

irf describe — Describe an IRF file[Syntax](#)
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Syntax

```
irf describe [irf_resultslist] [, options]
```

<i>options</i>	Description
<code>set(<i>filename</i>)</code>	make <i>filename</i> active
<code>using(<i>irf_filename</i>)</code>	describe <i>irf_filename</i> without making active
<code>detail</code>	show additional details of IRF results
<code>variables</code>	show underlying structure of the IRF dataset

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Description

`irf describe` describes the IRF results saved in an IRF file.

If `set()` or `using()` is not specified, the IRF results of the active IRF file are described.

Options

`set(filename)` specifies the IRF file to be described and set; see [TS] `irf set`. If *filename* is specified without an extension, `.irf` is assumed.

`using(irf_filename)` specifies the IRF file to be described. The active IRF file, if any, remains unchanged. If *irf_filename* is specified without an extension, `.irf` is assumed.

`detail` specifies that `irf describe` display detailed information about each set of IRF results. `detail` is implied when `irf_resultslist` is specified.

`variables` is a programmer's option; additionally displays the output produced by the `describe` command.

Remarks and examples

If you have not read [TS] `irf`, please do so.

▷ Example 1

```
. use http://www.stata-press.com/data/r13/lutkepohl2
(Quarterly SA West German macro data, Bil DM, from Lutkepohl 1993 Table E.1)
. var dln_inv dln_inc dln_consump if qtr<=tq(1978q4), lags(1/2) dfk
(output omitted)
```

We create three sets of IRF results:

```
. irf create order1, set(myirfs, replace)
(file myirfs.irf created)
(file myirfs.irf now active)
(file myirfs.irf updated)

. irf create order2, order(dln_inc dln_inv dln_consump)
(file myirfs.irf updated)

. irf create order3, order(dln_inc dln_consump dln_inv)
(file myirfs.irf updated)

. irf describe
```

Contains irf results from myirfs.irf (dated 4 Apr 2013 12:36)

irfname	model	endogenous variables and order (*)
order1	var	dln_inv dln_inc dln_consump
order2	var	dln_inc dln_inv dln_consump
order3	var	dln_inc dln_consump dln_inv

(*) order is relevant only when model is var

The output reveals the order in which we specified the variables.

```
. irf describe order1
irf results for order1

Estimation specification
    model: var
    endog: dln_inv dln_inc dln_consump
    sample: quarterly data from 1960q4 to 1978q4
        lags: 1 2
    constant: constant
    exog: none
    exogvars: none
    exlags: none
    varcns: unconstrained

IRF specification
    step: 8
    order: dln_inv dln_inc dln_consump
    std error: asymptotic
    reps: none
```

Here we see a summary of the model we fit as well as the specification of the IRFs.



Stored results

`irf describe` stores the following in `r()`:

Scalars

<code>r(N)</code>	number of observations in the IRF file
<code>r(k)</code>	number of variables in the IRF file
<code>r(width)</code>	width of dataset in the IRF file
<code>r(N_max)</code>	maximum number of observations
<code>r(k_max)</code>	maximum number of variables
<code>r(widthmax)</code>	maximum width of the dataset
<code>r(changed)</code>	flag indicating that data have changed since last saved

Macros

<code>r(_version)</code>	version of IRF results file
<code>r(irfnames)</code>	names of IRF results in the IRF file
<code>r(irfname_model)</code>	var, sr var, lr var, or vec
<code>r(irfname_order)</code>	Cholesky order assumed in IRF estimates
<code>r(irfname_exog)</code>	exogenous variables, and their lags, in VAR or underlying VAR
<code>r(irfname_exogvar)</code>	exogenous variables in VAR or underlying VAR
<code>r(irfname_constant)</code>	constant or noconstant
<code>r(irfname_lags)</code>	lags in model
<code>r(irfname_exlags)</code>	lags of exogenous variables in model
<code>r(irfname_tmin)</code>	minimum value of timevar in the estimation sample
<code>r(irfname_tmax)</code>	maximum value of timevar in the estimation sample
<code>r(irfname_timevar)</code>	name of tsset timevar
<code>r(irfname_tsfmt)</code>	format of timevar in the estimation sample
<code>r(irfname_varcns)</code>	unconstrained or colon-separated list of constraints placed on VAR coefficients
<code>r(irfname_svarcns)</code>	"." or colon-separated list of constraints placed on SVAR coefficients
<code>r(irfname_step)</code>	maximum step in IRF estimates
<code>r(irfname_stderror)</code>	asymptotic, bs, bsp, or none, depending on type of standard errors specified to <code>irf create</code>
<code>r(irfname_reps)</code>	"." or number of bootstrap replications performed
<code>r(irfname_version)</code>	version of IRF file that originally held <code>irfname</code> IRF results
<code>r(irfname_rank)</code>	"." or number of cointegrating equations
<code>r(irfname_trend)</code>	"." or <code>trend()</code> specified in <code>vec</code>
<code>r(irfname_veccns)</code>	"." or constraints placed on VECM parameters
<code>r(irfname_sind)</code>	"." or normalized seasonal indicators included in <code>vec</code>

Also see

[TS] [irf](#) — Create and analyze IRFs, dynamic-multiplier functions, and FEVDs

[TS] [var intro](#) — Introduction to vector autoregressive models

[TS] [vec intro](#) — Introduction to vector error-correction models