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]
```

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<th>Description</th>
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<tr>
<td>standardized</td>
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<tr>
<td>compact</td>
<td>display matrices in compact form</td>
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<tr>
<td>fitted</td>
<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] 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