### Syntax

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Description</th>
<th>Remarks and examples</th>
<th>Conformability</th>
</tr>
</thead>
<tbody>
<tr>
<td>void st_rclear()</td>
<td>clear r() stored results.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>void st_eclear()</td>
<td>clear e() stored results.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>void st_sclear()</td>
<td>clear s() stored results.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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.

### 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,

```stata
    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

```stata
    if (...) {
        st_matrix("r(name)", X)
    }
```
2  

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

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

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

\[
\texttt{st\_global("r(name)", "")}
\]

Do this regardless of the type of the stored result. Here we use \texttt{st\_global()} to clear stored result \( r(name) \), which might be a macro and might be a matrix.

**Conformability**

\texttt{st\_rclear()}, \texttt{st\_eclear()}, and \texttt{st\_sclear()} take no arguments and return void.

**Diagnostics**

\texttt{st\_rclear()}, \texttt{st\_eclear()}, and \texttt{st\_sclear()} cannot fail.

**Also see**

[M-5] \texttt{st\_global()} — Obtain strings from and put strings into global macros

[M-5] \texttt{st\_numscalar()} — Obtain values from and put values into Stata scalars

[M-5] \texttt{st\_matrix()} — Obtain and put Stata matrices

[M-4] \texttt{stata} — Stata interface functions