**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**

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