See Also
Saving Experiments on page II-16, **ExperimentInfo**

SaveGizmoCopy

SaveGizmoCopy [***flags***][**as** ***fileNameStr***]

The SaveGizmoCopy operation saves a Gizmo window and its waves in an Igor packed experiment file.

SaveGizmoCopy was added in Igor Pro 8.00.

Parameters

The file to be written is specified by *fileNameStr* and /P=*pathName* where *pathName* is the name of an Igor symbolic path. *fileNameStr* can be a full path to the file, in which case /P is not needed, a partial path relative to the folder associated with *pathName*, or the name of a file in the folder associated with *pathName*. If Igor can not determine the location of the file from *fileNameStr* and *pathName*, it displays a dialog allowing you to specify the file.

If you use a full or partial path for *fileNameStr*, see **Path Separators** on page III-451 for details on forming the path.

Flags

/I	Presents a dialog from which you can specify file name and folder.
/O	Overwrites file if it exists already.
/P=*pathName*	Specifies the folder to store the file in. *pathName* is the name of an existing symbolic path.
/T=*saveType*	Specifies the file format of the saved file. *saveType*=0: Packed experiment file. *saveType*=1: HDF5 packed experiment file. If *fileNameStr* is specified the file name extension must be ".h5xp". The /T flag was added in Igor Pro 9.00.
/W= *winName*	*winName* is the name of the Gizmo window to be saved. If /W is omitted or if *winName* is "", the top Gizmo window is saved.
/Z	Errors are not fatal and error dialogs are suppressed. See Details.

Details

The main uses for saving as a packed experiment are to save an archival copy of data or to prepare to merge data from multiple experiments (see **Merging Experiments** on page II-19). The resulting experiment file preserves the data folder hierarchy of the waves displayed in the Gizmo window starting from the root data folder. Only the Gizmo window, its waves as well as the objects on Gizmo's object list and attribute list are saved in the packed experiment file. Associated procedures including hook functions are not saved.

SaveGizmoCopy does not know about dependencies. If a Gizmo window contains a wave, wave0, that is dependent on another wave, wave1 which is not used in the Gizmo window, SaveGizmoCopy will save wave0 but not wave1. When the saved experiment is open, there will be a broken dependency.

SaveGizmoCopy sets the variable V_flag to 0 if the operation completes normally, to -1 if the user cancels, or to another nonzero value that indicates that an error occurred. If you want to detect the user canceling an interactive save, use the /Z flag and check V_flag after calling SaveGizmoCopy.

See Also
SaveGraphCopy, **SaveTableCopy**, **SaveData**, **Merging Experiments** on page II-19

SaveGraphCopy

SaveGraphCopy [***flags***][**as** ***fileNameStr***]

The SaveGraphCopy operation saves a graph and its waves in an Igor packed experiment file.

Parameters

The file to be written is specified by *fileNameStr* and /P=*pathName* where *pathName* is the name of an Igor symbolic path. *fileNameStr* can be a full path to the file, in which case /P is not needed, a partial path relative to the folder associated with *pathName*, or the name of a file in the folder associated with *pathName*. If Igor can not determine the location of the file from *fileNameStr* and *pathName*, it displays a dialog allowing you to specify the file.

If you use a full or partial path for *fileNameStr*, see **Path Separators** on page III-451 for details on forming the path.

Flags

/I	Presents a dialog from which you can specify file name and folder.
/O	Overwrites file if it exists already.
/P=*pathName*	Specifies the folder to store the file in. *pathName* is the name of an existing symbolic path.
/T=*saveType*	Specifies the file format of the saved file. *saveType*=0: Packed experiment file. *saveType*=1: HDF5 packed experiment file. If *fileNameStr* is specified the file name extension must be ".h5xp". The /T flag was added in Igor Pro 9.00.
/W= *winName*	*winName* is the name of the graph to be saved. If /W is omitted or if *winName* is "", the top graph is saved.
/Z	Errors are not fatal and error dialogs are suppressed. See Details.

Details

The main uses for saving as a packed experiment are to save an archival copy of data or to prepare to merge data from multiple experiments (see **Merging Experiments** on page II-19). The resulting experiment file preserves the data folder hierarchy of the waves displayed in the graph starting from the "top" data folder, which is the data folder that encloses all waves displayed in the graph. The top data folder becomes the root data folder of the resulting experiment file. Only the graph, its waves, dashed line settings, and any pictures used in the graph are saved in the packed experiment file, not procedures, variables, strings or any other objects in the experiment.

SaveGraphCopy does not work well with graphs containing controls. First, the controls may depend on waves, variables or FIFOs (for chart controls) that SaveGraphCopy will not save. Second, controls typically rely on procedures which are not saved by SaveGraphCopy.

SaveGraphCopy does not know about dependencies. If a graph contains a wave, wave0, that is dependent on another wave, wave1 which is not in the graph, SaveGraphCopy will save wave0 but not wave1. When the saved experiment is open, there will be a broken dependency.

SaveGraphCopy sets the variable V_flag to 0 if the operation completes normally, to -1 if the user cancels, or to another nonzero value that indicates that an error occurred. If you want to detect the user canceling an interactive save, use the /Z flag and check V_flag after calling SaveGraphCopy.

The **SaveData** operation also has the ability to save data from a graph to a packed experiment file. SaveData is more complex but a bit more flexible than SaveGraphCopy.

Examples

This function saves all graphs in the experiment to individual packed experiment files.

```
Function SaveAllGraphsToPackedFiles(pathName)
    String pathName         // Name of an Igor symbolic path.

    String graphName
    Variable index

    index = 0
    do
        graphName = WinName(index, 1)
        if (strlen(graphName) == 0)
            break
        endif
```