

GetLastUserMenuItem

```
Function EscapeKeyExample()
  Variable keys
  do
    keys = GetKeyState(0)
    if ((keys & 32) != 0)           // User is pressing escape?
      break
    endif
  while(1)
End
```

See Also

[Keyboard Shortcuts](#) on page IV-136. [Setting Bit Parameters](#) on page IV-12 for details about bit settings.

GetLastUserMenuItem

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The GetLastUserMenuItem operation sets variables in the local scope to indicate the value of the last selected user-defined menu item.

Details

GetLastUserMenuItem creates and sets these special variables:

V_flag The kind of menu that was selected:

V_flag	Menu Kind
0	Normal text menu item, including Optional Menu Items (see page IV-130) and Multiple Menu Items (see page IV-131).
3	"*FONT*"
6	"*LINESTYLEPOP*"
7	"*PATTERNPOP*"
8	"*MARKERPOP*"
9	"*CHARACTER*"
10	"*COLORPOP*"
13	"*COLORTABLEPOP*"

See [Specialized Menu Item Definitions](#) on page IV-132 for details about these special user-defined menus.

V_value Which menu item was selected. The value also depends on the kind of menu the item was selected from:

V_flag	V_value meaning
0	Text menu item number (the first menu item is number 1).
3	Font menu item number (use S_Value, instead).
6	Line style number (0 is solid line)
7	Pattern number (1 is the first selection, a SW-NE light diagonal).
8	Marker number (1 is the first selection, the X marker).
9	Character as an integer, = char2num(S_Value). Use S_Value instead.
10	Color menu item (use V_Red, V_Green, V_Blue, and V_Alpha instead).
13	Color table list menu item (use S_Value instead).

`S_value` The menu item text, depending on the kind of menu it was selected from:

<code>V_flag</code>	<code>S_value meaning</code>
0	Text menu item text.
3	Font name or "default".
6	Name of the line style menu or submenu.
7	Name of the pattern menu or submenu.
8	Name of the marker menu or submenu.
9	Character as string.
10	Name of the color menu or submenu.
13	Color table name.

In the case of **Specialized Menu Item Definitions** (see page IV-132), `S_value` will be the title of the menu or submenu, etc.

`V_Red, V_Green, V_Blue, V_Alpha`

If a user-defined color menu ("*COLORPOP*" menu item) was chosen then these values hold the red, green, and blue values of the selected color. The values range from 0 to 65535 - see **RGBA Values**.

These outputs are set to 0 if the last user-defined menu selection was not a color menu selection.

`S_graphName, S_traceName, V_mouseX, V_mouseY`

These variables are set only when the user chooses a user-defined menu item from the TracePopup, AllTracesPopup, or GraphPopup contextual menu.

`S_graphName` and `S_traceName` are initially "" until a user-defined menu selection is made from one of these contextual menus, and are not reset for each user-defined menu selection.

`S_graphName` is the full host-child specification for the graph. If the graph is embedded into a host window, `S_graphName` might be something like "Panel0#G0". See **Subwindow Syntax** on page III-92.

`S_traceName` is name of the trace that was selected by the trace contextual menu, or "" if the AllTracesPopup or GraphPopup menu was chosen. See **Trace Names** on page II-282.

`V_mouseX` and `V_mouseY`, added in Igor Pro 8.00, are the mouse location of the click that invoked the contextual menu. The location is in pixels; use **AxisValFromPixel** to determine the X and Y axis values that correspond to the pixel location.

`S_tableName, S_firstColumnPath, S_columnName, V_mouseX, V_mouseY`

GetLastUserMenuItem

Added in Igor Pro 9.00.

These variables are set only when the user chooses a user-defined menu item from the TablePopup contextual menu.

`S_tableName`, `S_firstColumnPath` and `S_columnName` are initially "" until a user-defined menu selection is made from a TablePopup contextual menus, and are not reset for each user-defined menu selection.

`S_tableName` is the full host-child specification for the table. If the table is embedded into a host window, `S_tableName` might be something like "Panel0#T0". See **Subwindow Syntax** on page III-92.

`S_firstColumnPath` is full path to the wave selected by the table contextual menu, or "" if multiple columns from different waves were chosen. The full path is identical to **GetWavesDataFolder(wave,2)**.

`S_columnName` is name of the selected column as used in the **ModifyTable** command, or "" if multiple columns from different waves were selected.

You can obtain additional information about the selected cells in the table using the **GetSelection** operation.

`V_mouseX` and `V_mouseY` are the mouse location of the click that invoked the contextual menu. The location is in pixels relative to the top-left corner of the table.

Examples

A Multiple Menu Items menu definition:

```
Menu "Wave List", dynamic
    "Menu Item 1", <some command>
    "Menu Item 2", <some command>
    WaveList("*,;,*"), DoSomethingWithWave()
End
```

The last item can create multiple menu items - one for each wave name returned by WaveList. If the user selects one of these items, the DoSomethingWithWave user function can call GetLastUserMenuItem to determine which wave was selected:

```
Function DoSomethingWithWave()
    GetLastUserMenuItem
    WAVE/Z selectedWave = $S_value
    // Use selectedWave for something
End
```

A trivial user-defined color menu definition:

```
Menu "Color"
    "*COLORPOP*", DoSomethingWithColor()
End

Function DoSomethingWithColor()
    GetLastUserMenuItem
    ... do something with V_Red, V_Green, V_Blue, V_Alpha ...
End
```

See **Specialized Menu Item Definitions** on page IV-132 for another color menu example.

A Trace contextual menu Items menu definition:

```
Menu "TracePopup", dynamic          // menu when a trace is right-clicked
    "-"
    // separator divides this from built-in menu items
    ExportTraceName(), ExportSelectedTrace()
    "Draw XY Here", DrawXYHere()
End

Function/S ExportTraceName()
    GetLastUserMenuItem           // Sets S_graphName, S_traceName, V_mouseX, V_mouseY
    if (strlen(S_traceName) > 0)
        String item = "Export "+S_traceName
        return item
    endif
    return ""                    // No item is added to the menu
End
```