

**gsem postestimation** — Postestimation tools for gsem

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## 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 and Schwarz's Bayesian information criteria (AIC 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>	generalized linear predictions, 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

\* `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 $\mu$ 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