

Flags

<code>/EXP=e</code>	Sets the expansion of the panel control bar area. See the NewPanel operation <code>/EXP</code> flag for details. The <code>/EXP</code> flag was added in Igor Pro 9.00.
<code>/L/R/B/T</code>	Designates whether to use the left, right, bottom, or top (default) window edge, respectively, for the control bar location.
<code>/W=graphName</code>	Specifies the name of a particular graph containing a control bar.

Details

The control bar is an area at the top of graphs reserved for controls such as buttons, checkboxes and pop-up menus. A line is drawn between this area and the graph area. The control bar may be assigned a separate background color by pressing Control (*Macintosh*) or Ctrl (*Windows*) and clicking in the area, or by right-clicking it (*Windows*), or with the **ModifyGraph** operation. You cannot use draw tools in this area.

For graphs with no controls, you do not need to use this operation.

Use ControlInfo `kwControlBar` operation to determine the current size of the control bar.

Examples

```
Display myData
ControlBar 35           // 35 pixels high
Button button0,pos={56,8},size={90,20},title="My Button"
```

See Also

Chapter III-14, **Controls and Control Panels**, for details about control panels and controls.

Chapter V-1, **ControlInfo**

ControlInfo

ControlInfo [`/W=winName`] *controlName*

The ControlInfo operation returns information about the state or status of the named control in a graph or control panel window or subwindow.

Flags

<code>/G [=doGlobal]</code>	If <i>doGlobal</i> is non-zero or absent, the position returned via <code>V_top</code> and <code>V_left</code> is in global screen coordinates rather relative to the window containing the control.
<code>/W=winName</code>	Looks for the control in the named graph or panel window or subwindow. If <code>/W</code> is omitted, ControlInfo looks in the top graph or panel window or subwindow. When identifying a subwindow with <i>winName</i> , see Subwindow Syntax on page III-92 for details on forming the window hierarchy.

Parameters

controlName is the name of a control in the window specified by `/W` or in the top graph or panel window. *controlName* may also be the keyword `kwBackgroundColor` to set `V_Red`, `V_Green`, `V_Blue`, and `V_Alpha`, the keyword `kwControlBar` or `kwControlBarBottom` to set `V_Height`, the keyword `kwControlBarLeft` or `kwControlBarRight` to set `V_Width`, or the keyword `kwSelectedControl` to set `S_value` and `V_flag`.

Details

Information for all controls is returned via the following string and numeric variables. Coordinates are returned in **Control Panel Units**.

The kind of control is returned in `V_flag` as a positive or negative integer. A negative value indicates the control is incomplete or not active. If `V_flag` is zero, then the named control does not exist. Information returned for specific control types is as follows:

ControlInfo

S_recreation	Commands to recreate the named control.
S_title	Title of the named control.
V_disable	Disable state of control: 0: Normal (enabled, visible). 1: Hidden. 2: Disabled, visible.
V_Height, V_Width, V_top, V_left, V_right, V_pos, V_align	Dimensions and position of the named control in Control Panel Units . V_right, V_pos, and V_align were added in Igor Pro 8.00 and depend on whether the align keyword was applied to the control (e.g., Button <name> align=1). V_align is 1 if the the align keyword was applied to the control or to 0 otherwise. V_pos is the horizontal coordinate used to position the control. It represents the position of the left end of the control if the align keyword was omitted or of the right end if the align keyword was applied. V_left and V_right are the the horizontal coordinates of the left and right ends of the control regardless of whether the align keyword was applied or not.

Buttons

V_flag	1
V_value	Tick count of last mouse up.
S_UserData	Primary (unnamed) user data text. For retrieving any named user data, you must use the GetUserData operation. See also the descriptions of S_recreation, V_disable, V_Height, V_Width, V_top, V_left, V_right, V_pos, and V_align at the beginning of the Details section.

Chart

V_flag	6 or -6
V_value	Current point number.
S_UserData	Keyword-packed information string. See S_value for Chart Details for more keyword information. See also the descriptions of S_recreation, V_disable, V_Height, V_Width, V_top, V_left, V_right, V_pos, and V_align at the beginning of the Details section.

Checkbox

V_flag	2
V_value	0 if it is deselected or 1 if it is selected.
S_UserData	Primary (unnamed) user data text. For retrieving any named user data, you must use the GetUserData operation. See also the descriptions of S_recreation, V_disable, V_Height, V_Width, V_top, V_left, V_right, V_pos, and V_align at the beginning of the Details section.

CustomControl

V_flag	12
V_value	Tick count of last mouse up.

S_UserData	Primary (unnamed) user data text. For retrieving any named user data, you must use the GetUserData operation.
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S_value	Name of the picture used to define the control appearance. See also the descriptions of S_recreation, V_disable, V_Height, V_Width, V_top, V_left, V_right, V_pos, and V_align at the beginning of the Details section.
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GroupBox

V_flag	9
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S_value	Title text. See also the descriptions of S_recreation, V_disable, V_Height, V_Width, V_top, V_left, V_right, V_pos, and V_align at the beginning of the Details section.
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ListBox

V_flag	11
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V_value	Currently selected row (valid for mode 1 or 2 or modes 5 and 6 when no selWave is used). If no list row is selected, then it is set to -1.
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V_selCol	Currently selected column (valid for modes 5 and 6 when no selWave is used).
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V_horizScroll	Number of pixels the list has been scrolled horizontally to the right.
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V_vertScroll	Number of pixels the list has been scrolled vertically downwards.
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V_rowHeight	Height of a row in pixels.
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V_startRow	The current top visible row.
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S_columnWidths	A comma-separated list of column widths in pixels.
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S_dataFolder	Full path to listWave (if any).
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S_UserData	Primary (unnamed) user data text. For retrieving any named user data, you must use the GetUserData operation.
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S_value	Name of listWave (if any). See also the descriptions of S_recreation, V_disable, V_Height, V_Width, V_top, V_left, V_right, V_pos, and V_align at the beginning of the Details section.
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PopupMenu

V_flag	3 or -3
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V_Red, V_Green, V_Blue, V_Alpha	For color array pop-up menus, these are the encoded color values.
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V_value	Current item number (counting from one).
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S_UserData	Primary (unnamed) user data text. For retrieving any named user data, you must use the GetUserData operation.
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S_value	Text of the current item. If PopupMenu is a color array then it contains color values encoded as RGBA Values .
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	See also the descriptions of S_recreation, V_disable, V_Height, V_Width, V_top, V_left, V_right, V_pos, and V_align at the beginning of the Details section.
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SetVariable

V_flag	5 or -5
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ControlInfo

V_value	Value of the variable. If the SetVariable is used with a string variable, then it is the interpretation of the string as a number, which will be NaN if conversion fails.
S_dataFolder	Full path to the variable.
S_UserData	Primary (unnamed) user data text. For retrieving any named user data, you must use the GetUserData operation.
S_value	Name of the variable or, if the value was set using _STR: syntax, the string value itself. See also the descriptions of S_recreation, V_disable, V_Height, V_Width, V_top, V_left, V_right, V_pos, and V_align at the beginning of the Details section.

Slider

V_flag	7
V_value	Numeric value of the variable.
S_dataFolder	Full path to the variable.
S_UserData	Primary (unnamed) user data text. For retrieving any named user data, you must use the GetUserData operation.
S_value	Name of the variable. See also the descriptions of S_recreation, V_disable, V_Height, V_Width, V_top, V_left, V_right, V_pos, and V_align at the beginning of the Details section.

TabControl

V_flag	8
V_value	Number of the current tab.
S_UserData	Primary (unnamed) user data text. For retrieving any named user data, you must use the GetUserData operation.
S_value	Tab text. See also the descriptions of S_recreation, V_disable, V_Height, V_Width, V_top, V_left, V_right, V_pos, and V_align at the beginning of the Details section.

TitleBox

V_flag	10
S_dataFolder	Full path if text is from a string variable.
S_value	Name if text is from a string variable. See also the descriptions of S_recreation, V_disable, V_Height, V_Width, V_top, and V_left at the beginning of the Details section. See TitleBox Positioning on page V-1040 for details on V_right, V_pos, and V_align.

ValDisplay

V_flag	4 or -4
V_value	Displayed value.
S_value	Text of expression that ValDisplay evaluates. See also the descriptions of S_recreation, V_disable, V_Height, V_Width, V_top, V_left, V_right, V_pos, and V_align at the beginning of the Details section.

kwBackgroundColor

V_Red, V_Green, V_Blue, V_Alpha If *controlName* is kwBackgroundColor then this is the color of the control panel background. This color is usually the default user interface background color, as set by the Appearance control panel on the Macintosh or by the Appearance tab of the Display Properties on Windows, until changed by `ModifyPanel cbRGB`.

kwControlBar or kwControlBarTop

V_Height The height in pixels of the top control bar area in a graph as set by **ControlBar**.

kwControlBarBottom

V_Height The height in pixels of the bottom control bar area in a graph as set by **ControlBar/B**.

kwControlBarLeft

V_Width The width in pixels of the left control bar area in a graph as set by **ControlBar/L**.

kwControlBarRight

V_Width The width in pixels of the right control bar area in a graph as set by **ControlBar/R**.

kwSelectedControl

V_flag Set to 1 if a control is selected or 0 if not.
SetVariable and **ListBox** controls can be selected, most other controls can not.

S_value Name of selected control (if any) or "".

S_value for Chart Details

The following applies *only* to the keyword-packed information string returned in S_value for a chart. S_value will consist of a sequence of sections with the format: "*keyword:value*;" You can pick a value out of a keyword-packed string using the **NumberByKey** and **StringByKey** functions. Here are the S_value keywords:

Keyword	Type	Meaning
FNAME	string	Name of the FIFO chart is monitoring.
LHSAMP	number	Left hand sample number.
NCHANS	number	Number of channels displayed in chart.
PPSTRIP	number	The chart's points per strip value.
RHSAMP	number	Right hand sample number (same as V_value).

In addition, ControlInfo writes fields to S_value for each channel in the chart. The keyword for the field is a combination of a name and a number that identify the field and the channel to which it refers. For example, if channel 4 is named "Pressure" then the following would appear in the S_value string: "CHNAME4:Pressure". In the following table, the channel's number is represented by #:

Keyword	Type	Meaning
CHCTAB#	number	Channel's color table value as set by Chart ctab keyword.
CHGAIN#	number	Channel's gain value as set by Chart gain keyword.
CHNAME#	string	Name of channel defined by FIFO.
CHOFFSET#	number	Channel's offset value as set by Chart offset keyword.