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.
marginsplot can be used after estat lcprob to plot 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

collect is allowed; see [U] 11.1.10 Prefix commands.

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(#), fvwrappon(style), cformat(’f’,fmt), pformat(’f’,fmt),
    sformat(’f’,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