See Also

The **Tag** operation, the **TagWaveRef** function.

For a discussion of wave references, see **Wave Reference Functions** on page IV-197.

TagWaveRef

TagWaveRef()

TagWaveRef is a very specialized function that is only valid when called from within the text of a tag as part of a \{} dynamic text escape sequence. It returns a wave reference to the wave that the tag is on and helps you to display information about the tagged wave. It is often used in conjunction with the **TagVal** function. You can pass the result of TagWaveRef to any function that takes a Wave parameter.

Examples

Show the name of the data folder containing the tagged wave:

```
Tag wave0, 0,"\\ON is in \\{\"%s\",GetWavesDataFolder(TagWaveRef(),0)}"
```

See Also

The **Tag** operation, the **TagVal** function

For a discussion of wave references, see **Wave Reference Functions** on page IV-197.

tan

tan(*angle*)

The tan function returns the tangent of *angle* which is in radians.

In complex expressions, *angle* is complex, and tan(*angle*) returns a complex value:

$$\tan(x+iy)=\frac{\sin(\mathrm{x+iy})}{\cos(x+iy)}=\frac{\sin(2x)+i\sinh(2y)}{\cos(2x)+\cosh(2y)}.$$

See Also

atan, **atan2**, **sin**, **cos**, **sec**, **csc**, **cot**

tanh

tanh(*num*)

The tanh function returns the hyperbolic tangent of *num*:

$$\tanh(x)=\frac{e^{x}-e^{-x}}{e^{x}+e^{-x}}.$$

In complex expressions, *num* is complex, and tanh(*num*) returns a complex value.

See Also

sinh, **cosh**, **coth**

Text2Bezier

Text2Bezier[*flags*] *fontNameStr*, *fstyle*, *textStr*, *xWaveName*, *yWaveName*

The Text2Bezier operation creates the data for a Bezier curve corresponding to the outline of some text using the supplied font information. The output waves are formatted to be drawn using Igor's DrawBezier operation.