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spcompress — Compress Stata-format shapefile

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Description

spcompress creates a new Stata-format shapefile omitting places (geographical units) that do not appear in the Sp data in memory. The new shapefile will be named after the data in memory.

Quick start

```
Create new file new_shp.dta containing only cases identified by mysample from old_shp.dta
use old
keep if mysample
save new
spcompress
```

Menu

Statistics > Spatial autoregressive models

Syntax

```
spcompress [, force]
collect is allowed; see [U] 11.1.10 Prefix commands.
```

Option

force allows replacing an existing shapefile. force is the option name StataCorp uses when you should think twice before specifying it. In most cases, you want to create a new shapefile.

Remarks and examples

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Remarks are presented under the following headings:

Introduction
Using the force option

Introduction

In [SP] Intro 4 and [SP] Intro 7, we discussed how to find and prepare the analysis dataset, tl_2016_us_county_dta, and the shapefile dataset, tl_2016_us_county_shp.dta. We again use those datasets here.

You sometimes want to analyze a subset of the data. In those cases, you might type

All will work fine. File texas.dta is linked to t1_2016_us_county_shp.dta, which contains a lot of unnecessary information, but that will cause Sp no difficulty.

Next, you can type

. spcompress

Now, files t1_2016_us_county.dta and t1_2016_us_county_shp.dta remain unchanged, and file texas_shp.dta was created. texas.dta was resaved so that the copy on disk would reflect that it is now linked to texas_shp.dta instead of t1_2016_us_county_shp.dta.

Sp will run a little faster if we compress the shapefile. We say a little because only grmap will run faster.

Using the force option

Above, we showed an example. Here is what would have happened had we omitted the line save texas:

Whether you type save texas makes all the difference. Do you really want to replace tl_2016_us_county_shp.dta? If so, specify force.

The option is called force because Stata wonders whether you really meant to type

```
. use t1_2016_us_county, clear
. keep if STATEFP == "48"
(2,979 observations deleted)
. save texas
file texas.dta saved
. spcompress
  (texas_shp.dta created with 254 spatial units, 2,979 fewer than previously)
  (texas_shp.dta saved)
  (texas.dta saved)
```

Even if you intended to discard all but Texas from t1_2016_us_county.dta and tl_2016_us_county_shp.dta, we would recommend that you type

```
. use tl_2016_us_county
. keep if STATEFP == "48"
. save texas
. spcompress
. erase tl_2016_us_county.dta
. erase tl_2016_us_county_shp.dta
```

Stored results

```
spcompress stores the following in r():
Scalars
    r(num_drop_ids)
                         # of spatial units dropped
    r(num_ids)
                         # of spatial units remaining
```

Also see

```
[SP] Intro — Introduction to spatial data and SAR models
[D] compress — Compress data in memory
```

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