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spmatrix drop — List and delete weighting matrices stored in memory

Description Quick start Menu Syntax Remarks and examples Stored results Also see

Description

spmatrix dir lists the Sp weighting matrices stored in memory. spmatrix drop deletes a single Sp matrix from memory. spmatrix clear deletes all Sp matrices from memory.

Quick start

List weighting matrices stored in memory spmatrix dir

Drop weighting matrix Wd spmatrix drop Wd

Drop all weighting matrices spmatrix clear

Menu

Statistics > Spatial autoregressive models

Syntax

List the Sp weighting matrices stored in memory

spmatrix dir

Drop an Sp matrix from memory

spmatrix drop spmatname

Drop all weighting matrices from memory

spmatrix clear

spmatname is the name of an Sp weighting matrix stored in memory.

collect is allowed with spmatrix dir; see [U] 11.1.10 Prefix commands.

Remarks and examples

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Remarks are presented under the following headings:

```
spmatrix dir
Save and drop matrices you are not using
```

spmatrix dir

The spatial weighting matrices that you create are stored in memory. You create them with the following commands:

```
spmatrix create
spmatrix import
spmatrix fromdata
spmatrix userdefined
spmatrix spfrommata
```

spmatrix dir lists spatial weighting matrices names:

. spmatrix dir

Weighting matrix name	N x N	Туре	Normalization
Wc Wd	254 x 254 254 x 254	contiguity idistance	spectral spectral

When spmatrix dir reports that a matrix is a contiguity matrix, as it does with Wc, contiguity is used in its ex post sense. See [SP] spmatrix summarize or the [SP] Glossary for the definition of ex post contiguity matrices.

Save and drop matrices you are not using

Spatial weighting matrices are stored in memory, and they can consume a lot of it. The ones above consume a mere $254 \times 254 = 517128$ bytes each. Had the matrices been 3000×3000 , they would have consumed 69 megabytes each.

Spatial weighting matrices can be saved on disk. Any that you are not currently using, you can save to disk and drop from memory:

```
    spmatrix save Wc using wc
(matrix Wc saved in file wc.stswm)
    spmatrix drop Wc
```

All spatial weighting matrices are dropped when you type

```
. spmatrix clear
```

or

. clear mata

or

. clear all

The clear mata command also clears any Mata functions or objects in memory. The clear all command also clears any data in memory.

Stored results

```
spmatrix dir stores the following in r():
Macros
    r(names)
                         space-separated list of matrix names
```

Also see

- [SP] spmatrix Categorical guide to the spmatrix command
- [SP] spmatrix summarize Summarize weighting matrix stored in memory
- [SP] **Intro** Introduction to spatial data and SAR models
- [D] **clear** Clear memory

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