

estat framework — Display estimation results in modeling framework

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Description

`estat framework` is a postestimation command for use after `sem` but not `gsem`.

`estat framework` displays the estimation results as a series of matrices derived from the Bentler–Weeks form; see [Bentler and Weeks \(1980\)](#).

Menu

Statistics > SEM (structural equation modeling) > Other > Report model framework

Syntax

```
estat framework [ , options ]
```

<i>options</i>	Description
<code>standardized</code>	report standardized results
<code>compact</code>	display matrices in compact form
<code>fitted</code>	include fitted means, variances, and covariances
<code>format(<i>%fmt</i>)</code>	display format to use

Options

`standardized` reports results in standardized form.

`compact` displays matrices in compact form. Zero matrices are displayed as a description. Diagonal matrices are shown as a row vector.

`fitted` displays the fitted mean and covariance values.

`format(%fmt)` specifies the display format to be used. The default is `format(%9.0g)`.

Remarks and examples

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See [\[SEM\] example 11](#).

□ Technical note

If `sem`'s `nm1` option was specified when the model was fit, all covariance matrices are calculated using $N - 1$ in the denominator instead of N .

□

Stored results

`estat framework` stores the following in `r()`:

Scalars

`r(N_groups)` number of groups
`r(standardized)` indicator of standardized results (+)

Matrices

`r(nobs)` sample size for each group
`r(Beta[_#])` coefficients of endogenous variables on endogenous variables (for group #)
`r(Gamma[_#])` coefficients of endogenous variables on exogenous variables (for group #)
`r(alpha[_#])` intercepts (for group #) (*)
`r(Psi[_#])` covariances of errors (for group #)
`r(Phi[_#])` covariances of exogenous variables (for group #)
`r(kappa[_#])` means of exogenous variables (for group #) (*)
`r(Sigma[_#])` fitted covariances (for group #)
`r(mu[_#])` fitted means (for group #) (*)

(+) If `r(standardized)=1`, the returned matrices contain standardized values.

(*) If there are no estimated means or intercepts in the `sem` model, these matrices are not returned.

Reference

Bentler, P. M., and D. G. Weeks. 1980. Linear structural equations with latent variables. *Psychometrika* 45: 289–308.

Also see

[SEM] [example 11](#) — estat framework

[SEM] [intro 7](#) — Postestimation tests and predictions (*Replaying the model (sem and gsem)*)

[SEM] [intro 7](#) — Postestimation tests and predictions (*Accessing stored results*)

[SEM] [methods and formulas for sem](#) — Methods and formulas for sem

[SEM] [sem postestimation](#) — Postestimation tools for sem