

See Also

Chapter II-8, **Data Folders**, and the **GetIndexedObjName** function.

CountObjectsDFR

CountObjectsDFR (*dfr*, *objectType*)

The CountObjectsDFR function returns the number of objects of the specified type in the data folder specified by the data folder reference *dfr*.

CountObjectsDFR is the same as CountObjects except the first parameter, *dfr*, is a data folder reference instead of a string containing a path.

Parameters

dfr is a data folder reference.

objectType is one of the following values:

- 1 Waves
- 2 Numeric variables
- 3 String variables
- 4 Data folders

See Also

Data Folders on page II-107, **Data Folder References** on page IV-78, **Built-in DFREF Functions** on page IV-81, **GetIndexedObjNameDFR**

cpowi

cpowi (*num*, *ipow*)

This function is obsolete as the exponentiation operator $^$ handles complex expressions with any combination of real, integer and complex arguments. See **Operators** on page IV-6. The cpowi function returns a complex number resulting from raising complex *num* to integer-valued power *ipow*. *ipow* can be positive or negative, but if it is not an integer cpowi returns (NaN, NaN).

CreateAliasShortcut

CreateAliasShortcut [*flags*] [*targetFileDirStr*] [*as aliasFileStr*]

The CreateAliasShortcut operation creates an alias (*Macintosh*) or shortcut (*Windows*) file on disk. The alias can point to either a file or a folder. The file or folder pointed to is called the “target” of the alias or shortcut.

Parameters

targetFileDirStr can be a full path to the file or folder to make an alias or shortcut for, a partial path relative to the folder associated with /P=*pathName*, or the name of a file or folder in the folder associated with *pathName*.

If Igor can not determine the location of the file or folder from *targetFileDirStr* and *pathName*, it displays a dialog allowing you to specify a target file. Use /D to select a folder as the alias target, instead.

aliasFileStr can be a full path to the created alias file, a partial path relative to the folder associated with *pathName* if specified, or the name of a file in the folder associated with *pathName*.

If Igor can not determine the location of the alias or shortcut file from *aliasFileStr* and *pathName*, it displays a File Save dialog allowing you to create the file.

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

Folder paths should not end with single path separators. See the **MoveFolder Details** section.

Flags

- | | |
|----|-----------------------------------------------------------------------------------------------------------------|
| /D | Uses the Select Folder dialog rather than Open File dialog when <i>targetFileDirStr</i> is not fully specified. |
|----|-----------------------------------------------------------------------------------------------------------------|

CreateAliasShortcut

<i>/I [=i]</i>	Specifies the level of user interactivity. <i>/I=0:</i> Interactive only if one or <i>targetFileDirStr</i> or <i>aliasFileStr</i> is not specified or if the target file is missing. (Same as if <i>/I</i> was not specified.) <i>/I=1:</i> Interactive even if <i>targetFileDirStr</i> is fully specified and the target file exists. <i>/I=2:</i> Interactive even if <i>targetFileDirStr</i> is specified. <i>/I=3:</i> Interactive even if <i>targetFileDirStr</i> is specified and the target file exists. Same as <i>/I</i> only.
<i>/M=messageStr</i>	Specifies the prompt message in the Open File or Select Folder dialog. If <i>/S</i> is not specified, then <i>messageStr</i> will be used for Open File (or Select Folder) and for Save File dialogs.
<i>/O</i>	Overwrites any existing file with the alias or shortcut file.
<i>/P=pathName</i>	Specifies the folder to look in for the file. <i>pathName</i> is the name of an existing symbolic path.
<i>/S=saveMessageStr</i>	Specifies the prompt message in the Save File dialog when creating the alias or shortcut file.
<i>/Z[=z]</i>	Prevents procedure execution from aborting the procedure tries to create an alias or shortcut for a file or folder that does not exist. Use <i>/Z</i> if you want to handle this case in your procedures rather than aborting execution. <i>/Z=0:</i> Same as no <i>/Z</i> . <i>/Z=1:</i> Creates an alias to a file or folder only if it exists. <i>/Z</i> alone has the same effect as <i>/Z=1</i> . <i>/Z=2:</i> Creates an alias to a file or folder only if it exists and displays a dialog if it does not exist.

Variables

The CreateAliasShortcut operation returns information in the following variables:

<i>V_flag</i>	Status output: 0 Created an alias or shortcut file. 1 User cancelled any of the Open File, Select Folder, or Save File dialogs. Other: An error occurred, such as the target file does not exist.
<i>S_fileName</i>	Full path to the target file or folder. If an error occurred or if the user cancelled, it is an empty string.
<i>S_path</i>	Full path to the created alias or shortcut file. If an error occurred or if the user cancelled, it is an empty string.

Examples

Create a shortcut (*Windows*) to the current experiment, on the desktop:

```
String target= Igorinfo(1)+".pxp" // experiments are usually .pxp on Windows
CreateAliasShortcut/O/P=home target as "C:WINDOWS\Desktop:"+target
```

Create an alias (*Macintosh*) to the VDT XOP in the Igor Extensions folder:

```
String target= ":More Extensions:Data Acquisition:VDT"
CreateAliasShortcut/O/P=Igor target as ":Igor Extensions:VDT alias"
```

Create an alias to the "HD 2" disk. Put the alias on the desktop:

```
CreateAliasShortcut/D/O "HD 2" as "HD:Desktop Folder:Alias to HD 2"
```

See Also

Symbolic Paths on page II-22.

The **Open**, **MoveFile**, **DeleteFile**, and **GetFileFolderInfo** operations. The **IgorInfo** and **ParseFilePath** functions.