Title

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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*]

options	Description
`standardized`	report standardized results
`compact`	display matrices in compact form
`fitted`	include fitted means, variances, and covariances
`format(%`*fmt*`)`	display format to use

`collect` is allowed; see [U] **11.1.10 Prefix commands**.

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[_#])`	endogenous coefficients, paths between endogenous variables (for group #)
`r(Gamma[_#])`	exogenous coefficients, paths from exogenous variables to endogenous 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. https://doi.org/10.1007/BF02293905.

Also see

[SEM] **sem** — Structural equation model estimation command

[SEM] **sem postestimation** — Postestimation tools for sem

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

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

[SEM] **Example 11** — estat framework

[SEM] **Methods and formulas for sem** — Methods and formulas for sem