estat policy — Display policy matrix

Description

estat policy displays the estimated policy matrix of the state-space form of a DSGE model.

Quick start

Display the estimated policy matrix

    estat policy

Same as above, but with 90% confidence intervals

    estat policy, level(90)

Menu for estat

Statistics > Postestimation

Syntax

estat policy [, compact post level(#) *display_options*]

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

Options

compact reports only the coefficient values of the estimated policy matrix and displays these coefficients in matrix form.

post causes estat policy to behave like a Stata estimation (e-class) command. estat policy posts the policy matrix parameters along with the estimated variance–covariance matrix to e(), so you can treat the estimated policy matrix as you would results from any other estimation command.

level(#) specifies the confidence level, as a percentage, for confidence intervals. The default is level(95) or as set by set level; see **[U] 20.8 Specifying the width of confidence intervals**.

display_options: noci, nopvalues, cformat(%*fmt*), pformat(%*fmt*), sformat(%*fmt*), and nolstretch; see **[R] Estimation options**.

Remarks and examples

The policy matrix is part of the state-space form of a DSGE model. It specifies the model's control variables as a function of the model's state variables.

For examples, see [DSGE] **Intro 1**, [DSGE] **Intro 3a**, and [DSGE] **Intro 3c**.

Stored results

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

Matrices

`r(policy)`	estimated policy matrix
`r(b)`	estimates
`r(V)`	variance–covariance matrix of the estimates

If `post` is specified, `estat policy` also stores the following in `e()`:

Macros

`e(properties)`	`b V`

Matrices

`e(policy)`	estimated policy matrix
`e(b)`	estimates
`e(V)`	variance–covariance matrix of the estimates

Methods and formulas

Entries in the policy matrix $\mathbf{G}$ are functions of the structural parameter vector $\boldsymbol{\theta}$. Standard errors for $\widehat{\mathbf{G}}$ are calculated using the delta method.

Also see

[DSGE] **dsge** — Linear dynamic stochastic general equilibrium models

[DSGE] **dsge postestimation** — Postestimation tools for dsge

[DSGE] **dsgenl** — Nonlinear dynamic stochastic general equilibrium models

[DSGE] **dsgenl postestimation** — Postestimation tools for dsgenl

[DSGE] **Intro 1** — Introduction to DSGEs

For suggested citations, see the FAQ on citing Stata documentation.