

estat lcprob — Latent class marginal probabilities
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Description

`estat lcp`rob reports a table of the marginal predicted latent class probabilities.

`marginsplot` can be used after `estat lcp`rob to plot the marginal predicted latent class probabilities.

Menu for estat

Statistics > Postestimation

Syntax

```
estat lcp
```

rob [, *options*]

<i>options</i>	Description
<code>classpr</code>	latent class probability; the default
<code>classposteriorpr</code>	posterior latent class probability
<code>nose</code>	do not estimate SEs
<code>post</code>	post margins and their VCE as estimation results
<code>display_options</code>	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 lcp`rob to behave like a Stata estimation (`e-class`) command. `estat lcp`rob 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	
<code>r(N)</code>	number of observations
Macros	
<code>r(title)</code>	title in output
Matrices	
<code>r(b)</code>	estimates
<code>r(V)</code>	variance–covariance matrix of the estimates
<code>r(table)</code>	matrix containing the margins with their standard errors, test statistics, <i>p</i> -values, and confidence intervals

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

Scalars	
<code>e(N)</code>	number of observations
Macros	
<code>e(title)</code>	title in output
<code>e(classposteriorpr)</code>	<code>classposteriorpr</code> or empty
<code>e(properties)</code>	<code>b V</code>
Matrices	
<code>e(b)</code>	estimates
<code>e(V)</code>	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`

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