

## CheckDisplayed

### CheckDisplayed

**CheckDisplayed** [/A/W] **waveName** [, **waveName**]...

The CheckDisplayed operation determines if named waves are displayed or otherwise used in a host window or subwindow.

#### Flags

/A	Checks all graphs, tables, page layout, panels, and Gizmo windows.
/W= <i>winName</i>	Checks only the named window
	When identifying a subwindow with <i>winName</i> , see <b>Subwindow Syntax</b> on page III-92 for details on forming the window hierarchy.

#### Details

If neither /A nor /W are used, CheckDisplayed checks only the top graph, table, page layout, panel, or Gizmo window.

CheckDisplayed sets a bit in the variable V\_flag for each wave that is displayed.

Waves that are not directly displayed in a window can still be used by it. For example, CheckDisplayed returns 1 for the following cases: waves associated with hidden traces, color index waves, waves used to specify error bars, and waves used to draw polygons in page layouts and control panels as well as in graphs.

#### Example

```
// Checks Graph0 to see if aWave, bWave, and cWave are displayed in it.  
// Sets bit 0 of V_flag if aWave is displayed.  
// Sets bit 1 of V_flag if bWave is displayed.  
// Sets bit 2 of V_flag if cWave is displayed.  
CheckDisplayed/W=Graph0 aWave,bWave,cWave
```

#### See Also

**Setting Bit Parameters** on page IV-12 for information about bit settings.

## CheckName

**CheckName** (*nameStr*, *objectType* [, *windowNameStr*])

The CheckName function returns a number which indicates if the specified name is legal and unique among objects in the namespace of the specified object type.

In Igor Pro 9.00 or later, you can use the **CreateDataObjectName** function as a replacement for some combination of CheckName, CleanupName, and UniqueName to create names of waves, global variables, and data folders.

Waves, global numeric variables, and global string variables are all in the same namespace and need to be unique only within the data folder containing them. However, they also need to be distinct from names of Igor operations and functions and from names of user-defined procedures.

Data folders are in their own namespace and need to be unique only among other data folders at the same level of the data folder hierarchy.

*windowNameStr* is optional. If missing, it is taken to be the top graph, panel, layout, or notebook according to the value of *objectType*.

#### Details

A result of zero indicates that the name is legal and unique within its namespace. Any nonzero result indicates that the name is illegal or not unique. You can use the **CleanupName** and **UniqueName** functions to guarantee legality and uniqueness.

*nameStr* should contain an unquoted name (i.e., no single quotes for liberal names), such as you might receive from the user through a dialog or control panel.

*objectType* is one of the following:

The *windowNameStr* argument is used only with *objectTypes* 14, 15, and 16. The *nameStr* is checked for uniqueness only within the named window (other windows might have objects with the given name). If a named window is given but does not exist, any valid *nameStr* is permitted