Title

```
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 http://www.stata-press.com/data/r13/sem_2fmmby
```

## **Remarks and examples**

stata.com

```
. estat ggof
Group-level fit statistics
```

	N	SRMR	CD
grade 1 2	134 251	0.088 0.056	0.969 0.955

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

Notes:

- 1. 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	0.074 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