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st_global() — Obtain strings from and put strings into global macros

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Description

st_global(name) returns the contents of the specified Stata global.

st_global (name, contents) sets or resets the contents of the specified Stata global. If the Stata global did not previously exist, a new global is created. If the global did exist, the new contents replace the old.

st_global(name, contents, hcat) and st_global_hcat(name) are used to set and query the hcat corresponding to an e() or r() value. They are also rarely used. See [R] **Stored results** and [P] **return** for more information.

Syntax

where

- 1. *name* is to contain
 - a. global macro such as "myname"
 - b. r() macro such as "r(names)"
 - c. e() macro such as "e(cmd)"
 - d. s() macro such as "s(vars)"
 - e. c() macro such as "c(current_date)"
 - f. dataset characteristic such as "_dta[date]"
 - g. variable characteristic such as "mpg[note]"
- 2. st_global(name) returns the contents of the specified Stata global. It returns "" when the global does not exist.
- 3. st_global(name, contents) sets or resets the contents of the specified Stata global.

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- 4. st_global(name, "") deletes the specified Stata global. It does this even if name is not a macro. st_global("r(N)", "") would delete r(N) whether it were a macro, scalar, or matrix.
- 5. st_global(name, contents, hcat) sets or resets the contents of the specified Stata global, and it sets or resets the hidden or historical status when name is an e() or r() value. Allowed hcat values are "visible", "hidden", "historical", and a string scalar release number such as such as "10", "10.1", or any string release number matching "#[#][.[#[#]]]". See [P] return for a description of hidden and historical r() and e() values.

When $st_global(name, contents)$ is used to set an e() or r() value, its *hcat* is set to "visible".

6. st_global_hcat(name) returns the hcat associated with an e() or r() value.

Remarks and examples

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Mata provides a suite of functions for obtaining and setting the contents of global macros, local macros, stored results, etc. It can sometimes be confusing to know which you should use. The table on the following page will help.

Stata component/action	Function call
Local macro	
obtain contents	<pre>contents = st_local("name")</pre>
create/set/replace	<pre>st_local("name", contents)</pre>
delete	st_local("name", "")
Global macro	
obtain contents	<pre>contents = st_global("name")</pre>
create/set/replace	<pre>st_global("name", contents)</pre>
delete	st_global("name", "")
Global numeric scalar	
obtain contents	<pre>value = st_numscalar("name")</pre>
create/set/replace	<pre>st_numscalar("name", value)</pre>
delete	st_numscalar("name", J(0,0,.))
Global string scalar	
obtain contents	<pre>contents = st_strscalar("name")</pre>
create/set/replace	<pre>st_strscalar("name", contents)</pre>
delete	st_strscalar("name", J(0,0,""))
Global matrix	
obtain contents	<pre>matrix = st_matrix("name") rowlabel = st_matrixrowstripe("name") collabel = st_matrixcolstripe("name")</pre>
create/set/replace	<pre>st_matrix("name", matrix) st_matrixrowstripe("name", rowlabel) st_matrixcolstripe("name", collabel)</pre>
replace	<pre>st_replacematrix("name", matrix)</pre>
delete	st_matrix("name", J(0,0,.))
Characteristic	
obtain contents	<pre>contents = st_global("name[name]")</pre>
create/set/replace	<pre>st_global("name[name]", contents)</pre>
delete	st_global("name[name]", "")

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Stata component/action	Function call
r() results	
macro	
obtain contents create/set/replace	<pre>contents = st_global("r(name)") st_global("r(name)", contents)</pre>
numeric scalar	
obtain contents	<pre>value = st_numscalar("r(name)")</pre>
create/set/replace	st_numscalar("r(name)", value)
matrix	
obtain contents	<pre>matrix = st_matrix("r(name)")</pre>
	<pre>rowlabel = st_matrixrowstripe("r(name)")</pre>
	<pre>collabel = st_matrixcolstripe("r(name)")</pre>
create/set/replace	st_matrix("r(name)", matrix)
	<pre>st_matrixrowstripe("r(name)", rowlabel)</pre>
	<pre>st_matrixcolstripe("r(name)", collabel)</pre>
replace	<pre>st_replacematrix("r(name)", matrix)</pre>
IN ALL CASES	
delete	<pre>st_global("r(name)", "")</pre>
to delete all of r()	st_rclear()
e() results	<pre>same as r() results, but code e(name) and st_eclear()</pre>
s() results	
macro	
obtain contents	<pre>contents = st_global("s(name)")</pre>
create/set/replace	<pre>st_global("s(name)", contents)</pre>
delete	<pre>st_global("s(name)", "")</pre>
to delete all of s()	st_sclear()
c() results	
macro	
obtain contents	<pre>contents = st_global("c(name)")</pre>
numeric scalar	
obtain contents	<pre>value = st_numscalar("c(name)")</pre>

See [M-5] $st_local()$, [M-5] $st_numscalar()$, [M-5] $st_matrix()$, and [M-5] $st_rclear()$.

Conformability

```
st_global(name):
              name:
                            1 \times 1
              result:
                            1 \times 1
st_global(name, contents):
              name:
                            1 \times 1
                            1 \times 1
           contents:
                            void
              result:
st_global(name, contents, hcat):
              name:
                            1 \times 1
           contents:
                            1 \times 1
                            1 \times 1
               hcat:
              result:
                            void
st_global_hcat(name):
              name:
                            1 \times 1
              result:
                            1 \times 1
```

Diagnostics

st_global(name) returns "" if the name contained in name is not defined. st_global(name) aborts with error if the name is malformed, such as st_global("invalid name").

st_global(name, contents) aborts with error if the name contained in name is malformed. The maximum length of strings in Mata is significantly longer than in Stata. st_global() truncates what is stored at the appropriate maximum length if that is necessary.

st_global_hcat(name) returns "visible" when name is not an e() or r() value and returns
"" when name is an e() or r() value that does not exist.

Reference

Gould, W. W. 2008. Mata Matters: Macros. Stata Journal 8: 401-412.

Also see

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[M-5] st_rclear() — Clear r(), e(), or s()
[M-4] Stata — Stata interface functions
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