FinCoKurt

Updated: 31 Mar 2016

Use the aggregate function FinCoKurt to calculate the cokurtosis of an asset return and a benchmark return. FinCoKurt is calculated as:

$$\mathrm{FinCoKurt} = \frac{\sum_{i=1}^{n}(\mathrm{Ra}_i - \overline{\mathrm{Ra}})(\mathrm{Rb}_i - \overline{\mathrm{Rb}})^3}{n}$$

Where

Ra	=	asset return
Rb	=	benchmark return
$\overline{\mathrm{Ra}}$	=	average asset return
$\overline{\mathrm{Rb}}$	=	average benchmark return
n	=	number of observations

Syntax

```
Public Shared Function FinCoKurt(
    ByVal Ra As Double(),
    ByVal Rb As Double(),)
```

Arguments

Ra

the asset return for a period; the percentage return in floating point format (i.e. 10% = 0.10). *Ra* is an expression that returns an Array of **Double**, or of a type that can be implicitly converted to an Array of **Double**.

Rb

the benchmark return for a period; the percentage return in floating point format (i.e. 10% = 0.10). *Rb* is an expression that returns an Array of **Double**, or of a type that can be implicitly converted to an Array of **Double**.

Return Type

Double

Remarks

- If *Ra* IS NULL or *Rb* IS NULL then that row is not included in the calculation.
- If n = 0 then NULL is returned.

See Also

- BetaCoKurt - Calculate the beta-cokurtosis of an asset return and a benchmark return
- BetaCoSkew - Calculate the beta-coskewness of an asset return and a benchmark return
- BetaCoVar - Calculate the beta-covariance of an asset return and a benchmark return
- DownsideDeviation - Calculate the downside deviation of asset returns
- DownsideFrequency - Calculate the downside frequency of asset returns

- DownsidePotential - Calculate the downside potential of asset returns
- FinCoSkew - Calculate the coskewness of an asset return and a benchmark return
- Omega - Calculate the Omega of asset returns
- OmegaExcessReturn - Calculate the Omega Excess Return
- OmegaSharpeRatio - Calculate the Omega-Sharpe ratio of asset returns
- SemiDeviation - Calculate the semi-deviation of asset returns
- SemiVariance - Calculate the semi-variance of asset returns
- SpecificRisk - Calculate Specific Risk, the standard deviation of the error term in the regression equation
- SystematicRisk - Calculate the Systematic Risk
- TotalRisk - Calculate Total Risk
- UpsideFrequency - Calculate the upside frequency of asset returns
- UpsidePotentialRatio - Calculate the Upside Potential Ratio
- UpsideRisk - Calculate the Upside Risk, Upside Variance or Upside Deviation