NDK_PCR_FORE

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- <u>C/C++</u>
- <u>.Net</u>

intstdcall NDK_PCR_FORE (double **	Х,
	size_t	nXSize,
	size_t	nXVars,
	LPBYTE	mask,
	size_t	nMaskLen,
	double *	Υ,
	size_t	nYSize,
	double	intercept,
	double *	target,
	double	alpha,
	WORD	nRetType,
	double *	retVal
)		

Calculates the model's estimated values, std. errors and related statistics.

Returns

status code of the operation

Return values

NDK_SUCCESS	Operation successful
NDK_FAILED	Operation unsuccessful. See \underline{Macros} for full list.

Parameters

[in]	X	is the independent variables data matrix, such that each column represents one variable
[in]	nXSize	is the number of observations (i.e. rows) in X
[in]	nXVars	is the number of variables (i.e. columns) in X
[in]	mask	is the boolean array to select a subset of the input variables in X. If missing (i.e. NULL), all variables in X are included.
[in]	nMaskLen	is the number of elements in mask
[in]	Y	is the response or the dependent variable data array (one dimensional array)
[in]	nYSize	is the number of elements in Y
[in]	intercept	is the constant or the intercept value to fix (e.g. zero). If missing (NaN), an intercept will not be fixed and is computed normally

[in]	target	is the value of the explanatory variables (a one dimensional array)
[in]	alpha	is the statistical significance of the test (i.e. alpha)
[in]	nRetType	is a switch to select the return output (1 = forecast (default), 2 = error, 3
		upper limit, $4 = $ lower limit).

[out] retVal is the calculated forecast value or statistics.

Remarks

- 1. The underlying model is described **here**.
- 2. The sample data may include missing values.
- 3. Each column in the input matrix corresponds to a separate variable.
- 4. Each row in the input matrix corresponds to an observation.
- 5. Observations (i.e. row) with missing values in X or Y are removed.
- 6. The number of rows of the response variable (Y) must be equal to the snumber of rows of the explanatory variables (X).
- 7. The MLR_FORE function is available starting with version 1.60 APACHE.

Requirements

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References

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

See Also

[template("related")]