estat lcprob — Latent class marginal probabilities

Description

`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 for estat

Statistics > Postestimation

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(#)`, `fvwrapon(`*style*`)`, `cformat(%`*fmt*`)`, `pformat(%`*fmt*`)`, `sformat(%`*fmt*`)`, and `nolstretch`.

Remarks and examples

`estat lcprob` is illustrated in **[FMM] Example 1a**, **[FMM] Example 2**, and **[FMM] Example 3**.

Stored results

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

Scalars
- `r(N)` number of observations

Macros
- `r(title)` title in output

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` or empty
- `e(properties)` `b V`

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

Also see

[FMM] **fmm** — Finite mixture models using the fmm prefix

[FMM] **fmm intro** — Introduction to finite mixture models

[FMM] **fmm postestimation** — Postestimation tools for fmm