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THE STATA JOURNAL

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n.j.cox@stata-journal.com

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The Stata Journal (2006) 6, Number 3, pp. 428–429
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Stata tip 35: Detecting whether data have changed

William Gould StataCorp College Station, TX wgould@stata.com

Included in the 17 May 2006 update is a new command that you may find useful, datasignature. If you have installed the update, type help datasignature. If you have not updated, or are unsure, type update query to find out, and type update all to install.

Here is the result of running datasignature on auto.dta:

```
. sysuse auto
(1978 automobile data)
. datasig
  74:12(71728):3831085005:1395876116
```

The output is auto.dta's data signature. If you change the data, even just a little bit, the last two numbers will change:

```
. replace mpg = mpg + 1 in 2
(1 real change made)
. datasig
  74:12(71728):1616229321:1400086868
```

If you change the name of a variable, the last two numbers stay the same and the number inside the parentheses changes:

```
. rename mpg miles_per_gallon
. datasig
  74:12(57876):1616229321:1400086868
```

datasignature is designed to help those who use data maintained by others and those who worry that they might themselves have accidentally changed their data.

In the latter case, you could save the signature in the dataset,

```
. datasig
    74:12(57876):1616229321:1400086868
. note: 'r(datasignature)'
and check it later,
. notes
_dta:
    1. from Consumer Reports with permission
    2. 74:12(57876):1616229321:1400086868
```

W. Gould 429

Another idea is to include datasignature at the beginning of logs:

```
log using myfile, replace
sysuse auto, clear
datasig
...
log close
end myfile.do ——
```

You can specify a varlist and if and in, so if you have a large dataset and want to check just part of it, you can write

```
log using myfile, replace
sysuse auto, clear
datasig mpg weight price if foreign
...
log close
end myfile.do
```