

## FStatus

### **FStatus** *refNum*

The FStatus operation provides file status information for a file.

#### **Parameters**

*refNum* is a file reference number obtained from the **Open** operation.

#### **Details**

FStatus supports files of any length.

FStatus sets the following variables:

V_flag	Nonzero (true) if <i>refNum</i> is valid, in which case FStatus sets the other variables as well.
V_filePos	Current file position for the file in bytes from the start. In Igor7 or later, if you only want to know the current file position, use <b>FGetPos</b> instead of FStatus, which is slower.
V_logEOF	Total number of bytes in the file.
S_fileName	Name of the file.
S_path	Path from the volume to the folder containing the file. For example, "hd:Folder1:Folder2:". This is suitable for use as an input to the <b>NewPath</b> operation. Note that on the Windows operating system Igor uses a colon between folders instead of the Windows-standard backslash to avoid confusion with Igor's use of backslash to start an escape sequence (see <b>Escape Sequences in Strings</b> on page IV-14).
S_info	Keyword-packed information string.

The keyword-packed information string for S\_info consists of a sequence of sections with the following form: *keyword:value*; You can pick a value out of a keyword-packed string using the **NumberByKey** and **StringByKey** functions.

Here are the keywords for S\_info:

<b>Keyword</b>	<b>Type</b>	<b>Meaning</b>
PATH	string	Name of the symbolic path in which the file is located. This will be empty if there is no such symbolic path.
WRITEABLE	number	1 if file can be written to, 0 if not.

#### **See Also**

**Open**, **FGetPos**, **FSetPos**

## FTPCreateDirectory

### **FTPCreateDirectory** [*flags*] *urlStr*

The FTPCreateDirectory operation creates a directory on an FTP server on the Internet.

For background information on Igor's FTP capabilities and other important details, see **File Transfer Protocol (FTP)** on page IV-272.

FTPCreateDirectory sets V\_flag to zero if the operation succeeds or to a non-zero error code if it fails.

If the directory specified by *urlStr* already exists on the server, the server contents are not touched and V\_flag is set to -1. This is not treated as an error.

#### **Parameters**

*urlStr* specifies the directory to create. It consists of a naming scheme (always "ftp://"), a computer name (e.g., "ftp.wavemetrics.com" or "38.170.234.2"), and a path (e.g., "/test/newDirectory"). For example:

```
"ftp://ftp.wavemetrics.com/test/newDirectory"
```

*urlStr* must always end with a directory name, and must not end with a slash.

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To indicate that *urlStr* contains an absolute path, insert an extra '/' character between the computer name and the path. For example:

```
ftp://ftp.wavemetrics.com//pub/test/newDirectory
```

If you do not specify that the path in *urlStr* is absolute, it is interpreted as relative to the FTP user's base directory. Since *pub* is the base directory for an anonymous user at *wavemetrics.com*, these URLs reference the same directory for an anonymous user:

```
ftp://ftp.wavemetrics.com//pub/test/newDirectory // Absolute path
ftp://ftp.wavemetrics.com/test/newDirectory      // Relative to base directory
```

Special characters, such as punctuation, that are used in *urlStr* may be incorrectly interpreted by the operation. If you get unexpected results and *urlStr* contains such characters, you can try percent-encoding the special characters. See **Percent Encoding** on page IV-268 for additional information.

### Flags

- /N=portNumber* Specifies the server's TCP/IP port number to use (default is 21). In almost all cases, the default will be correct so you won't need to use the */N* flag.
- /U=usernameStr* Specifies the user name to be used when logging in to the FTP server. If */U* is omitted or if *usernameStr* is "", the login is done as an anonymous user. Use */U* if you have an account on the FTP server.
- /V=diagnosticMode* Determines what kind of diagnostic messages **FTPCreateDirectory** will display in the history area. *diagnosticMode* is a bitwise parameter, with the bits defined as follows:
- Bit 0: Show basic diagnostics. Currently this just displays the URL in the history.
  - Bit 1: Show errors. This displays additional information when errors occur.
  - Bit 2: Show status. This displays commands sent to the server and the server's response.
- The default value for *diagnosticMode* is 3 (show basic and error diagnostics). If you are having difficulties, you can try using 7 to show the commands sent to the server and the server's response.
- See **FTP Troubleshooting** on page IV-275 for other troubleshooting tips.
- /W=passwordStr* Specifies the password to be used when logging in to the FTP server. Use */W* if you have an account on the FTP server.
- If */W* is omitted, the login is done using a default password that will work with most anonymous FTP servers.
- See **Safe Handling of Passwords** on page IV-270 for information on handling sensitive passwords.
- /Z* Errors are not fatal. Will not abort procedure execution if an error occurs.
- Your procedure can inspect the *V\_flag* variable to see if the transfer succeeded. *V\_flag* will be zero if it succeeded, -1 if the specified directory already exists, or another nonzero value if an error occurred.

### Examples

```
// Create a directory.
String url = "ftp://ftp.wavemetrics.com/pub/test/newDirectory"
FTPCreateDirectory url
```

### See Also

**File Transfer Protocol (FTP)** on page IV-272.

**FTPDelete**, **FTPDownload**, **FTPUpload**, **URLEncode**