

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 FGetPos 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 NewPath 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 Escape Sequences in Strings 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:

Keyword	Type	Meaning
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.

FTPCreateDirectory

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 <i>userNameStr</i> 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. <i>diagnosticMode</i> 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 <i>diagnosticMode</i> 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**