st\_tempname() — Temporary Stata names

Description Syntax Remarks and examples Conformability Diagnostics Also see

## Description

st\_tempname() returns a Stata temporary name, the same as would be returned by Stata's tempvar and tempname commands; see [P] macro.

st\_tempname(n) returns n temporary Stata names,  $n \ge 0$ .

st\_tempfilename() returns a Stata temporary filename, the same as would be returned by Stata's tempfile command; see [P] macro.

st\_tempfilename(n) returns n temporary filenames,  $n \ge 0$ .

### Syntax

string scalar	st_tempname()
string rowvector	<pre>st_tempname(real scalar n)</pre>
string scalar	<pre>st_tempfilename()</pre>
string rowvector	<pre>st_tempfilename(real scalar n)</pre>

## **Remarks and examples**

Remarks are presented under the following headings:

```
Creating temporary objects
When temporary objects will be eliminated
```

#### Creating temporary objects

st\_tempname()s can be used to name Stata's variables, matrices, and scalars. Although in Stata a distinction is drawn between tempvars and tempnames, there is no real distinction, and so st\_tempname() handles both in Mata. For instance, one can create a temporary variable by coding

```
idx = st_addvar("double", st_tempname())
```

See [M-5] st\_addvar().

One creates a temporary file by coding

```
fh = fopen(st_tempfilename(), "w")
```

See [M-5] fopen().

#### When temporary objects will be eliminated

Temporary objects do not vanish when the Mata function ends, nor when Mata itself ends. They are removed when the ado-file (or do-file) calling Mata terminates.

Forget Mata for a minute. Stata eliminates temporary variables and files when the program that created them ends. That same rule applies to Mata: Stata eliminates them, not Mata, and that means that the ado-file or do-file that called Mata will eliminate them when that ado-file or do-file ends. Temporary variables and files are not eliminated by Mata when the Mata function ends. Thus Mata functions can create temporary objects for use by their ado-file callers, should that prove useful.

# Conformability

```
st_tempname(), st_tempfilename():
    result: 1 × 1
st_tempname(n), st_tempfilename(n):
        n: 1 × 1
        result: 1 × n
```

# Diagnostics

st\_tempname (n) and st\_tempfilename (n) abort with error if n < 0 and return J(1,0,"") if n = 0.

# Also see

[M-5] st\_addvar() — Add variable to current Stata dataset

[M-4] Stata — Stata interface functions

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