**st_rclear()** — Clear r( ), e( ), or s( )

## Description

st_rclear() clears Stata's r() stored results.

st_eclear() clears Stata's e() stored results.

st_sclear() clears Stata's s() stored results.

## Syntax

>        *void*   st_rclear()
>
>        *void*   st_eclear()
>
>        *void*   st_sclear()

## Remarks and examples [stata.com](stata.com)

Returning results in r(), e(), or s() is one way of communicating results calculated in Mata back to Stata; see [M-1] **Ado**. See [R] **Stored results** for a description of e(), r(), and s().

Use st_rclear(), st_eclear(), or st_sclear() to clear results, and then use st_global() to define macros, st_numscalar() to define scalars, and st_matrix() to define Stata matrices in r(), e(), or s(). For example,

```
st_rclear()
st_global("r(name)", "tab")       see [M-5] st_global( )
st_numscalar("r(N)", n1+n2)       see [M-5] st_numscalar( )
st_matrix("r(table)", X+Y)        see [M-5] st_matrix( )
```

It is not necessary to clear before saving, but it is considered good style unless it is your intention to add to previously stored results.

If a stored result already exists, st_global(), st_numscalar(), and st_matrix() may be used to redefine it and even to redefine it to a different type. For instance, continuing with our example, later in the same code might appear

```
if (...) {
    st_matrix("r(name)", X)
}
```

Stored result r(name) was previously defined as a macro containing "tab", and, even so, can now be redefined to become a matrix.

If you want to eliminate a particular stored result, use st_global( ) to change its contents to "":

```
st_global("r(name)", "")
```

Do this regardless of the type of the stored result. Here we use st_global( ) to clear stored result r(name), which might be a macro and might be a matrix.

## Conformability

st_rclear( ), st_eclear( ), and st_sclear( ) take no arguments and return void.

## Diagnostics

st_rclear( ), st_eclear( ), and st_sclear( ) cannot fail.

## Also see

[M-5] **st_global( )** — Obtain strings from and put strings into global macros

[M-5] **st_matrix( )** — Obtain and put Stata matrices

[M-5] **st_numscalar( )** — Obtain values from and put values into Stata scalars

[M-4] **Stata** — Stata interface functions