# NDK\_RMD

Last Modified on 07/06/2016 11:17 am CDT

- C/C++
- .Net

```
int __stdcall NDK_RMD(double * X,
size_t N,
WORD reserved,
double * retVal
)
```

Returns the sample relative mean difference.

## Returns

status code of the operation

## **Return values**

NDK\_SUCCESSOperation successful NDK\_FAILED Operation unsuccessful. See <u>Macros</u> for full list.

# Parameters

- [in] **X** is the input data sample (a one/two dimensional array).
- [in]  $\mathbf{N}$  is the number of observations in X.
- [in] **reserved**This parameter is reserved and must be 1.
- [out] **retVal** is the calculated value of this function.

## Remarks

1. The time series may include missing values (NaN), but they will not be included in the calculations.

2. The relative mean difference is defined in terms of the NDK\_MD as follows:

 $[mathrm{RMD} = frac{mathrm{MD}}{bar{x}}]$ 

Where:

- \(\bar{x}\) is the sample mean (average) of the time series.
- \(\mathrm{MD}\) is the mean difference of the time series.
- 3: The RMD is also equal to twice the NDK\_GINI.

#### Requirements

Header	SFSDK.H
Library	SFSDK.LIB

DLL	SFSDK.DLL		
Examples			
Lxamples			
NDK_RMD(double		Nam	nespace: NumXLAF
UIntPt	,		Class: SFSDK
short ref do	argMenthod, uble retVal		Scope: Public
)			
Returns the samp	le relative mean difference.		
Return Value			
teturn value			
a value from	n NDK_RETCODE enumeration for	the status of the call.	
NDK SUCC	ESS operation successful		
Error	Error Code		
Parameters			
[in] pDat	is the input data sample (a	one/two dimensional array).	
[in] <b>nSize</b> is the number of observations in pData.			
•	enthodThis parameter is reserved		
[out]retVa	is the calculated value of the	his function.	
Remarks			1.11.0
1. The time series may include missing values (NaN), but they will not be included in the			
	ve mean difference is defined in te	rms of the NDK_MD as follows	5:
	MD}= \frac{\mathrm{MD}}{\bar{x}}]		
Where:	) is the sample mean (average) of t	the time series	
	n{MD}) is the mean difference of t		
- it indefini			
3: The RMD	is also equal to twice the NDK_GI	NI.	
Exception	;		
[			

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 DerivativesFinancial Times/ Prentice Hall (2011), ISBN 978-0132777421

# See Also

[template("related")]