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Description

bayesirf creates and manipulates Bayesian impulse–response function (IRF) files that contain estimates of the IRFs, dynamic-multiplier functions, and forecast-error variance decompositions (FEVDs) created after estimation by bayes: var; see [BAYES] bayes: var.

bayesirf creates and manipulates Bayesian IRF files that contain estimates of the IRFs created after estimation by bayes: dsge or bayes: dsgenl; see [BAYES] bayes: dsge or [BAYES] bayes: dsgenl.

IRFs and FEVDs are described in [TS] irf.

Quick start

Fit a Bayesian vector autoregression (VAR) model bayes, saving(bvarmcmc): var y1 y2 y3

Create IRF myirf and IRF file bayesirfs.irf bayesirf create myirf, set(bayesirfs)

Graph orthogonalized IRF for dependent variables y1 and y2 given a shock to y1 bayesirf graph oirf, impulse(y1) response(y1 y2)

Same as above, but present results in a table
bayesirf table oirf, impulse(y1) response(y1 y2)

See other bayesirf subcommands for additional Quick starts.

Syntax

bayesirf subcommand ... [, ...]

subcommand	Description
create	create IRF file containing IRFs, dynamic-multiplier functions, and FEVDs; [BAYES] bayesirf create
set	set the active IRF file; [TS] irf set
graph	graph results from active file; [BAYES] bayesirf graph
cgraph	combine graphs of IRFs, dynamic-multiplier functions, and FEVDs; [BAYES] bayesirf cgraph
ograph	graph overlaid IRFs, dynamic-multiplier functions, and FEVDs; [BAYES] bayesirf ograph
table	create tables of IRFs, dynamic-multiplier functions, and FEVDs from active file; [BAYES] bayesirf table
ctable	combine tables of IRFs, dynamic-multiplier functions, and FEVDs; [BAYES] bayesirf ctable
describe	describe contents of active file; [TS] irf describe
add	add results from an IRF file to the active IRF file; [TS] irf add
drop	drop IRF results from active file; [TS] irf drop
rename	rename IRF results within a file; [TS] irf rename

bayesirf can be used after bayes: var, bayes: dsge or bayes: dsgenl; see [BAYES] bayes: var, [BAYES] bayes: dsge, or [BAYES] bayes: dsgenl.

bayesirf set, describe, add, drop, and rename have the same syntax as their respective irf commands.

Remarks and examples

For examples and details about IRFs and other functions, see *Remarks and examples* in [BAYES] **bayesirf create**. Also see example 8 in [BAYES] **bayes: var**.

Also see

- [TS] irf Create and analyze IRFs, dynamic-multiplier functions, and FEVDs
- [BAYES] bayes: dsge Bayesian linear dynamic stochastic general equilibrium models
- [BAYES] bayes: dsgenl Bayesian nonlinear dynamic stochastic general equilibrium models
- [BAYES] **bayes: var** Bayesian vector autoregressive models

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