to. (V39)
- #WA_TabletMessages (BOOL) Set to TRUE to request extended IntuiMessages for your window. If a tablet driver is generating IESUBCLASS_NEWTABLET input events, you will be able to receive extended tablet information with most IntuiMessages. See the eim_TabletData field of the ExtIntuiMessage structure. Defaults to FALSE. (V39)

1.10 windowmousex

```
SYNTAX
x.w = WindowMouseX()
```

FUNCTION

Returns the mouse position relative to the left of the current window. Values can be positive or negative.

1.11 windowmousey

```
SYNTAX
y.w = WindowMouseY()
```

FUNCTION

Returns the mouse position relative to the top of the current window. Values can be positive or negative.

1.12 windowwidth

```
SYNTAX
width.w = WindowWidth()
FUNCTION
```

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Return the width, in pixels, of the current window.

1.13 windowheight

```
SYNTAX
height.w = WindowHeight()

FUNCTION
Returns the height, in pixels, of the current window.
```

1.14 windowx

```
SYNTAX
x.w = WindowX()

FUNCTION
Returns the left position, in pixels, of the current window.
```

1.15 windowy

```
SYNTAX
y.w = WindowY()

FUNCTION
Returns the top position, in pixels, of the current window.
```

1.16 windowrastport

```
SYNTAX
rastport.l = WindowRastPort()

FUNCTION
Returns the rastport of the current window.
```

1.17 movewindow

```
SYNTAX \label{eq:moveWindow} \mbox{MoveWindow}(x,y) \\ \mbox{STATEMENT} \\ \mbox{Move the window to the specified coordinates.}
```

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1.18 sizewindow

```
SYNTAX
SizeWindow(width, height)

STATEMENT
Resize the window to the given dimensions.
```

1.19 activatewindow

```
SYNTAX
ActivateWindow()

STATEMENT
Activate the current window.
```

1.20 usewindow

```
SYNTAX
UseWindow(#Window)

STATEMENT
Make the given window, the currently-used window.
```

1.21 closewindow

```
SYNTAX
CloseWindow(#Window)
STATEMENT
Close the given window.
```

1.22 initwindow

```
SYNTAX
result.l = InitWindow(#NumWindowMax)

FUNCTION
Init all the Window environments for later use. You must put this function at the top of your source code if you want to use the Window commands. You can test the result to see if the Window environment is correctly initialized.
```

#NumWindowMax : Maximum number of windows to handle.

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1.23 windowid

```
SYNTAX
WindowID.1 = WindowID()

FUNCTION
Returns the Intuition Window pointer.
```

1.24 busypointer

```
SYNTAX
BusyPointer(State)

FUNCTION
State = 0 or 1. If State = 1 a busypointer will be displayed for the current window, else the normal pointer will be displayed.
```

1.25 windowinnerheight

```
SYNTAX
Result.w = WindowInnerHeight()

FUNCTION
Returns the current window's inner-height, in pixels, (window's height without the top and bottom border heights)
```

1.26 windowinnerwidth

```
SYNTAX
Result.w = WindowInnerWidth()

FUNCTION
Returns the used window's inner-width, in pixels, (window's width without the left and right border widths)
```

1.27 detachmenu

```
SYNTAX
DetachMenu()

STATEMENT
Detach the menu from the currently used window. It's often used to change the menu layout and re-attach the new menu (AttachMenu()).
```

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1.28 eventqualifier

```
SYNTAX
Qualifier = EventQualifier()

STATEMENT
Get the 'Qualifier' from the last keypress. The Qualifier is the alternate keys you press while you press a key (ie: shit, control..).
```

1.29 idcmp

IDCMP is an acronym for : 'Intuition Direct Communication Message Port'

Background: The Amiga interface system (called Intuition) communicates with the rest of the Amiga libraries through the message ports. All Windows opened have a message port which recieves all the information needed.

For example, when you press the mouse button on a gadget, a message is sent to the window stating: 'A gadget has been pushed'. This is the role of the IDCMPs, which are constants, and each one corresponds to a different action. Here is the list of all the events that can happen in your window.

Note: to recieve the messages, you need to say it when you open your window (with the #WA_IDCMP, <Your IDCMP you want to recieve here> inside the taglist)

All these constants are in the AmigaLibs.res file.

IDCMP Description:

- #IDCMP_NEWSIZE is the flag that tells Intuition to send an IDCMP message to you after the user has resized your window. At this point, you could examine the size variables in your window structure to discover the new size of the window. See also the #IDCMP_CHANGEWINDOW IDCMP flag.
- #IDCMP_REFRESHWINDOW when set will cause a message to be sent whenever your window needs refreshing. This flag makes sense only with #WFLG_SIMPLE_REFRESH and #WFLG_SMART_REFRESH windows.
- #IDCMP_MOUSEBUTTONS will get reports about mouse-button up/down events broadcast to you (Note: only the ones that don't mean something to Intuition. If the user clicks the select button over a gadget, Intuition deals with it and you don't find out about it through here).
- #IDCMP_MOUSEMOVE will work only if you've set the #WFLG_REPORTMOUSE flag above, or if one of your gadgets has the #GACT_FOLLOWMOUSE flag set. Then all mouse movements will be reported here, providing your window is active.

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- #IDCMP_GADGETDOWN means that when the User "selects" a gadget you've created with the #GACT_IMMEDIATE flag set, the fact will be broadcast through the IDCMP.

- #IDCMP_GADGETUP means that when the user "releases" a gadget that you've created with the #GACT_RELVERIFY flag set, the fact will be broadcast through the IDCMP. This message is only generated if the release is "good", such as releasing the select button over a Boolean gadget, or typing ENTER in a string gadget.
- #IDCMP_MENUPICK selects that menu number data will be sent via the IDCMP.
- #IDCMP_CLOSEWINDOW means broadcast the #IDCMP_CLOSEWINDOW event through the IDCMP rather than the console.
- #IDCMP_RAWKEY selects that all #IDCMP_RAWKEY events are transmitted via the IDCMP. Note that these are absolutely RAW keycodes, which you will have to translate before using. Setting this and the MOUSE flags effectively eliminates the need to open a Console device to get input from the keyboard and mouse. Of course, in exchange you lose all of the console features, most notably the "cooking" of input data and the systematic output of text to your window.
- #IDCMP_VANILLAKEY is for developers who don't want the hassle of #IDCMP_RAWKEYS. This flag will return all the keycodes after translation via the current country-dependent keymap. When you set this flag, you will get IntuiMessages where the Code field has a decoded ANSI character code representing the key struck on the keyboard. Only codes that map to a single character are returned: you can't read such keys as HELP or the function keys with #IDCMP_VANILLAKEY.
 - NEW FOR V36: If you have both #IDCMP_RAWKEY and #IDCMP_VANILLAKEY set, Intuition will send an #IDCMP_RAWKEY event for those *downstrokes* which do not map to single-byte characters ("non-vanilla" keys). In this way you can easily detect cursor keys, function keys, and the Help key without sacrificing the convenience of #IDCMP_VANILLAKEY. NB: A side-effect of having both #IDCMP_RAWKEY and #IDCMP_VANILLAKEY set is that you never hear #IDCMP_RAWKEY upstrokes, even for keys that caused #IDCMP_RAWKEY downstrokes.
- #IDCMP_INTUITICKS gives you simple timer events from Intuition when your window is the active one; it may help you avoid opening and managing the timer device. With this flag set, you will get only one queued-up INTUITICKS message at a time. If Intuition notices that you've been sent an #IDCMP_INTUITICKS message and haven't replied to it, another message will not be sent. Intuition receives timer events and considers sending you an #IDCMP_INTUITICKS message approximately ten times a second.
- #IDCMP_DELTAMOVE gives raw (unscaled) input event delta X/Y

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values. This is so you can detect mouse motion regardless of screen/window/display boundaries. This works a little strangely: if you set both #IDCMP_MOUSEMOVE and #IDCMP_DELTAMOVE. IDCMPFlags, you will get #IDCMP_MOUSEMOVE messages with delta x/y values in the MouseX and MouseY fields of the IDCMPMessage.

- #IDCMP_NEWPREFS indicates you wish to be notified when the system-wide Preferences changes. For V36, there is a new environment mechanism to replace Preferences, which we recommend you consider using instead.
- Set #IDCMP_ACTIVEWINDOW and #IDCMP_INACTIVEWINDOW to get messages when those events happen to your window. Take care not to confuse this "ACTIVEWINDOW" with the familiar sounding, but totally different "WINDOWACTIVE" flag. These two flags have been supplanted by "#IDCMP_ACTIVEWINDOW" and "#WFLG_WINDOWACTIVE". Use the new equivalent terms to avoid confusion.
- Set #IDCMP_DISKINSERTED or #IDCMP_DISKREMOVED to learn when removable disks are inserted or removed, respectively.
- #IDCMP_IDCMPUPDATE is a new class for V36 which is used as a channel of communication from custom and boopsi gadgets to your application.
- #IDCMP_CHANGEWINDOW is a new class for V36 that will be sent to your window whenever its dimensions or position are changed by the user or the functions SizeWindow(), MoveWindow(), ChangeWindowBox(), or ZipWindow().
- #IDCMP_MENUHELP is new for V37. If you specify the #WA_MenuHelp tag when you open your window, then when the user presses the HELP key on the keyboard during a menu session, Intuition will terminate the menu session and issue this even in place of an #IDCMP MENUPICK message.
- NEVER follow the NextSelect link for MENUHELP messages.
- You will be able to hear MENUHELP for ghosted menus. (This lets you tell the user why the option is ghosted.)
- Be aware that you can receive a MENUHELP message whose code corresponds to a menu header or an item that has sub-items (which does not happen for MENUPICK). The code may also be MENUNULL.
- LIMITATION: if the user extend-selects some checkmarked items with the mouse, then presses MENUHELP, your application will only hear the MENUHELP report. You must re-examine the state of your checkmarks when you get a MENUHELP.
- Availability of MENUHELP in V36 is not directly controllable. We apologize...
- #IDCMP_GADGETHELP is new for V39. If you turn on gadget help for your window (using the HelpControl()) function, then Intuition will send #IDCMP_GADGETHELP messages when the mouse passes over certain gadgets or your window. The IntuiMessage->Code field is normally ~0, but a boopsi gadget can return any word value it wishes.

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Ordinarily, gadget help is only processed for the active window. When Intuition has determined that the mouse is pointing at a gadget which has the GMORE_GADGETHELP property, you will be sent an #IDCMP_GADGETHELP message whose IAddress points to the gadget. When the mouse is over your window but not over any help-aware gadget, you will be sent a message whose IAddress is the window itself. When the mouse is not over your window, Intuition sends a message whose IAddress is zero.

A multi-window application can use the #WA_HelpGroup or #WA_HelpGroupWindow tags to indicate that all its windows belong in a group. (The help group identifier should be obtained with utility.library/GetUniqueID().) This makes Intuition test gadget help in all windows of the group when any one of them is the active one. Inactive windows whose #WA_HelpGroup matches the active window's receive #IDCMP_GADGETHELP messages when the mouse is over that window or any of its help-aware gadgets. The GADGETHELP message with an IAddress of zero means the mouse is not over the active window or any other window of the same group. It is always sent to the active window (which is not necessarily the window in your group that last got a message).

To maximize performance, gadget help is not checked while the mouse is travelling quickly, or if it has not moved at all since the last test. As well, if Intuition discovers that the mouse is still over same gadget and that gadget does not wish to send a different IntuiMessage->Code from the last message, no new IntuiMessage is sent.

- #IDCMP_REQVERIFY is the flag which, like #IDCMP_SIZEVERIFY and ...
- #IDCMP_MENUVERIFY (see immediately below), specifies that you want to make sure that your graphical state is quiescent before something extraordinary happens. In this case, the extraordinary event is that a rectangle of graphical data is about to be blasted into your Window. If you're drawing directly into its screen, you probably will wish to make sure that you've ceased drawing before the user is allowed to bring up the DMRequest you've set up, and the same for when system has a request for the user. Set this flag to ask for that verification step.
- #IDCMP_REQCLEAR is the flag you set to hear a message whenever a requester is cleared from your window. If you are using #IDCMP_REQVERIFY to arbitrate access to your screen's bitmap, it is safe to start your output once you have heard an #IDCMP_REQCLEAR for each #IDCMP_REQSET.
- #IDCMP_REQSET is a flag that you set to receive a broadcast for each requester that is opened in your window. Compare this with #IDCMP_REQCLEAR above. This function is distinct from #IDCMP_REQVERIFY. This functions merely tells you that a

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requester has opened, whereas #IDCMP_REQVERIFY requires you to respond before the requester is opened.

- #IDCMP_MENUVERIFY is the flag you set to have Intuition stop and wait for you to finish all graphical output to your window before rendering the menus. Menus are currently rendered in the most memory-efficient way, which involves interrupting output to all windows in the screen before the menus are drawn. If you need to finish your graphical output before this happens, you can set this flag to make sure that you do.
- #IDCMP_SIZEVERIFY means that you will be doing output to your
 window which depends on a knowledge of the current size of the
 window. If the user wants to resize the window, you may want
 to make sure that any queued output completes before the sizing
 takes place (critical text, for instance). If this is the
 case, set this flag. Then, when the user wants to size,
 Intuition will send you the #IDCMP_SIZEVERIFY message and Wait()
 until you reply that it's OK to proceed with the sizing. NOTE:
 when we say that Intuition will Wait() until you reply, what
 we're really saying is that user will WAIT until you reply, which
 suffers the great negative potential of User-Unfriendliness.
 So remember: use this flag sparingly, and, as always with any
 IDCMP Message you receive, reply to it promptly! Then, after
 user has sized the window, you can find out about it using
 #IDCMP_NEWSIZE.