NDK FARIMA FORE

Last Modified on 07/08/2016 11:38 am CDT

- C/C++
- .Net

Calculates the out-of-sample forecast statistics.

Returns

status code of the operation

Return values

NDK_SUCCESS Operation successful

NDK FAILED Operation unsuccessful. See Macros for full list.

Parameters

[in] pData	is the univariate time series data (a one dimensional array).
[in] nSize	is the number of observations in pData.
[in] mean	is the ARMA model mean (i.e. mu).

[in] **sigma** is the standard deviation of the model's residuals/innovations.

[in] **nIntegral** is the model's integration order.

[in] **phis** are the parameters of the AR(p) component model (starting with the lowest lag).

[in] **p** is the number of elements in phis (order of AR component)

[in] **thetas** are the parameters of the MA(q) component model (starting with the lowest lag).

[in] **q** is the number of elements in thetas (order of MA component)

[in] **nStep** is the forecast time/horizon (expressed in terms of steps beyond end of the time series).

[in] retType is a switch to select the type of value returned

Order Description

- 1 Mean forecast value (default)
- 2 Forecast standard error (aka local volatility)

- Volatility term structure 3
- 4 Lower limit of the forecast confidence interval
- 5 Upper limit of the forecast confidence interval

[in] alpha is the statistical significance level. If missing, a default of 5% is assumed. is the calculated forecast value

[out]retVal

Remarks

- 1. The underlying model is described here.
- 2. The time series is homogeneous or equally spaced
- 3. The time series may include missing values (e.g. NaN) at either end.

Requirements

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

Exampl	es
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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")]