vec() — Stack matrix columns

Description Conformability Syntax Diagnostics Remarks and examples Also see

Description

Title

vec(T) returns T transformed into a column vector with one column stacked onto the next.

vech(T) returns square and typically symmetric matrix T transformed into a column vector; only the lower half of the matrix is recorded.

invvech(v) returns vech()-style column vector v transformed into a symmetric (Hermitian) matrix.

Syntax

transmorphic colvector vec(transmorphic matrix T)
transmorphic colvector vech(transmorphic matrix T)
transmorphic matrix invvech(transmorphic colvector v)

Remarks and examples

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Remarks are presented under the following headings:

Example of vec()
Example of vech() and invvech()

Example of vec()

:	х			
		1	2	3
	1 2	1 4	2 5	3 6
:	veo	c(x) 1		
	1 2 3 4 5 6	1 4 2 5 3 6		

Example of vech() and invvech()



Conformability

Diagnostics

vec(T) cannot fail.

vech(T) aborts with error if T is not square. vech() records only the lower triangle of T; it does not require T be symmetric.

invvech(v) aborts with error if v does not have 0, 1, 3, 6, 10, ... rows.

Also see

[M-4] Manipulation — Matrix manipulation

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