Example 21 — Group-level goodness of fit

Description Remarks and examples Also see

Description

Below we demonstrate the estat ggof command, which may be used after sem with the group() option. estat ggof displays group-by-group goodness-of-fit statistics.

We pick up where [SEM] **Example 20** left off:

- . use https://www.stata-press.com/data/r19/sem_2fmmby

Remarks and examples

. estat ggof

Group-level fit statistics

	N	SRMR	CD
grade 1 2	134 251	0.063 0.047	0.969 0.955

Note: Group-level chi-squared statistics are not reported because of constraints between groups.

Notes:

- Reported are the goodness-of-fit tests that estat gof, stats(residuals) would report. The difference is that they are reported for each group rather than overall.
- 2. If the fit is good, then SRMR (standardized root mean squared residual) will be close to 0 and CD (the coefficient of determination) will be near 1.

It is also appropriate to run estat gof to obtain overall results:

. estat gof, stats(residuals)

Fit statistic	Value	Description
Size of residuals SRMR CD	0.056 0.958	Standardized root mean squared residual Coefficient of determination

Also see

[SEM] Example 20 — Two-factor measurement model by group

[SEM] **Example 4** — Goodness-of-fit statistics

[SEM] **estat ggof** — Group-level goodness-of-fit statistics

[SEM] estat gof — Goodness-of-fit statistics

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