

NDK_ACF_ERROR

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- C/C++
- .Net

```
int __stdcall NDK_ACF_ERROR(double * X,  
                           size_t   N,  
                           size_t   K,  
                           double * retVal  
)
```

Calculates the standard error in the sample autocorrelation function.

Returns

status code of the operation

Return values

NDK_SUCCESS Operation successful

NDK_FAILED Operation unsuccessful. See [Macros](#) for full list.

Parameters

[in] **X** is the univariate time series data (a one dimensional array).
[in] **N** is the number of observations in X.
[in] **K** is the lag order (e.g. k=0 (no lag), k=1 (1st lag), etc.).
[out] **retVal** is the standard error in the sample auto correlation value.

Remarks

- The time series is homogeneous or equally spaced.
- The time series may include missing values (e.g. NaN) at either end.
- The lag order (k) must be less than the time series size, or else an error value (NDK_INVALID_VALUE=-302) is returned.

Requirements

Header	SFSdk.H
Library	SFSdk.Lib
DLL	SFSdk.Dll

Examples

```

#include "SFM_macros.h"
#include "SFSDK.h"

// Input time series: 110 observation
double data[110]={0.23, 0.24, 0.45, ..., 0.95}

int nRet = NDK_FAILED;
double retVal = -2.0f;
nRet = NDK_ACF_ERROR(data, 110, 1, &retVal);
if( nRet < NDK_SUCCESS) {
    // Error occurred
    // Call NDK_MSG to retrieve description of the error, and write it to the log
    file
    ....
}

```

```

int NDK_ACF_ERROR(double[] pData,
                  UIntPtr nSize,
                  int nLag,
                  out double retVal
)

```

Namespace: NumXLAPI
Class: SFSDK
Scope: Public
Lifetime: Static

Calculates the standard error in the sample autocorrelation function.

Return Value

a value from **NDK_RETCODE** enumeration for the status of the call.

NDK_SUCCESS operation successful

Error	Error Code
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Parameters

- [in] **pData** is the univariate time series data (a one dimensional array).
- [in] **nSize** is the number of observations in pData.
- [in] **nLag** is the lag order (e.g. nLag=0 (no lag), nLag=1 (1st lag), etc.).
- [out] **retVal** is the standard error in the sample auto correlation value.

Remarks

- The time series is homogeneous or equally spaced.
- The time series may include missing values (e.g. NaN) at either end.
- The lag order (nLag) must be less than the time series size, or else an error value

(NDK_INVALID_VALUE=-302) is returned.

Exceptions

Exception Type	Condition
None	N/A

Requirements

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

Examples



References

- Hamilton, J .D.; [Time Series Analysis](#) , Princeton University Press (1994), ISBN 0-691-04289-6
Tsay, Ruey S.; [Analysis of Financial Time Series](#) John Wiley & SONS. (2005), ISBN 0-471-690740

See Also

[template("related")]