

**Title**

dsimih table — Create tables of dynamic simulation results after **svarih**

Syntax

dsimih table [*stat*] [*using filename*] [, *options*]

<i>stat</i>	Description
sirf	structural impulse-response function
sfevd	structural forecast-error variance decomposition

You may specify only one *stat*.

<i>options</i>	Description
Table Data	
regimes (<i>rgmlist</i>)	create tables for results of regimes <i>rgmlist</i> ; default: all regimes available in the dsimih results
impulse (<i>impvars</i>)	use shock(s) of equation(s) <i>impvars</i> as impulse variables
response (<i>respvars</i>)	use <i>respvars</i> as response variable(s)
noci	suppress confidence intervals
se	display standard errors
setypes (<i>selist</i>)	display standard errors and confidence intervals based on standard errors of type(s) <i>selist</i> ; default: asymptotic
level (#)	set confidence level
step (<i>steplist</i>)	keep results for forecast horizons in <i>steplist</i>
Table Format	
byorder (<i>irorder</i>)	display results by <i>irorder</i>
format (% <i>fmt</i>)	display results in numeric format % <i>fmt</i> ; see format
list options	all options allowed by list
Data Set	
number (#)	access results number # ; only allowed if the using modifier refers to a .ster file
keep	keep the Stata data set underlying the results table in memory
clear	specifies that it is okay to replace the data in memory, even though the current data have not been saved to disk

Description

dsimih table creates tables dynamic simulation results created by **dsimih create**. Options **keep** and **clear** allow you to keep the results in Stata data set memory. If you omit these options, results are only displayed in the results window.

Abbreviations, definitions, notation, syntax elements

This help entry uses terminology defined in **svarih** and **dsimih**.

Options

Table Data

regimes(*rgmlist*) is a numlist and specifies the volatility regimes for which results are displayed. By default, results of all regimes that are present in the **dsimih** results are displayed. *rgmlist* must be a subset of the regimes that occur in the estimation sample.

impulse(*impvars*) specifies the impulse variables for which the statistics are to be reported. If **impulse**() is not specified, each model variable, in turn, is used. *impvars* may be specified in any way allowed by a standard Stata varlist. *varlist* here does not refer to the variables in memory but to the variables recorded in *e(depvar)*.

response(*respvars*) specifies the response variables for which the statistics are to be reported. If **response**() is not specified, each endogenous variable, in turn, is used. *respvars* may be specified in any way allowed by a standard Stata varlist. *varlist* here does not refer to the variables in memory but to the variables recorded in *e(depvar)*.

noci suppresses reporting of the confidence intervals for *stat*.

se specifies that standard errors for each statistic also be included in the table. They are omitted by default.

setypes(*selist*) specifies the standard error types based on which standard error numbers and/or confidence band numbers are included in the table. *selist* may contain individual tokens **asymptotic**, **bs** and **bsp**. They stand for asymptotic standard errors, standard errors from a residual bootstrap, and standard errors from a parametric bootstrap based on draws from the normal distribution, respectively. Specifying multiple standard error types as in **setypes(asymp bsp)** is allowed. The default are asymptotic standard errors.

level(#) specifies the confidence level, as a percentage, for confidence intervals, when they are reported. The default is **level(95)** or as set by **set level**.

step(*steplist*) forecast horizons to be displayed. *steplist* is a Stata numlist and hence does not have to specify sequential numbers. For example, you can specify **steplist(1/3 12 24)**. If **step**() is not specified, each table is constructed using all steps available, up to the maximum step available for the *stats* for *rgmlist*.

Table Format

byorder(*irorder*) specifies whether to break down the output table display by combinations of *impvar* and *respvar*. By default, the names of impulse and response variables are included in the output table as string variables. If option **byorder**() is used, the impulse and/or response variables are removed from the table and the table is split in several tables, by *irorder*. **byorder**() may contain tokens **impulse** and/or **response**. Combinations allowed are **byorder(i)**, **byorder(r)**, **byorder(i r)**, and **byorder(r i)**.

format(%*fmt*) displays the numbers in the output table according to %*fmt*, where format is any numeric format allowed by format. You can only set one %*fmt* for all *stats*-related numbers displayed. If you use option **keep**, all results variables remain formatted.

list_options: all options allowed by list. These options let you format the output table in many ways. **dsimih table**, by default, uses certain *list_options*. Once you use *list_options*, the default *list_options* are no longer applied. Default *list_options* depend on option **byorder**(). They are as follows:

byorder not used	noobs sepby(impulse response)
byorder(impulse)	noobs sepby(response)
byorder(response)	noobs sepby(impulse)
byorder(impulse response)	noobs separator(0)
byorder(response impulse)	noobs separator(0)

Data Set

keep keeps the data set underlying the table display in memory and does not restore the memory state that was in place before **dsimih table** was invoked. **dsimih table** uses dsimih use to load a data set with dynamic simulation results into memory and then displays it using **list**. The data set that option **keep** keeps in memory corresponds exactly to the output table displayed by **dsimih table**.

This option is useful if you want to format the table in a way that **dsimih table** does not support. Option **keep** gives you the data set underlying the table output of **dsimih table**. You can then apply your own tabulation commands to the data.

clear specifies that it is okay to replace the data in memory even though the current data have not been saved to disk. This option is for usage in conjunction with option **keep**.

Remarks

dsimih table by default accesses DS results in **e()** but is also capable of accessing DS results stored in files using its **using** modifier. For details on how the **using** modifier works in all **dsimih** subcommands, see dsimih etodta.

Examples

Executing the following statements will change current **e()**-results.

Bootstrap replication numbers are set to values that are inappropriate for analysis but appropriate for quick execution of example statements.

Generate example estimates (see svarih examples):

```
. webuse lutkepohl2
. svarih examples bfa unconstr , ereplace
. dsimih describe , modelstats cmdline

. dsimih create , step(12)
. version 11.2: set seed 123456
. dsimih create , step(12) bs fromb reps(10)
. dsimih describe , bootstrap
```

A quick table:

```
. dsimih table sfevd , level(90)
```

A more refined table, using options from list:

```
. dsimih tab sf , lev(90) sety(bs) imp(*inc) byorder(r) format(%5.3f)
step(0/4 8 12) abb(12) sep(0) noobs
```

If you need to get your hands on the table data, use option **keep**. You can use the prefix **quietly** if you do not need the data to be displayed.

```
. quietly dsimih table sfevd , level(90) setype(bs) impulse(*inc) byorder(r)
step(0/4 8 12) keep clear
. describe
```

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Acknowledgements

dsimih table was inspired in many ways by official Stata's irf table.

Also see

Help: [TS] irf, dsimih, dsimih create, dsimih graph, dsimih describe, dsimih use, dsimih drop, dsimih etodta