**estat framework** — Display estimation results in modeling framework

### Syntax

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

<table>
<thead>
<tr>
<th>options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>standardized</td>
<td>report standardized results</td>
</tr>
<tr>
<td>compact</td>
<td>display matrices in compact form</td>
</tr>
<tr>
<td>fitted</td>
<td>include fitted means, variances, and covariances</td>
</tr>
<tr>
<td>format(%,fmt)</td>
<td>display format to use</td>
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### Menu

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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).

### 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] 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`