NDK XKURT

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- C/C++
- .Net

Calculates the sample excess kurtosis.

Return values

```
NDK_SUCCESSOperation successful

NDK FAILED Operation unsuccessful. See Macros for full list.
```

Parameters

[in] **X** is the input data sample (a one dimensional array).

[in] N is the number of observations in X.

[in] reservedThis parameter is reserved and must be 1.

[out] retVal is the calculated sample excess-kurtosis value.

Remarks

- 1. The data sample may include missing values (e.g. #N/A).
- 2. Using a given data sample, the sample excess kurtosis is calculated as:

 $\int K(x) = \frac{t=1}^T(x_t-\bar x)^4}{(T-1)\hat x^4}.$

where:

- \(\hat K(x)\) is the sample excess kurtosis.
- \(x_i\) is the i-th non-missing value in the data sample.
- \(T\) is the number of non-missing values in the data sample.
- \(\hat \sigma\) is the sample standard deviation.

Requirements

Header	SFSDK.H
Library	SFSDK.LIB
DLL	SFSDK.DLL

Examples

```
int NDK_XKURT(double[] pData,

UIntPtr nSize,

short argMenthod,

ref double retVal
```

Namespace: NumXLAPI

Class: SFSDK Scope: Public Lifetime: Static

Calculates the sample excess kurtosis.

Return Value

a value from NDK RETCODE enumeration for the status of the call.

NDK_SUCCESS operation successful

Error Code

Parameters

[in] **pData** is the input data sample (a one dimensional array).

 $\label{eq:lining_potential} \mbox{is the number of observations in pData}.$

[in] argMenthodThis parameter is reserved and must be 1.

[out] retVal is the calculated sample excess-kurtosis value.

Remarks

- 1. The data sample may include missing values (e.g. #N/A).
- 2. Using a given data sample, the sample excess kurtosis is calculated as:

 $\int K(x) = \frac{t=1}^T(x_t-\bar x)^4}{(T-1)\hat x^4}.$

where:

- \(\hat K(x)\) is the sample excess kurtosis.
- \(x_i\) is the i-th non-missing value in the data sample.
- \(T\) is the number of non-missing values in the data sample.
- \(\hat \sigma\) is the sample standard deviation.

Exceptions

Exception Type	Condition
None	N/A

Requirements

Namespace	NumXLAPI
Class	SFSDK
Scope	Public
Lifetime	Static
Package	NumXLAPI.DLL

Examples

References

Hull, John C.; Options, Futures and Other Derivatives Financial Times/ Prentice Hall (2011), ISBN 978-0132777421

See Also

[template("related")]