

NDK_HISTOGRAM

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- C/C++
 - .Net

```
int __stdcall NDK_HISTOGRAM(double * pData,  
                           size_t    nSize,  
                           size_t    nBins,  
                           size_t    index,  
                           WORD     argRetType,  
                           double * retVal  
)
```

Calculates the histogram or cumulative histogram function for a given bin.

Returns

status code of the operation

Return values

NDK_SUCCESS Operation successful

NDK_FAILED Operation unsuccessful. See [SFMacros.h](#) for more details.

See Also

NDK_HISTOGRAM()

Parameters

[in] **pData** is the input data series (one/two dimensional array).
[in] **nSize** is the number of elements in pData.
[in] **nBins** is the input number of bins for the histogram.
[in] **index** is the bin index or order; e.g. 0=1st bin (default),1=2nd bin,..., N.
[in] **argRetTYpe** is a switch to select the return output: 0. histogram
1. cumulative histogram (default)).
[out] **retVal** is the computed value.

```
int NDK_HISTOGRAM(double[] pData,  
                    UIntPtr nSize,  
                    UIntPtr nBins,  
                    UIntPtr index,  
                    short argRetType,  
                    ref double retVal  
)
```

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

Calculates the histogram or cumulative histogram function for a given bin.

Return Value

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

NDK_SUCCESS operation successful

Error Error Code

Parameters

[in] **pData** is the input data series (one/two dimensional array).

[in] **nSize** is the number of elements in pData.

[in] **nBins** is the input number of bins for the histogram.

[in] **index** is the bin index or order; e.g. 0=1st bin (default), 1=2nd bin, ..., N.

[in] **argRetType** is a switch to select the return output: 0. histogram

1. cumulative histogram (default)).

[out] **retVal** is the computed value.

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")]