

**sem postestimation** — Postestimation tools for sem

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

## Postestimation commands

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

Command	Description
<code>estat framework</code>	display results in modeling framework (matrix form)
<code>estat gof</code>	overall goodness of fit
<code>estat ggof</code>	group-level goodness of fit
<code>estat egof</code>	equation-level goodness of fit
<code>estat residuals</code>	matrices of residuals
<code>estat ic</code>	Akaike's, consistent Akaike's, corrected Akaike's, and Schwarz's Bayesian information criteria (AIC, CAIC, AICc, and BIC)
* <code>hausman</code>	Hausman's specification test
<code>estat mindices</code>	modification indices (score tests)
<code>estat scoretests</code>	score tests
<code>estat ginvariant</code>	test of invariance of parameters across groups
<code>estat eqtest</code>	equation-level Wald tests
* <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 stdize</code>	test standardized parameters
<code>estat teffects</code>	decomposition of effects
<code>estat stable</code>	assess stability of nonrecursive systems
<code>estat summarize</code>	summary statistics for the estimation sample
<code>estat vce</code>	variance–covariance matrix of the estimators (VCE)
<code>predict</code>	factor scores, predictions for observed and latent variables, etc.
<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>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 linear predictions.

### Menu for margins

Statistics > Postestimation

### Syntax for margins

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

<i>statistic</i>	Description
default	linear predictions for all OEn variables
<code>xb(varname)</code>	linear prediction for the specified OEn variable
<code>xb</code>	not syntactically compatible with <code>margins</code>
<code>xblatent</code>	not allowed with <code>margins</code>
<code>xblatent(varlist)</code>	not allowed with <code>margins</code>
<code>latent</code>	not allowed with <code>margins</code>
<code>latent(varlist)</code>	not allowed with <code>margins</code>
<code>scores</code>	not allowed with <code>margins</code>

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Key: OEn = observed endogenous

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](https://www.stata.com)

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

### Reference

Baldwin, S. 2019. *Psychological Statistics and Psychometrics Using Stata*. College Station, TX: Stata Press.

## Also see

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

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