# NDK\_RMSE

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- C/C++
- .Net

Calculates the root mean squared error (aka root mean squared deviation (RMSD)) function.

#### Returns

status code of the operation

#### **Return values**

NDK\_SUCCESSOperation successfulNDK\_FAILEDOperation unsuccessful. See Macros for full list.

#### Parameters

- [in] **X** is the original (eventual outcomes) time series sample data (a one dimensional array).
- [in] Y is the forecast time series data (a one dimensional array).
- [in]  $\mathbf{N}$  is the number of observations in X.
- [in] **retType**is a switch to select the return output (1=RMSE (default), 2=NRMSE, 3=CV(RMSE)).
- [out] retVal is the calculated value of this function.

#### Remarks

- 1. The RMSE is also known as root mean squared deviation (RMSD).
- 2. Please see NDK\_RMSD for definition and notes.

#### Requirements

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

Examples	
int NDK_RMSE(double[] pData1, double[] pData2, UIntPtr nSize, short retType, ref double retVal )	Namespace: NumXLAPI Class: SFSDK Scope: Public Lifetime: Static
Calculates the root mean squared error (aka root mean squared deviation (RM Return Value a value from NDK_RETCODE enumeration for the status of the call. NDK_SUCCESS operation successful Error Error Code	MSD)) function.
<pre>Parameters [in] pData1 is the original (eventual outcomes) time series sample data array). [in] pData2 is the forecast time series data (a one dimensional array) [in] nSize is the number of observations in X. [in] retType is a switch to select the return output (1=RMSE (default))</pre>	<i>(</i> ).
Remarks <ol> <li>The RMSE is also known as root mean squared deviation (RMSD).</li> <li>Please see NDK_RMSD for definition and notes.</li> </ol>	

## Exceptions

Exception Type	Condition
None	N/A

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")]