See Also
Chapter III-12, **Statistics** for a function and operation overview; the **StatsVonMisesPDF** and **StatsVonMisesNoise** functions.

StatsInvWeibullCDF

StatsInvWeibullCDF(*cdf*, *m*, *s*, *g*)
The StatsInvWeibullCDF function returns the inverse of the Weibull cumulative distribution function

$$x = \mu + \sigma\left[-\ln\left(1 - cdf\right)\right]^{1/\gamma}.$$

See Also
Chapter III-12, **Statistics** for a function and operation overview; the **StatsWeibullCDF** and **StatsWeibullPDF** functions.

StatsJBTest

StatsJBTest [***flags***] ***srcWave***
The StatsJBTest operation performs the Jarque-Bera test on *srcWave*. Output is to the W_JBResults wave in the current data folder.

Flags

/ALPH = *val*	Sets the significance level (default *val*=0.05).
/Q	No results printed in the history area.
/T=*k*	Displays results in a table. *k* specifies the table behavior when it is closed. *k*=0: Normal with dialog (default). *k*=1: Kills with no dialog. *k*=2: Disables killing.
/Z	Ignores errors. V_flag will be set to -1 for any error and to zero otherwise.

Details
StatsJBTest computes the Jarque-Bera statistic

$$JB = \frac{n}{6}\left(S^2 + \frac{K^2}{4}\right),$$

where *S* is the skewness, *K* is the kurtosis, and *n* is the number of points in the input wave. We can express *S* and *K* terms of the *j*th moment of the distribution for n samples X_i

$$\mu_j = \frac{1}{n}\sum_{i=1}^{n}(X_i - \bar{X})^j$$

as

$$S = \frac{\mu_3}{\left(\mu_2\right)^{3/2}},$$

and