Description

\texttt{st_rclear()} clears Stata’s \texttt{r()} stored results.
\texttt{st_eclear()} clears Stata’s \texttt{e()} stored results.
\texttt{st_sclear()} clears Stata’s \texttt{s()} stored results.

Syntax

\begin{verbatim}
void st_rclear()
void st_eclear()
void st_sclear()
\end{verbatim}

Remarks and examples

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

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

\begin{verbatim}
    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()
\end{verbatim}

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, \texttt{st_global()}, \texttt{st_numscalar()}, and \texttt{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

\begin{verbatim}
if (...) {
    st_matrix("r(name)", X)
}
\end{verbatim}
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_local()` to change its contents to "":

```st_local("r(name)", "")```

Do this regardless of the type of the stored result. Here we use `st_local()` 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_local()` — 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