estat lcprob — Latent class marginal probabilities

Description

estat lcprob is for use after gsem but not sem.
estat lcprob reports a table of the marginal predicted latent class probabilities.

Menu

Statistics > LCA (latent class analysis) > Class marginal probabilities

Syntax

estat lcprob [, options ]

options          Description

  classpr          latent class probability; the default
  classposteriorpr posterior latent class probability
  nose            do not estimate SEs
  post            post margins and their VCE as estimation results
  display_options control column formats, row spacing, and line width

Options

classpr, the default, calculates marginal predicted probabilities for each latent class.
classposteriorpr calculates marginal predicted posterior probabilities for each latent class. The
posterior probabilities are a function of the latent class predictors and the fitted outcome densities.
nose suppresses calculation of the VCE and standard errors.
post causes estat lcprob to behave like a Stata estimation (e-class) command. estat lcprob
posts the vector of estimated margins along with the estimated variance–covariance matrix to
e(), so you can treat the estimated margins just as you would results from any other estimation
command.
display_options: vsquish, fvwrap(#), fvwrapon(style), cformat(%,fmt), pformat(%,fmt),
sformat(%,fmt), and nolstretch.
Remarks and examples

See [SEM] Example 50g, [SEM] Example 53g, and [SEM] Example 54g.

Stored results

`estat lcprob` stores the following in `r()`:

Scalars
- `r(N)`: number of observations

Macros
- `r(title)`: title in output
- `r(classposteriorpr)`: classposteriorpr

Matrices
- `r(b)`: estimates
- `r(V)`: variance–covariance matrix of the estimates
- `r(table)`: matrix containing the margins with their standard errors, test statistics, p-values, and confidence intervals

`estat lcprob` with the `post` option also stores the following in `e()`:

Scalars
- `e(N)`: number of observations

Macros
- `e(title)`: title in output
- `e(classposteriorpr)`: classposteriorpr
- `e(properties)`: b V

Matrices
- `e(b)`: estimates
- `e(V)`: variance–covariance matrix of the estimates

Also see

[SEM] `gsem` — Generalized structural equation model estimation command
[SEM] `gsem postestimation` — Postestimation tools for gsem
[SEM] Example 50g — Latent class model
[SEM] Example 53g — Finite mixture Poisson regression
[SEM] Example 54g — Finite mixture Poisson regression, multiple responses