

gsem postestimation — Postestimation tools for gsem

[Postestimation commands](#)
[margins](#)
[Remarks and examples](#)
[Also see](#)

Postestimation commands

The following are the postestimation commands that you can use after estimation by `gsem`:

Command	Description
<code>estat eform</code>	display exponentiated coefficients
<code>estat ic</code>	Akaike's, consistent Akaike's, corrected Akaike's, and Schwarz's Bayesian information criteria (AIC, CAIC, AICc, and BIC)
<code>estat lcgof</code>	latent class goodness-of-fit statistic
<code>estat lcmean</code>	latent class marginal means
<code>estat lcprob</code>	latent class marginal probabilities
<code>estat sd</code>	display variance components as standard deviations and correlations
* <code>hausman</code>	Hausman's specification test
* <code>lrtest</code>	likelihood-ratio tests
<code>test</code>	Wald tests
<code>lincom</code>	linear combination of parameters
<code>nlcom</code>	nonlinear combination of parameters
<code>testnl</code>	Wald tests of nonlinear hypotheses
<code>estat summarize</code>	summary statistics for the estimation sample
<code>estat vce</code>	variance–covariance matrix of the estimators (VCE)
<code>predict</code>	means, probabilities, densities, latents, etc.
<code>predictnl</code>	point estimates, standard errors, testing, and inference for generalized predictions
<code>margins</code>	marginal means, predictive margins, marginal effects, and average marginal effects
<code>marginsplot</code>	graph the results from margins (profile plots, interaction plots, etc.)
<code>contrast</code>	contrasts and linear hypothesis tests
<code>pwcompare</code>	pairwise comparisons
<code>estimates</code>	cataloging estimation results
<code>etable</code>	table of estimation results

*`hausman` and `lrtest` are not appropriate with `svy` estimation results.

For a summary of postestimation features, see [\[SEM\] Intro 7](#).

Postestimation commands such `lincom` and `nlcom` require referencing estimated parameter values, which are accessible via `_b[name]`. To find out what the names are, type `sem, coeflegend`.

margins

Description for margins

`margins` estimates margins of response for expected values, probabilities, and predictions.

Menu for margins

Statistics > Postestimation

Syntax for margins

```
margins [marginlist] [, options]
```

```
margins [marginlist] , predict(statistic ...) [predict(statistic ...) ...] [options]
```

<i>statistic</i>	Description
default	calculate expected values for each <i>depvar</i>
mu	calculate expected value of <i>depvar</i>
pr	calculate probability (synonym for mu when μ is a probability)
eta	calculate expected value of linear prediction of <i>depvar</i>
<u>expression</u> (<i>exp</i>)	calculate prediction using <i>exp</i>
<u>classpr</u>	calculate latent class probabilities
<u>density</u>	not allowed with margins
<u>distribution</u>	not allowed with margins
<u>survival</u>	not allowed with margins
latent	not allowed with margins
latent(<i>varlist</i>)	not allowed with margins
<u>classposteriorpr</u>	not allowed with margins

mu defaults to the first *depvar* if option `outcome()` is not specified. If *depvar* is `family(multinomial)` or `family(ordinal)` the default is the first level of the outcome.

pr defaults to the first *depvar* that allows predicted probabilities if option `outcome()` is not specified. If *depvar* is `family(multinomial)` or `family(ordinal)` the default is the first level of the outcome.

eta defaults to the first *depvar* if option `outcome()` is not specified. If *depvar* is `family(multinomial)` the default is the first level of the outcome.

`classpr` defaults to the first latent class if option `class()` is not specified.

`predict`'s option `marginal` is assumed if `predict`'s options `conditional(fixedonly)` and `class()` are not specified; see [SEM] **predict after gsem**.

Statistics not allowed with margins are functions of stochastic quantities other than $e(b)$.

For the full syntax, see [R] **margins**.

Remarks and examples

[stata.com](http://www.stata.com)

This manual entry concerns `gsem`. For information on postestimation features available after `sem`, see [SEM] **sem postestimation**.

Also see

[SEM] [gsem reporting options](#) — Options affecting reporting of results

[U] [20 Estimation and postestimation commands](#)

Stata, Stata Press, and Mata are registered trademarks of StataCorp LLC. Stata and Stata Press are registered trademarks with the World Intellectual Property Organization of the United Nations. StataNow and NetCourseNow are trademarks of StataCorp LLC. Other brand and product names are registered trademarks or trademarks of their respective companies. Copyright © 1985–2023 StataCorp LLC, College Station, TX, USA. All rights reserved.



For suggested citations, see the FAQ on [citing Stata documentation](#).