Cross

Cross [**/DEST=destWave /FREE /T /Z**] ***vectorA, vectorB*** [**,** ***vectorC***]

The Cross operation computes the cross products *vectorA* x *vectorB* and *vectorA* x (*vectorB* x *vectorC*). Each vector is a 1D real wave containing 3 rows. Stores the result in the wave W_Cross in the current data folder.

Flags

/DEST=*destWave*	Stores the cross product in the wave specified by *destWave*.
	The destination wave is overwritten if it exists.
	The destination wave must be different from the input waves.
	The operation creates a wave reference for the destination wave if called in a user-defined function. See **Automatic Creation of WAVE References** on page IV-72 for details.
	If you omit /DEST, the operation stores the result in the wave W_Cross in the current data folder.
	Requires Igor7 or later.
/FREE	When used with /DEST, the destination wave is created as a free wave. See **Free Waves** on page IV-91 for details on free waves.
	/FREE is allowed in user-defined functions only.
	Requires Igor7 or later.
/T	Stores output in a row instead of a column in W_Cross.
/Z	Generates no errors for any unsuitable inputs.

csc

csc(*angle*)

The csc function returns the cosecant of *angle* which is in radians.

$$\csc(x) = \frac{1}{\sin(x)}.$$

In complex expressions, *angle* is complex, and csc(*angle*) returns a complex value.

See Also

sin, **cos**, **tan**, **sec**, **cot**

csch

csch(*x*)

The csch function returns the hyperbolic cosecant of *x*.

$$\operatorname{csch}(x) = \frac{1}{\sinh(x)} = \frac{2}{e^{x} - e^{-x}}.$$

In complex expressions, *x* is complex, and csch(*x*) returns a complex value.

See Also

cosh, **tanh**, **coth**, **sech**