

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).

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Syntax

`estat framework [ , options ]`

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<td>include fitted means, variances, and covariances</td>
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<tr>
<td>format(%,fmt)</td>
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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

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


Also see

- `sem` — Structural equation model estimation command
- `sem postestimation` — Postestimation tools for `sem`
- `Intro 7` — Postestimation tests and predictions (*Replaying the model (sem and gsem)*)
- `Intro 7` — Postestimation tests and predictions (*Accessing stored results*)
- `Example 11` — `estat framework`
- `Methods and formulas for sem` — Methods and formulas for `sem`