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## Combined subject table of contents

This is the complete contents for all manuals. Every estimation command has a postestimation entry; however, not all postestimation entries are listed here.

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- Creating and dropping variables
- Functions and expressions
- Strings
- Dates and times
- Loading, saving, importing, and exporting data
- Combining data
- Certifying data

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- Error messages
- Stored results

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- Distributional graphs
- Item response theory graphs
- Lasso graphs
- Meta-analysis graphs
- Multivariate graphs
- Quality control
- Regression diagnostic plots
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- Bayesian analysis
- Binary outcomes
- Categorical outcomes
- Censored and truncated regression models
- Choice models
- Cluster analysis
- Correspondence analysis
- Count outcomes
- Discriminant analysis
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- Do-it-yourself maximum likelihood estimation
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- Reshaping datasets
- Labeling, display formats, and notes
- Changing and renaming variables
- Examining data
- File manipulation
- Miscellaneous data commands
- Multiple datasets in memory
- Multiple imputation

- Internet
- Data types and memory
- Advanced utilities

- Smoothing and densities
- Survival-analysis graphs
- Time-series graphs
- More statistical graphs
- Editing
- Graph utilities
- Graph schemes
- Graph concepts

- Longitudinal data/panel data
- Meta-analysis
- Mixed models
- Multidimensional scaling and biplots
- Multilevel mixed-effects models
- Multiple imputation
- Multivariate analysis of variance and related techniques
- Nonlinear regression
- Nonparametric statistics
- Ordinal outcomes
- Other statistics
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- Power, precision, and sample size
- Quality control
- ROC analysis
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Combined subject table of contents

- Extended regression models
- Factor analysis and principal components
- Finite mixture models
- Fractional outcomes
- Generalized linear models
- Indicator and categorical variables
- Item response theory
- Lasso
- Latent class models
- Linear regression and related
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Matrix commands
- Basics
- Programming
- Projects

Programming
- Basics
- Program control
- Parsing and program arguments
- Console output
- Commonly used programming commands
- Debugging

Other
- Mata

Customizable tables and collections

Automated document and report creation

Data manipulation and management

Basic data commands
- Intro
- Data management
- codebook
- Data types
- Datetime
- Datetime durations
- Datetime relative dates
- Datetime values from other software
- describe
- edit

Simulation/resampling
- Spatial autoregressive models
- Standard postestimation tests, tables, and other analyses
- Structural equation modeling
- Survey data
- Survival analysis
- Time series, multivariate
- Time series, univariate
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- Treatment effects

Getting started

[GSM]  Getting Started with Stata for Mac
[GSU]  Getting Started with Stata for Unix
[GSW]  Getting Started with Stata for Windows
[U]  Chapter 3
[U]  Chapter 4
[R]  help
[R]  search

Resources for learning and using Stata
Stata’s help and search facilities
Display help in Stata
Search Stata documentation and other resources

Data manipulation and management

Basic data commands
- Intro
- Data management
- codebook
- Data types
- Datetime
- Datetime durations
- Datetime relative dates
- Datetime values from other software
- describe
- edit

Introduction to data management reference manual
Introduction to data management commands
Describe data contents
Quick reference for data types
Date and time values and variables
Obtaining and working with durations
Obtaining dates and date information from other dates
Date and time conversion from other software
Describe data in memory or in file
Browse or edit data with Data Editor
Creating and dropping variables

[D] clear ......................................................... Clear memory
[D] compress ................................................. Compress data in memory
[D] drop ........................................................ Drop variables or observations
[D] dyngen ...................................................... Dynamically generate new values of variables
[D] egen ......................................................... Extensions to generate
[D] frame copy ............................................... Make a copy of a frame
[D] frame drop ............................................... Drop frame from memory
[D] frame put ............................................... Copy selected variables or observations to a new frame
[D] frames reset .............................................. Drop all frames from memory
[D] generate .................................................... Create or change contents of variable
[FN] Mathematical functions
[FN] Matrix functions
[R] orthog ........................................... Orthogonalize variables and compute orthogonal polynomials
[FN] Programming functions
[FN] Random-number functions
[FN] Selecting time-span functions
[FN] Statistical functions
[FN] String functions
[FN] Trigonometric functions

Functions and expressions

[U] Section 12.4.2.1 ................................. Unicode string functions
[U] Chapter 13 ............................................. Functions and expressions
[FN] Date and time functions
[D] egen ................................................... Extensions to generate
[FN] Mathematical functions
[FN] Matrix functions
[FN] Programming functions
[FN] Random-number functions
[FN] Selecting time-span functions
[FN] Statistical functions
[FN] String functions
[FN] Trigonometric functions
Strings

[U] Section 12.4 ................................................................. Strings
[U] Section 12.4.2 ......................................................... Handling Unicode strings
[U] Chapter 24 .............................................................. Working with strings
[D] Data types ............................................................... Quick reference for data types
[FN] String functions ....................................................... Unicode utilities

Dates and times

[U] Section 12.5.3 ............................................................ Date and time formats
[U] Chapter 25 ............................................................... Working with dates and times
[D] bcal ................................................................. Business calendar file manipulation
[D] Datetime .......................................................... Date and time values and variables
[D] Datetime business calendars ................................................ Business calendars
[D] Datetime business calendars creation .................................. Business calendars creation
[D] Datetime conversion .................................................. Converting strings to Stata dates
[D] Datetime display formats ................................................ Display formats for dates and times
[D] Datetime durations .................................................... Obtaining and working with durations
[D] Datetime relative dates ................................................ Obtaining dates and date information from other dates
[D] Datetime values from other software Date and time conversion from other software

Loading, saving, importing, and exporting data

[GS] Chapter 6 (GSM, GSU, GSW) .................................. Using the Data Editor
[U] Chapter 22 ............................................................... Entering and importing data
[D] edit ................................................................. Browse or edit data with Data Editor
[D] export .............................................................. Overview of exporting data from Stata
[D] import .............................................................. Overview of importing data into Stata
[D] import dbase ....................................................... Import and export dBase files
[D] import delimited ................................................... Import and export delimited text data
[D] import excel ......................................................... Import and export Excel files
[D] import fred ......................................................... Import data from Federal Reserve Economic Data
[D] import haver ....................................................... Import data from Haver Analytics databases
[D] import sas ........................................................ Import SAS files
[D] import sasxport5 ................................................ Import and export data in SAS XPORT Version 5 format
[D] import sasxport8 ................................................ Import and export data in SAS XPORT Version 8 format
[D] import spss ......................................................... Import SPSS files
[D] infile (fixed format) ................................................. Import text data in fixed format with a dictionary
[D] infile (free format) ................................................ Import unformatted text data
[D] infix (fixed format) ................................................ Import text data in fixed format
[D] input ............................................................... Enter data from keyboard
[D] jdbc ............................................................... Load, write, or view data from a database with a Java API
[D] odbc ............................................................... Load, write, or view data from ODBC sources
[D] outfile ............................................................. Export dataset in text format
[D] save ............................................................... Save Stata dataset
[D] sysuse ............................................................. Use shipped dataset
[D] use ............................................................... Load Stata dataset
[D] webuse ............................................................. Use dataset from Stata website
## Combining data

**[U]** Chapter 23 .................................................. Combining datasets  
**[D]** append ..................................................... Append datasets  
**[MI]** mi append .................................................. Append mi data  
**[D]** cross ....................................................... Form every pairwise combination of two datasets  
**[D]** frget ......................................................... Copy variables from linked frame  
**[D]** frlink ......................................................... Link frames  
**[D]** joinby ....................................................... Form all pairwise combinations within groups  
**[D]** merge ......................................................... Merge datasets  
**[MI]** mi merge .................................................. Merge mi data  

## Certifying data

**[D]** assert ....................................................... Verify truth of claim  
**[D]** assertnested ............................................. Verify variables nested  
**[D]** checksum .................................................. Calculate checksum of file  
**[P]** _datasasignature ......................................... Determine whether data have changed  
**[D]** datasasignature ......................................... Determine whether data have changed  
**[D]** notes ......................................................... Place notes in data  
**[P]** signestimationsample ................................. Determine whether the estimation sample has changed  

## Reshaping datasets

**[D]** collapse ................................................ Make dataset of summary statistics  
**[D]** contract ................................................ Make dataset of frequencies and percentages  
**[D]** expand ..................................................... Duplicate observations  
**[D]** expandcl ................................................ Duplicate clustered observations  
**[D]** fillin ....................................................... Rectangularize dataset  
**[D]** obs ........................................................ Increase the number of observations in a dataset  
**[D]** reshape ................................................ Convert data from wide to long form and vice versa  
**[MI]** mi reshape .............................................. Reshape mi data  
**[TS]** rolling ..................................................... Rolling-window and recursive estimation  
**[D]** separate ................................................ Create separate variables  
**[SEM]** ssd ....................................................... Making summary statistics data (sem only)  
**[D]** stack ....................................................... Stack data  
**[D]** statsby .................................................... Collect statistics for a command across a by list  
**[D]** xpose ...................................................... Interchange observations and variables  

## Labeling, display formats, and notes

**[GS]** Chapter 7 (GSM, GSU, GSW) ............................... Using the Variables Manager  
**[U]** Section 12.5 .............................................. Formats: Controlling how data are displayed  
**[U]** Section 12.6 .............................................. Dataset, variable, and value labels  
**[D]** format ..................................................... Set variables’ output format  
**[D]** label ........................................................ Manipulate labels  
**[D]** label language ........................................... Labels for variables and values in multiple languages  
**[D]** labelbook .................................................. Label utilities  
**[D]** notes ........................................................ Place notes in data  
**[D]** varmanage ................................................ Manage variable labels, formats, and other properties
Changing and renaming variables

[GS] Chapter 7 (GSM, GSU, GSW) ................. Using the Variables Manager
[U] Chapter 26 ................... Working with categorical data and factor variables
[D] clonevar .........................................Clone existing variable
[D] destring ................. Convert string variables to numeric variables and vice versa
[D] dyngen .................. Dynamically generate new values of variables
[D] encode .................. Encode string into numeric and vice versa
[D] generate .................. Create or change contents of variable
[D] mvencode ............. Change missing values to numeric values and vice versa
[D] order .................. Reorder variables in dataset
[D] recode .................................. Recode categorical variables
[D] rename .................................. Rename variable
[D] rename group .................. Rename groups of variables
[D] split .................................. Split string variables into parts
[D] varmanage ................ Manage variable labels, formats, and other properties

Examining data

[GS] Chapter 6 (GSM, GSU, GSW) .................. Using the Data Editor
[D] cf .................................................Compare two datasets
[CM] cmsummarize ..................................Summarize variables by chosen alternatives
[D] codebook ..................................Describe data contents
[D] compare ..................................Compare two variables
[D] count ................................. Count observations satisfying specified conditions
[D] describe ..................................Describe data in memory or in file
[D] ds ........................................ Compactly list variables with specified properties
[D] duplicates .................. Report, tag, or drop duplicate observations
[D] edit .................................. Browse or edit data with Data Editor
[D] gsort .................................. Ascending and descending sort
[D] inspect .................................. Display simple summary of data’s attributes
[D] isid .................................. Check for unique identifiers
[D] lookfor .................................. Search for string in variable names and labels
[R] lv .................................. Letter-value displays
[R] misstable .................................. Tabulate missing values
[MI] mi describe ..................................Describe mi data
[MI] mi misstable .................. Tabulate pattern of missing values
[D] ptile .................................. Create variable containing percentiles
[ST] stdescribe ..................................Describe survival-time data
[R] summarize ..................................Summary statistics
[SVY] svy: tabulate oneway .................. One-way tables for survey data
[SVY] svy: tabulate twoway .................. Two-way tables for survey data
[P] tabdisp .................................. Display tables
[R] table intro . Introduction to tables of frequencies, summaries, and command results
[R] table .................................. Table of frequencies, summaries, and command results
[R] table multiway ..................................Multiway tables
[R] table oneway ..................................One-way tabulation
[R] table regression ..................................Table of regression results
[R] table summary ..................................Table of summary statistics
[R] table twoway ..................................Two-way tabulation
[R] tabstat ..................................Compact table of summary statistics
[R] tabulate oneway ..................................One-way table of frequencies
[R] tabulate twoway ..................................Two-way table of frequencies
Multiple datasets in memory

File manipulation

- cd: Change directory
- cf: Compare two datasets
- changeeol: Convert end-of-line characters of text file
- checksum: Calculate checksum of file
- copy: Copy file from disk or URL
- dir: Display filenames
- erase: Erase a disk file
- filefilter: Convert ASCII or binary patterns in a file
- mkdir: Create directory
- rmmdir: Remove directory
- type: Display contents of a file
- unicode convetfile: Low-level file conversion between encodings
- unicode translate: Translate files to Unicode
- zipfile: Compress and uncompress files and directories in zip archive format

Miscellaneous data commands

- corr2data: Create dataset with specified correlation structure
- drawnorm: Draw sample from multivariate normal distribution
- dydx: Calculate numeric derivatives and integrals
- frame change: Change identity of current (working) frame
- frame create: Create a new frame
- frame prefix: The frame prefix command
- frame pwf: Display name of current (working) frame
- frame rename: Rename existing frame
- frames dir: Display names of all frames in memory
- icd: Introduction to ICD commands
- icd10: ICD-10 diagnosis codes
- icd10cm: ICD-10-CM diagnosis codes
- icd10pcs: ICD-10-PCS procedure codes
- icd9: ICD-9-CM diagnosis codes
- icd9p: ICD-9-CM procedure codes
- ipolate: Linearly interpolate (extrapolate) values
- range: Generate numerical range
- sample: Draw random sample
- splitsample: Split data into random samples

Multiple datasets in memory

- frame change: Change identity of current (working) frame
- frame copy: Make a copy of a frame
- frame create: Create a new frame
- frame drop: Drop frame from memory
- frame prefix: The frame prefix command
- frame put: Copy selected variables or observations to a new frame
- frame pwf: Display name of current (working) frame
- frame rename: Rename existing frame
- frames: Data frames
Multiple imputation

[MI] mi add ........................................ Add imputations from another mi dataset
[MI] mi append ...................................... Append mi data
[MI] mi convert .................................... Change style of mi data
[MI] mi copy ........................................ Copy mi flongsep data
[MI] mi describe ................................... Describe mi data
[MI] mi erase ....................................... Erase mi datasets
[MI] mi expand .................................... Expand mi data
[MI] mi export ..................................... Export mi data
[MI] mi export ice .................................. Export mi data to ice format
[MI] mi export nhanes1 ......................... Export mi data to NHANES format
[MI] mi extract ................................... Extract original or imputed data from mi data
[MI] mi import ..................................... Import data into mi
[MI] mi import flong ......................... Import flong-like data into mi
[MI] mi import flongsep ..................... Import flongsep-like data into mi
[MI] mi import ice ................................ Import ice-format data into mi
[MI] mi import nhanes1 ................ Import NHANES-format data into mi
[MI] mi import wide ......................... Import wide-like data into mi
[MI] mi merge .................................... Merge mi data
[MI] mi misstable ................................. Tabulate pattern of missing values
[MI] mi passive ................................... Generate/replace and register passive variables
[MI] mi ptrace .................................... Load parameter-trace file into Stata
[MI] mi rename .................................... Rename variable
[MI] mi replace0 .................................. Replace original data
[MI] mi reset ...................................... Reset imputed or passive variables
[MI] mi reshape .................................. Reshape mi data
[MI] mi set ......................................... Declare multiple-imputation data
[MI] mi stsplit ................................. Split and join time-span records for mi data
[MI] mi update ................................... Ensure that mi data are consistent
[MI] mi varying ................................. Identify variables that vary across imputations
[MI] mi xeq ....................................... Execute command(s) on individual imputations
[MI] mi XXXset .................................. Declare mi data to be svy, st, ts, xt, etc.
[MI] noupdate option .......................... The noupdate option
[MI] Styles ........................................... Dataset styles
[MI] Workflow ..................................... Suggested workflow

Utilities

Basic utilities

[GS] Chapter 13 (GSM, GSU, GSW) .................. Using the Do-file Editor—automating Stata
[U] Chapter 4 ..................................... Stata’s help and search facilities
[U] Chapter 15 ..................................... Saving and printing output—log files
[U] Chapter 16 ..................................... Do-files
[R] about ........................................... Display information about your Stata
[D] by ................................................. Repeat Stata command on subsets of the data
Combined subject table of contents

[R] cls .................................................. Clear Results window
[R] copyright ......................................... Display copyright information
[R] do ..................................................... Execute commands from a file
[R] doedit ................................................ Edit do-files and other text files
[R] exit .................................................. Exit Stata
[R] help .................................................. Display help in Stata
[R] level .................................................. Set default confidence level
[R] log ................................................... Echo copy of session to file
[D] obs .................................................. Increase the number of observations in a dataset
[R] postest .............................................. Postestimation Selector
[R] #review ............................................ Review previous commands
[R] search .............................................. Search Stata documentation and other resources
[BAYES] set clevel ...................................... Set default credible level
[R] translate .......................................... Print and translate logs
[D] unicode translate ................................. Translate files to Unicode
[R] view .................................................. View files and logs
[D] zipfile ............................................. Compress and uncompress files and directories in zip archive format

Error messages

[U] Chapter 8 ......................................... Error messages and return codes
[P] error .................................................. Display generic error message and exit
[R] Error messages .................................... Error messages and return codes
[P] rmsg ................................................ Return messages

Stored results

[U] Section 13.5 ....................................... Accessing coefficients and standard errors
[U] Section 18.8 ....................................... Accessing results calculated by other programs
[U] Section 18.9 ....................................... Accessing results calculated by estimation commands
[U] Section 18.10 ..................................... Storing results
[P] creturn .............................................. Return c-class values
[P] ereturn ............................................. Post the estimation results
[R] estimates .......................................... Save and manipulate estimation results
[R] estimates describe ............................... Describe estimation results
[R] estimates for ..................................... Repeat postestimation command across models
[R] estimates notes ................................... Add notes to estimation results
[R] estimates replay .................................. Redisplay estimation results
[R] estimates save .................................. Save and use estimation results
[R] estimates selected ............................... Show selected coefficients
[R] estimates stats .................................. Model-selection statistics
[R] estimates store .................................. Store and restore estimation results
[R] estimates table .................................. Compare estimation results
[R] estimates title .................................. Set title for estimation results
[P] _return ............................................ Preserve stored results
[P] return ............................................. Return stored results
[R] Stored results .................................. Stored results

Internet

[U] Chapter 29 ....................................... Using the Internet to keep up to date
[R] ado update ........................................ Update community-contributed packages
[D] checksum ......................................... Calculate checksum of file
[D] copy .............................................. Copy file from disk or URL
<table>
<thead>
<tr>
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<th>Section/Chapter</th>
<th>Title</th>
<th>Description</th>
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</thead>
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<td>[U]</td>
<td>Chapter 6</td>
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<td>Managing memory</td>
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<td>[U]</td>
<td>Section 12.2.2</td>
<td></td>
<td>Numeric storage types</td>
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<td>[U]</td>
<td>Section 12.4</td>
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<td>Strings</td>
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<td>Precision and problems therein</td>
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<td>Working with strings</td>
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<td>compress</td>
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<td>Data types</td>
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<td>Quick reference for data types</td>
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<td>memory</td>
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<td>Memory management</td>
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<td>Missing values</td>
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<td>Quick reference for missing values</td>
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<td>[D]</td>
<td>recast</td>
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<td>Change storage type of variable</td>
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<td>[R]</td>
<td>assert</td>
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<td>Verify truth of claim</td>
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<td>[D]</td>
<td>assertnested</td>
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<td>Verify variables nested</td>
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<tr>
<td>[D]</td>
<td>cd</td>
<td></td>
<td>Change directory</td>
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<tr>
<td>[D]</td>
<td>changeeol</td>
<td></td>
<td>Convert end-of-line characters of text file</td>
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<tr>
<td>[D]</td>
<td>checksum</td>
<td></td>
<td>Calculate checksum of file</td>
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<tr>
<td>[D]</td>
<td>copy</td>
<td></td>
<td>Copy file from disk or URL</td>
</tr>
<tr>
<td>[P]</td>
<td>_datasignature</td>
<td></td>
<td>Determine whether data have changed</td>
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<td>Determine whether data have changed</td>
</tr>
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<td>[R]</td>
<td>db</td>
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<td>Launch dialog</td>
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<td>[P]</td>
<td>Dialog programming</td>
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<td>Dialog programming</td>
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<td>[D]</td>
<td>dir</td>
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<td>Display filenames</td>
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<td>discard</td>
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<td>Drop automatically loaded programs</td>
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<td>[D]</td>
<td>erase</td>
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<td>Erase a disk file</td>
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<td>[P]</td>
<td>file</td>
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<td>Read and write text and binary files</td>
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<tr>
<td>[D]</td>
<td>filefilter</td>
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<td>Convert ASCII or binary patterns in a file</td>
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<td>[D]</td>
<td>hexdump</td>
<td></td>
<td>Display hexadecimal report on file</td>
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<tr>
<td>[D]</td>
<td>mkdir</td>
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<td>Create directory</td>
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<td>The —more— message</td>
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<td>query</td>
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<td>Display system parameters</td>
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<td>quietly</td>
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<td>Quietly and noisily perform Stata command</td>
</tr>
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<td>[D]</td>
<td>rmdir</td>
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<td>set</td>
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<td>Overview of system parameters</td>
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<td>set cformat</td>
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<td>Format settings for coefficient tables</td>
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<td>set_defaults</td>
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<td>Reset system parameters to original Stata defaults</td>
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<td>[R]</td>
<td>set emptycells</td>
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<td>Set what to do with empty cells in interactions</td>
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<td>set iter</td>
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<td>Control iteration settings</td>
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<td>[P]</td>
<td>set locale_functions</td>
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<td>Specify default locale for functions</td>
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<tr>
<td>[P]</td>
<td>set locale_ui</td>
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<td>Specify a localization package for the user interface</td>
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<tr>
<td>[R]</td>
<td>set rng</td>
<td></td>
<td>Set which random-number generator (RNG) to use</td>
</tr>
</tbody>
</table>
Graphics

Common graphs

[G-1] Graph intro ................................ Introduction to graphics
[G-2] graph ............................................ The graph command
[G-2] graph bar ........................................ Bar charts
[G-2] graph box ........................................ Box plots
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[G-2] graph combine .................................. Combine multiple graphs
[G-2] graph copy ...................................... Copy graph in memory
[G-2] graph describe ................................. Describe contents of graph in memory or on disk
[G-2] graph dir ......................................... List names of graphs in memory and on disk
[G-2] graph display ................................... Display graph stored in memory
[G-2] graph dot ........................................ Dot charts (summary statistics)
[G-2] graph drop ...................................... Drop graphs from memory
[G-2] graph export .................................... Export current graph
[G-2] graph manipulation ............................. Graph manipulation commands
[G-2] graph matrix ..................................... Matrix graphs
[G-2] graph other ...................................... Other graphics commands
[G-2] graph pie ........................................ Pie charts
[G-2] graph play ....................................... Apply edits from a recording on current graph
[G-2] graph print ..................................... Print a graph
[G-2] graph query ..................................... List available schemes and styles
[G-2] graph rename .................................... Rename graph in memory
[G-2] graph replay .................................... Replay multiple graphs
[G-2] graph save ...................................... Save graph to disk
[G-2] graph set ........................................ Set graphics options
[G-2] graph twoway ................................... Twoway graphs
Distributional graphs

[R] cumul .......................................................... Cumulative distribution
[R] Diagnostic plots ................................................ Distributional diagnostic plots
[R] dotplot .......................................................... Comparative distribution dotplots
[R] histogram ......................................................... Histograms for continuous and categorical variables
[R] ladder ........................................................... Ladder of powers
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[R] spikeplot ........................................... Spike plots and rootograms
[R] sunflower ............................................ Density-distribution sunflower plots

Item response theory graphs
[MV] biplot ................................................. Biplots
[IRT] irtgraph icc ..................................... Item characteristic curve plot
[IRT] irtgraph iif .................................... Item information function plot
[IRT] irtgraph tcc .................................... Test characteristic curve plot
[IRT] irtgraph tif .................................... Test information function plot

Lasso graphs
[LASSO] bicplot ................................... Plot Bayesian information criterion function after lasso
[LASSO] coefpath .................................. Plot path of coefficients after lasso
[LASSO] cvplot ....................................... Plot cross-validation function after lasso

Meta-analysis graphs
[META] estat bubbleplot .................................. Bubble plots after meta regress
[META] meta forestplot .................................. Forest plots
[META] meta funnelplot .................................. Funnel plots
[META] meta galbraithplot .................................. Galbraith plots
[META] meta labbeplot .................................. L’Abbé plots

Multivariate graphs
[MV] biplot .................................................. Biplots
[MV] ca postestimation .................................. Postestimation tools for ca and camat
[MV] ca postestimation plots .................................. Postestimation plots for ca and camat
[MV] cluster dendrogram .................................. Dendrograms for hierarchical cluster analysis
[MV] mca postestimation .................................. Postestimation tools for mca
[MV] mca postestimation plots .................................. Postestimation plots for mca
[MV] mds postestimation .................................. Postestimation tools for mds, mdsmat, and mdslong
[MV] mds postestimation plots .................................. Postestimation plots for mds, mdsmat, and mdslong
[MV] procrustes postestimation .................................. Postestimation tools for procrustes
[MV] scoreplot .................................. Score and loading plots
[MV] screeplot .................................. Scree plot of eigenvalues

Quality control
[R] QC ...................................................... Quality control charts
[R] cusum ................................................. Cusum plots and tests for binary variables
[R] serrbar ................................................. Graph standard error bar chart

Regression diagnostic plots
[R] regress postestimation diagnostic plots .................................. Postestimation plots for regress

ROC analysis
[R] estat classification ................................... Classification statistics and table
[R] estat gof ............................................ Pearson or Hosmer–Lemeshow goodness-of-fit test
[R] logistic postestimation .................................. Postestimation tools for logistic
[R] lroc ................................................. Compute area under ROC curve and graph the curve
[R] lsens ................................................. Graph sensitivity and specificity versus probability cutoff
[R] roccomp ............................................. Tests of equality of ROC areas
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#### Smoothing and densities

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<td>[R]</td>
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<td>Kernel-weighted local polynomial smoothing</td>
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#### Survival-analysis graphs

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<td>Confidence intervals for means and percentiles of survival time</td>
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<td>stcox PH-assumption tests</td>
<td>Tests of proportional-hazards assumption after stcox</td>
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<td>strate</td>
<td>Tabulate failure rates and rate ratios</td>
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<tr>
<td>[ST]</td>
<td>sts graph</td>
<td>Graph the survivor or related function</td>
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#### Time-series graphs

| [BAYES] | bayesirf graph | Graphs of Bayesian IRFs, dynamic-multiplier functions, and FEVDs |
| [TS]    | corrgram       | Tabulate and graph autocorrelations |
| [TS]    | cumsimap       | Graph cumulative spectral distribution |
| [TS]    | estat acplot   | Plot parametric autocorrelation and autocovariance functions |
| [TS]    | estat aroots   | Check the stability condition of ARIMA estimates |
| [TS]    | estat sbcusum  | Cumulative sum test for parameter stability |
| [TS]    | fcast graph    | Graph forecasts after fcast compute |
| [TS]    | irf cgraph     | Combined graphs of IRFs, dynamic-multiplier functions, and FEVDs |
| [TS]    | irf graph      | Graphs of IRFs, dynamic-multiplier functions, and FEVDs |
| [TS]    | irf ograph     | Overlaid graphs of IRFs, dynamic-multiplier functions, and FEVDs |
| [TS]    | pergram        | Periodogram after fcast compute |
| [TS]    | tsline         | Time-series line plots |
| [TS]    | varstable      | Check the stability condition of VAR or SVAR estimates |
| [TS]    | vecstable      | Check the stability condition of VECM estimates |
| [TS]    | wntestb        | Bartlett’s periodogram-based test for white noise |
| [TS]    | xcorrg         | Cross-correlogram for bivariate time series |

#### More statistical graphs

| [BAYES] | bayesgraph | Graphical summaries and convergence diagnostics |
| [PSS-3] | ciwidth, graph | Graph results from the ciwidth command |
| [R]     | Epitab     | Tables for epidemiologists |
| [R]     | fp postestimation | Postestimation tools for fp |
| [R]     | grmeanby   | Graph means and medians by categorical variables |
| [R]     | pkevaluate | Calculate pharmacokinetic measures |
| [R]     | pksumm     | Summarize pharmacokinetic data |
| [PSS-2] | power, graph | Graph results from the power command |
| [R]     | stem       | Stem-and-leaf displays |
| [TE]    | tebalance box | Covariate balance box |
| [TE]    | teoverlap  | Overlap plots |
| [XT]    | xtline     | Panel-data line plots |
Editing

[G-1] Graph Editor .................................................. Graph Editor

Graph utilities

[G-2] set graphics ...................................................... Set whether graphs are displayed
[G-2] set printcolor .................................................. Set how colors are treated when graphs are printed
[G-2] set scheme ......................................................... Set default scheme

Graph schemes

[G-4] Schemes intro ...................................................... Introduction to schemes
[G-4] Scheme economist .............................................. Scheme description: economist
[G-4] Scheme s1 ............................................................ Scheme description: s1 family
[G-4] Scheme s2 ............................................................ Scheme description: s2 family
[G-4] Scheme sj ............................................................. Scheme description: sj

Graph concepts

[G-4] Concept: repeated options ................................. Interpretation of repeated options
[G-4] text ................................................................. Text in graphs

Statistics

ANOVA and related

[U] Chapter 27 ......................................................... Overview of Stata estimation commands
[R] anova ................................................................. Analysis of variance and covariance
[R] contrast .............................................................. Contrasts and linear hypothesis tests after estimation
[R] icc .............................................................. Intraclass correlation coefficients
[R] loneway ............................................................. Large one-way ANOVA, random effects, and reliability
[MV] manova ............................................................. Multivariate analysis of variance and covariance
[ME] meglm ............................................................. Multilevel mixed-effects generalized linear model
[ME] mixed .............................................................. Multilevel mixed-effects linear regression
[R] oneway .............................................................. One-way analysis of variance
[R] pkcross .............................................................. Analyze crossover experiments
[R] pkshape .............................................................. Reshape (pharmacokinetic) Latin-square data
[R] pwcompare ........................................................... Pairwise comparisons
[R] regress ............................................................... Linear regression
[XT] xreg ........................................................... Fixed-, between-, and random-effects and population-averaged linear models

Basic statistics

[R] anova ................................................................. Analysis of variance and covariance
[R] bitest ................................................................. Binomial probability test
[R] ci ................................................................. Confidence intervals for means, proportions, and variances
[R] correlate ........................................................... Correlations of variables
[D] egen ................................................................. Extensions to generate
[R] esize ................................................................. Effect size based on mean comparison
[R] icc ................................................................. Intraclass correlation coefficients
[R] mean ................................................................. Estimate means
[R] misstable ............................................................ Tabulate missing values
Bayesian analysis

Bayesian commands ........................................... Introduction to commands for Bayesian analysis
Bayesian estimation .............................................. Bayesian estimation commands
Bayesian postestimation ........................................ Postestimation tools for bayesmh and the bayes prefix
bayes ..................................................... Bayesian regression models using the bayes prefix
bayes: betareg ................................................... Bayesian beta regression
bayes: binreg Bayesian generalized linear models: Extensions to the binomial family
bayes: biprobit .................................................. Bayesian bivariate probit regression
bayes: clogit .................................................... Bayesian conditional logistic regression
bayes: cloglog .................................................... Bayesian complementary log–log regression
bayes: dsge ...................................................... Bayesian linear dynamic stochastic general equilibrium models
bayes: dsge postestimation . Postestimation tools for bayes: dsge and bayes: dsgenl
bayes: dsgenl . Bayesian nonlinear dynamic stochastic general equilibrium models
bayes: fracreg .................................................... Bayesian fractional response regression
bayes: glm ....................................................... Bayesian generalized linear models
bayes: gnbreg .................................................... Bayesian generalized negative binomial regression
bayes: heckman .................................................. Bayesian Heckman selection model
bayes: heckoprobit ............................................. Bayesian ordered probit model with sample selection
bayes: heckprobit . Bayesian probit model with sample selection
bayes: hetoprobit ............................................... Bayesian heteroskedastic ordered probit regression
bayes: hetoprobit ................................................ Bayesian heteroskedastic probit regression
[BAYES] bayes: hetregress ...................... Bayesian heteroskedastic linear regression
[BAYES] bayes: intreg .......................... Bayesian interval regression
[BAYES] bayes: logistic ....................... Bayesian logistic regression, reporting odds ratios
[BAYES] bayes: logit .......................... Bayesian logistic regression, reporting coefficients
[BAYES] bayes: mecloglog ..................... Bayesian multilevel complementary log–log regression
[BAYES] bayes: meglm ........................ Bayesian multilevel generalized linear model
[BAYES] bayes: meintreg ...................... Bayesian multilevel interval regression
[BAYES] bayes: melogit ....................... Bayesian multilevel logistic regression
[BAYES] bayes: menbreg ...................... Bayesian multilevel negative binomial regression
[BAYES] bayes: meologit ..................... Bayesian multilevel ordered logistic regression
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[BAYES] bayes: mepoisson .................... Bayesian multilevel Poisson regression
[BAYES] bayes: meprobit ...................... Bayesian multilevel probit regression
[BAYES] bayes: mestreg ...................... Bayesian multilevel parametric survival models
[BAYES] bayes: metobit ....................... Bayesian multilevel tobit regression
[BAYES] bayes: mixed ........................... Bayesian multilevel linear regression
[BAYES] bayes: mlogit ........................ Bayesian multinomial logistic regression
[BAYES] bayes: mprobit ....................... Bayesian multinomial probit regression
[BAYES] bayes: mvreg ........................ Bayesian multivariate regression
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[BAYES] bayes: poisson ....................... Bayesian Poisson regression
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[BAYES] bayes: streg ........................ Bayesian parametric survival models
[BAYES] bayes: tnbreg ....................... Bayesian truncated negative binomial regression
[BAYES] bayes: tobit ........................ Bayesian tobit regression
[BAYES] bayes: tpoisson ...................... Bayesian truncated Poisson regression
[BAYES] bayes: var ............................ Bayesian vector autoregressive models
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[BAYES] bayes: xtmlogit ..................... Bayesian random-effects multinomial logit model
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[BAYES] bayes: xtlogit ....................... Bayesian random-effects ordered logistic model
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[BAYES] bayes: zip .......................... Bayesian zero-inflated Poisson regression
[BAYES] bayesfcast .......................... Bayesian dynamic forecasts
[BAYES] bayesfcast compute .................. Compute Bayesian dynamic forecasts
[BAYES] bayesfcast graph ..................... Graphs of Bayesian dynamic forecasts
[BAYES] bayesgraph ......................... Graphical summaries and convergence diagnostics
[BAYES] bayesirf ............................. Bayesian IRFs, dynamic-multiplier functions, and FEVDs
[BAYES] bayesirf cgraph ..................... Combined graphs of Bayesian IRF results
[BAYES] bayesirf create .................... Obtain Bayesian IRFs, dynamic-multiplier functions, and FEVDs
## Binary outcomes

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<td>Tables of Bayesian IRFs, dynamic-multiplier functions, and FEVDs</td>
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**Bayesian estimation**

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<td>tfeffects ipwra</td>
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Censored and truncated regression models

| [TE]  | teffects psmatch                      | Propensity-score matching |
| [TE]  | teffects ra                           | Regression adjustment     |
| [TE]  | telasso                               | Treatment-effects estimation using lasso |
| [LASSO] | xpologit                             | Cross-fit partialing-out lasso logistic regression |
| [XT]  | xtreglogit                            | Random-effects and population-averaged cloglog models |
| [XT]  | xtprobit                              | Fixed-effects, random-effects, and population-averaged logit models |
| [XT]  | xtprobit                              | Random-effects and population-averaged probit models |

Categorical outcomes

| [U]  | Chapter 20                            | Estimation and postestimation commands |
| [U]  | Section 27.6                           | Ordinal outcomes                      |
| [U]  | Section 27.7                           | Categorical outcomes                  |
| [BAYES] | Bayesian estimation                   | Bayesian estimation commands          |
| [R]  | clogit                                | Conditional (fixed-effects) logistic regression |
| [CM] | cmclogit                              | Conditional logit (McFadden’s) choice model |
| [CM] | cmmixlogit                            | Mixed logit choice model              |
| [CM] | cmprobil                              | Multinomial probit choice model       |
| [CM] | cmxtmixlogit                          | Panel-data mixed logit choice model   |
| [FMM] | fmm estimation                        | Fitting finite mixture models         |
| [IRT] | irt nrm                               | Nominal response model                |
| [R]  | mlogit                                | Multinomial (polytomous) logistic regression |
| [R]  | mprobit                               | Multinomial probit regression         |
| [CM] | nlogit                                | Nested logit regression               |
| [R]  | slogit                                | Stereotype logistic regression        |
| [XT]  | xtmlogit                              | Fixed-effects and random-effects multinomial logit models |

Censored and truncated regression models

| [R]  | churdle                               | Cragg hurdle regression              |
| [R]  | cpoisson                              | Censored Poisson regression          |
| [ERM] | eintreg                               | Extended interval regression         |
| [R]  | heckman                               | Heckman selection model              |
| [R]  | heckoprobit                           | Ordered probit model with sample selection |
| [R]  | heckprobit                            | Probit model with sample selection   |
| [R]  | intreg                                | Interval regression                  |
| [ME]  | meanintreg                            | Multilevel mixed-effects interval regression |
| [ME]  | mestreg                               | Multilevel mixed-effects parametric survival models |
| [ME]  | metobit                               | Multilevel mixed-effects tobit regression |
| [ST]  | stintcoxd                             | Cox proportional hazards model for interval-censored survival-time data |
| [ST]  | stintreg                              | Parametric models for interval-censored survival-time data |
| [ST]  | streg                                 | Parametric survival models           |
| [TE]  | stteffects                            | Treatment-effects estimation for observational survival-time data |
| [R]  | tnbreg                                | Truncated negative binomial regression |
| [R]  | tobit                                 | Tobit regression                     |
| [R]  | tpoisson                              | Truncated Poisson regression         |
| [R]  | truncreg                              | Truncated regression                 |
| [XT]  | xteintreg                             | Extended random-effects interval regression |
| [XT]  | xtheckman                             | Random-effects regression with sample selection |
| [XT]  | xtinreg                               | Random-effects interval-data regression models |
| [XT]  | xtstreg                               | Random-effects parametric survival models |
| [XT]  | xttobit                               | Random-effects tobit models          |
Choice models

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<td>Models for panel data</td>
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<tr>
<td>cmchoiceset</td>
<td>Tabulate choice sets</td>
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<tr>
<td>cmclogit</td>
<td>Conditional logit (McFadden’s) choice model</td>
</tr>
<tr>
<td>cmmixlogit</td>
<td>Mixed logit choice model</td>
</tr>
<tr>
<td>cmprobit</td>
<td>Multinomial probit choice model</td>
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- **[U]** Chapter 27
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- **[BAYES]** Bayesian estimation
- **[R]** cnsreg
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- **[TE]** didregress
- **[LASSO]** dsrregress
- **[R]** eivreg
- **[ERM]** eregress
- **[TE]** etpoisson
- **[TE]** etregress
- **[FMM]** fmm estimation
- **[R]** fp
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- **[R]** glm
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- **[ME]** meglm
- **[META]** meta mvregress
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- **[R]** mfp
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- **[MV]** mvreg
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| [SEM] | estat lcprob | Latent class marginal probabilities |
| [SEM] | Example 50g | Latent class model |
| [SEM] | Example 52g | Latent profile model |
| [SEM] | Example 53g | Finite mixture Poisson regression |
| [SEM] | Intro 2 | Learning the language: Path diagrams and command language |
| [SEM] | Intro 5 | Tour of models |

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| [U] | Chapter 20 | Estimation and postestimation commands |
| [U] | Chapter 27 | Overview of Stata estimation commands |
| [R] | areg | Linear regression with a large dummy-variable set |
| [BAYES] | Bayesian estimation | Bayesian estimation commands |
| [R] | cnsreg | Constrained linear regression |
| [R] | constraint | Define and list constraints |
| [TE] | didregress | Difference-in-differences estimation |
| [LASSO] | dsrregress | Double-selection lasso linear regression |
| [R] | eivreg | Errors-in-instruments estimation |
| [ERM] | eregress | Extended linear regression |
| [TE] | etpoisson | Poisson regression with endogenous treatment effects |
| [TE] | etregress | Linear regression with endogenous treatment effects |
| [FMM] | fmm estimation | Fitting finite mixture models |
| [R] | fp | Fractional polynomial regression |
| [R] | frontier | Stochastic frontier models |
| [R] | glm | Generalized linear models |
| [R] | heckman | Heckman selection model |
| [R] | hetregress | Heteroskedastic linear regression |
| [R] | ivpoisson | Poisson model with continuous endogenous covariates |
| [R] | ivregress | Single-equation instrumental-variables regression |
| [R] | ivtobit | Tobit model with continuous endogenous covariates |
| [R] | lpoly | Kernel-weighted local polynomial smoothing |
| [ME] | meglm | Multilevel mixed-effects generalized linear model |
| [META] | meta mvregress | Multivariate meta-regression |
| [META] | meta reg | Meta-analysis meta-regression |
| [R] | mfp | Multivariate fractional polynomial models |
| [ME] | mixed | Multilevel mixed-effects linear regression |
| [MV] | mvreg | Multivariate regression |
| [R] | nestreg | Nested model statistics |
| [TS] | newey | Regression with Newey–West standard errors |
| [LASSO] | poivregress | Partialing-out lasso instrumental-variables regression |
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Chapter 27 ......................................... Linear regression

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Conditional (fixed-effects) logistic regression

Complementary log–log regression

Conditional logit (McFadden’s) choice model

Mixed logit choice model

Multinomial probit choice model

Rank-ordered logit choice model

Rank-ordered probit choice model

Panel-data mixed logit choice model

Double-selection lasso logistic regression

Extended ordered probit regression

Extended probit regression

Exact logistic regression

Ordered probit model with sample selection

Probit model with sample selection
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Section 27.18

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Introduction to meta-analysis

Compute multivariate heterogeneity statistics

Display estimated random-effects covariance matrices

Display variance components as standard deviations and correlations

Introduction to meta

Tests for small-study effects in meta-analysis

Declare meta-analysis data
Mixed models

Chapter 20 Estimation and postestimation commands
Section 27.16 Multilevel mixed-effects models

estat df Analysis of variance and covariance
estat group Summarize the composition of the nested groups
estat icc Estimate intraclass correlations
estat recovariance Display estimated random-effects covariance matrices
estat sd Display variance components as standard deviations and correlations
estat wcorrelation Display within-cluster correlations and standard deviations
icc Intraclass correlation coefficients
manova Multivariate analysis of variance and covariance
me Introduction to multilevel mixed-effects models
mecloglog Multilevel mixed-effects complementary log–log regression
meglm Multilevel mixed-effects generalized linear model
meintreg Multilevel mixed-effects interval regression
melogit Multilevel mixed-effects logistic regression
menbreg Multilevel mixed-effects negative binomial regression
menl Nonlinear mixed-effects regression
meologit Multilevel mixed-effects ordered logistic regression
meoprobit Multilevel mixed-effects ordered probit regression
mepoisson Multilevel mixed-effects Poisson regression
meprobite Multilevel mixed-effects probit regression
mestreg Multilevel mixed-effects parametric survival models
mexloglog Random-effects and population-averaged cloglog models
xtcloglog Random-effects interval-data regression models
xtintreg Fixed-effects, random-effects, and population-averaged logit models
xtlogit Random-effects ordered logistic models
xtprobit Random-effects ordered probit regression
xtprobit Random-effects and population-averaged probit models
xtreg Random-coefficients model
xttobit Random-effects tobit models

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mds Multidimensional scaling for two-way data
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[MI] mi impute regress .............................................. Impute using linear regression
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<td>[CM]</td>
<td>cmrologit</td>
<td>Rank-ordered logit choice model</td>
</tr>
<tr>
<td>[CM]</td>
<td>cmroprobit</td>
<td>Rank-ordered probit choice model</td>
</tr>
<tr>
<td>[ERM]</td>
<td>eoprobit</td>
<td>Extended ordered probit regression</td>
</tr>
<tr>
<td>[FMM]</td>
<td>fmm estimation</td>
<td>Fitting finite mixture models</td>
</tr>
<tr>
<td>[R]</td>
<td>heckoprobit</td>
<td>Ordered probit model with sample selection</td>
</tr>
</tbody>
</table>
hetoprobit ........................................... Heteroskedastic ordered probit regression
irt grm ............................................... Graded response model
irt pcm ............................................... Partial credit model
irt rsm ............................................... Rating scale model
meologit ............................................. Multilevel mixed-effects ordered logistic regression
meoprobit ............................................ Multilevel mixed-effects ordered probit regression
ologit ................................................ Ordered logistic regression
oprobit ............................................... Ordered probit regression
xteoprobit .......................................... Extended random-effects ordered probit regression
xtologit ............................................. Random-effects ordered logistic models
xtoprobit ............................................ Random-effects ordered probit models
ziologit ............................................... Zero-inflated ordered logit regression
zioprobit ............................................ Zero-inflated ordered probit regression

Other statistics

alpha .............................................. Compute interitem correlations (covariances) and Cronbach’s alpha
ameans ............................................. Arithmetic, geometric, and harmonic means
brier ............................................... Brier score decomposition
centile ............................................ Report centile and confidence interval
kappa ............................................... Interrater agreement
mvtest correlations ............................... Multivariate tests of correlations
pcorr ............................................... Partial and semipartial correlation coefficients
ptile ............................................... Create variable containing percentiles
range ............................................... Generate numerical range

Pharmacokinetic statistics

Section 27.21 ....................................... Pharmacokinetic data
pk .................................................. Pharmacokinetic (biopharmaceutical) data
pkcollapse ......................................... Generate pharmacokinetic measurement dataset
pkcross ............................................ Analyze crossover experiments
pkequiv .............................................. Perform bioequivalence tests
pkexamine .......................................... Calculate pharmacokinetic measures
pkshape ........................................... Reshape (pharmacokinetic) Latin-square data
pksumm ............................................ Summarize pharmacokinetic data

Power, precision, and sample size

Section 27.32 ....................................... Power, precision, and sample-size analysis
Intro ............................................... Introduction to power, precision, and sample-size analysis
Intro (ciwidth) ................................. Introduction to precision and sample-size analysis for confidence intervals
Intro (power) .................................... Introduction to power and sample-size analysis for hypothesis tests
ciwidth ............................................ Precision and sample-size analysis for CIs
ciwidth onemean .................................. Precision analysis for a one-mean CI
ciwidth onevariance ............................. Precision analysis for a one-variance CI
ciwidth pairedmeans ......................... Precision analysis for a paired-means-difference CI
ciwidth twomeans ............................... Precision analysis for a two-means-difference CI
ciwidth usermethod ............................. Add your own methods to the ciwidth command

ciwidth, graph .................................... Graph results from the ciwidth command
ciwidth, table ................................... Produce table of results from the ciwidth command
GUI (ciwidth) ..................................... Graphical user interface for precision and sample-size analysis
GUI (power) ..................................... Graphical user interface for power and sample-size analysis
power .............................................. Power and sample-size analysis for hypothesis tests
<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>power cmh</td>
<td>Power and sample size for the Cochran–Mantel–Haenszel test</td>
</tr>
<tr>
<td>power cox</td>
<td>Power analysis for the Cox proportional hazards model</td>
</tr>
<tr>
<td>power exponential</td>
<td>Power analysis for a two-sample exponential test</td>
</tr>
<tr>
<td>power logrank</td>
<td>Power analysis for the log-rank test</td>
</tr>
<tr>
<td>power logrank, cluster</td>
<td>Power analysis for the log-rank test, CRD</td>
</tr>
<tr>
<td>power mcc</td>
<td>Power analysis for matched case–control studies</td>
</tr>
<tr>
<td>power onecorrelation</td>
<td>Power analysis for a one-sample correlation test</td>
</tr>
<tr>
<td>power onemean</td>
<td>Power analysis for a one-sample mean test</td>
</tr>
<tr>
<td>power onemean, cluster</td>
<td>Power analysis for a one-sample mean test, CRD</td>
</tr>
<tr>
<td>power oneproportion</td>
<td>Power analysis for a one-sample proportion test</td>
</tr>
<tr>
<td>power oneproportion, cluster</td>
<td>Power analysis for a one-sample proportion test, CRD</td>
</tr>
<tr>
<td>power oneslope</td>
<td>Power analysis for a slope test in a simple linear regression</td>
</tr>
<tr>
<td>power oneway</td>
<td>Power analysis for one-way analysis of variance</td>
</tr>
<tr>
<td>power oneway</td>
<td>Power analysis for one-way analysis of variance</td>
</tr>
<tr>
<td>power oneway</td>
<td>Power analysis for one-way analysis of variance</td>
</tr>
<tr>
<td>power pairedmeans</td>
<td>Power analysis for a two-sample paired-means test</td>
</tr>
<tr>
<td>power pairedproportions</td>
<td>Power analysis for a two-sample paired-proportions test</td>
</tr>
<tr>
<td>power pcorr</td>
<td>Power analysis for a partial-correlation test in a multiple linear regression</td>
</tr>
<tr>
<td>power repeated</td>
<td>Power analysis for repeated-measures analysis of variance</td>
</tr>
<tr>
<td>power r_squared</td>
<td>Power analysis for an $R^2$ test in a multiple linear regression</td>
</tr>
<tr>
<td>power trend</td>
<td>Power analysis for the Cochran–Armitage trend test</td>
</tr>
<tr>
<td>power twocorrelations</td>
<td>Power analysis for a two-sample correlations test</td>
</tr>
<tr>
<td>power twomeans</td>
<td>Power analysis for a two-sample means test</td>
</tr>
<tr>
<td>power twomeans, cluster</td>
<td>Power analysis for a two-sample means test, CRD</td>
</tr>
<tr>
<td>power twoproportions</td>
<td>Power analysis for a two-sample proportions test</td>
</tr>
<tr>
<td>power twoproportions, cluster</td>
<td>Power analysis for a two-sample proportions test, CRD</td>
</tr>
<tr>
<td>power twovariances</td>
<td>Power analysis for a two-sample variances test</td>
</tr>
<tr>
<td>power twovariances</td>
<td>Power analysis for a two-sample variances test</td>
</tr>
<tr>
<td>power twoway</td>
<td>Power analysis for two-way analysis of variance</td>
</tr>
<tr>
<td>power usermethod</td>
<td>Add your own methods to the power command</td>
</tr>
<tr>
<td>power, graph</td>
<td>Graph results from the power command</td>
</tr>
<tr>
<td>power, table</td>
<td>Produce table of results from the power command</td>
</tr>
<tr>
<td>Unbalanced designs</td>
<td>Specifications for unbalanced designs</td>
</tr>
</tbody>
</table>

**Quality control**

<table>
<thead>
<tr>
<th>Program</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[R] QC</td>
<td>Quality control charts</td>
</tr>
<tr>
<td>[R] cusum</td>
<td>Cusum plots and tests for binary variables</td>
</tr>
<tr>
<td>[R] serrbar</td>
<td>Graph standard error bar chart</td>
</tr>
</tbody>
</table>

**ROC analysis**

<table>
<thead>
<tr>
<th>Program</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[U] Section 27.4.3</td>
<td>ROC analysis</td>
</tr>
<tr>
<td>[R] roc</td>
<td>Receiver operating characteristic (ROC) analysis</td>
</tr>
<tr>
<td>[R] roccomp</td>
<td>Tests of equality of ROC areas</td>
</tr>
<tr>
<td>[R] rocfit</td>
<td>Parametric ROC models</td>
</tr>
<tr>
<td>[R] rocfit postestimation</td>
<td>Postestimation tools for rocfit</td>
</tr>
<tr>
<td>[R] rocreg</td>
<td>Receiver operating characteristic (ROC) regression</td>
</tr>
<tr>
<td>[R] rocreg postestimation</td>
<td>Postestimation tools for rocreg</td>
</tr>
<tr>
<td>[R] rocregplot</td>
<td>Plot marginal and covariate-specific ROC curves after rocreg</td>
</tr>
<tr>
<td>[R] roctab</td>
<td>Nonparametric ROC analysis</td>
</tr>
</tbody>
</table>
Rotation

[MV] procrustes ........................................... Procrustes transformation
[MV] rotate .................................. Orthogonal and oblique rotations after factor and pca
[MV] rotatemat ........................... Orthogonal and oblique rotations of a Stata matrix

Sample selection models

[U] Chapter 20 .................................. Estimation and postestimation commands
[U] Section 27.13 ............................ Models with endogenous sample selection
[BAYES] Bayesian estimation ..................... Bayesian estimation commands
[ERM] eintreg ................................... Extended interval regression
[ERM] eoprobit .................................... Extended ordered probit regression
[ERM] eprobit .................................. Extended probit regression
[ERM] eregress .................................. Extended linear regression
[TE] etpoisson ................................ Poisson regression with endogenous treatment effects
[TE] etregress ................................ Linear regression with endogenous treatment effects
[R] heckman ..................................... Heckman selection model
[R] heckoprobit ................................ Ordered probit model with sample selection
[R] heckpoisson ................................ Poisson regression with sample selection
[R] heckprob .................................. Probit model with sample selection
[XT] xteintreg .................................. Extended random-effects interval regression
[XT] xteoprobit ................................ Extended random-effects ordered probit regression
[XT] xteprobit ................................ Extended random-effects probit regression
[XT] xteregress ................................ Extended random-effects linear regression
[XT] xtheckman ................................ Random-effects regression with sample selection

Simulation/resampling

[R] bootstrap .................................... Bootstrap sampling and estimation
[R] bsample ................................ Sampling with replacement
[R] jackknife .................................. Jackknife estimation
[R] permute ................................ Monte Carlo permutation tests
[R] simulate ................................ Monte Carlo simulations

Spatial autoregressive models

[U] Section 27.19 ................................... Spatial autoregressive models
[SP] Intro ................................... Introduction to spatial data and SAR models
[SP] Intro 1 ................................ A brief introduction to SAR models
[SP] Intro 2 ...................................... The W matrix
[SP] Intro 3 ...................................... Preparing data for analysis
[SP] Intro 4 ................................ Preparing data: Data with shapefiles
[SP] Intro 5 ................................ Preparing data: Data containing locations (no shapefiles)
[SP] Intro 6 ................................ Preparing data: Data without shapefiles or locations
[SP] Intro 7 ................................ Example from start to finish
[SP] Intro 8 ...................................... The Sp estimation commands
[SP] estat moran ......................... Moran’s test of residual correlation with nearby residuals
[SP] grmap ......................................... Graph choropleth maps
[SP] spbalance ................................ Make panel data strongly balanced
[SP] spcompress ................................ Compress Stata-format shapefile
[SP] spdistance ................................ Calculator for distance between places
[SP] spgenerate ................................ Generate variables containing spatial lags
[SP] spivregress ................................ Spatial autoregressive models with endogenous covariates
Standard postestimation tests, tables, and other analyses

[U] Section 13.5 ................. Accessing coefficients and standard errors
[U] Chapter 20 ................. Estimation and postestimation commands
[R] contrast ........................ Contrasts and linear hypothesis tests after estimation
[R] correlate ........................ Correlations of variables
[R] estat ............................ Postestimation statistics
[R] estat ic .......................... Display information criteria
[R] estat summarize ................ Summarize estimation sample
[R] estat vce ........................ Display covariance matrix estimates
[R] estimates ........................ Save and manipulate estimation results
[R] estimates describe ......... Describe estimation results
[R] estimates for .................. Repeat postestimation command across models
[R] estimates notes .............. Add notes to estimation results
[R] estimates replay ............. Redisplay estimation results
[R] estimates save .............. Save and use estimation results
[R] estimates selected ........ Show selected coefficients
[R] estimates stats .............. Model-selection statistics
[R] estimates store .............. Store and restore estimation results
[R] estimates table .............. Compare estimation results
[R] estimates title .............. Set title for estimation results
[TS] forecast ...................... Econometric model forecasting
[TS] forecast adjust ............. Adjust variables to produce alternative forecasts
[TS] forecast clear .............. Clear current model from memory
[TS] forecast coefvector ......... Specify an equation via a coefficient vector
[TS] forecast create .............. Create a new forecast model
[TS] forecast describe .......... Describe features of the forecast model
[TS] forecast exogenous ......... Declare exogenous variables
[TS] forecast identity .......... Add an identity to a forecast model
[TS] forecast list ................. List forecast commands composing current model
**Structural equation modeling**

| [TS] | Section 27.24 | Structural equation modeling (SEM) |
| [SEM] | Builder | SEM Builder |
| [SEM] | Builder, generalized | SEM Builder for generalized models |
| [SEM] | Intro 1 | Introduction |
| [SEM] | Intro 2 | Learning the language: Path diagrams and command language |
| [SEM] | Intro 3 | Learning the language: Factor-variable notation (gsem only) |
| [SEM] | Intro 4 | Substantive concepts |
| [SEM] | Intro 5 | Tour of models |
| [SEM] | Intro 6 | Comparing groups |
| [SEM] | Intro 7 | Postestimation tests and predictions |
| [SEM] | Intro 8 | Robust and clustered standard errors |
| [SEM] | Intro 9 | Standard errors, the full story |
| [SEM] | Intro 10 | Fitting models with survey data |
| [SEM] | Intro 11 | Fitting models with summary statistics data (sem only) |
| [SEM] | Intro 12 | Convergence problems and how to solve them |
| [SEM] | estat eform | Estimate exponentiated coefficients |
| [SEM] | estat eqgof | Equation-level goodness-of-fit statistics |
| [SEM] | estat eqtest | Equation-level tests that all coefficients are zero |
| [SEM] | estat framework | Display estimation results in modeling framework |
| [SEM] | estat ggof | Group-level goodness-of-fit statistics |
| [SEM] | estat ginvariant | Tests for invariance of parameters across groups |
| [SEM] | estat gof | Goodness-of-fit statistics |
| [SEM] | estat legof | Latent class goodness-of-fit statistics |
| [SEM] | estat lcmean | Latent class marginal means |
| [SEM] | estat lcp | Latent class marginal probabilities |
| [SEM] | estat mindices | Modification indices |
| [SEM] | estat residuals | Display mean and covariance residuals |
| [SEM] | estat sc | Score tests |
| [SEM] | estat sd | Display variance components as standard deviations and correlations |
Combined subject table of contents

- Check stability of nonrecursive system
- Test standardized parameters
- Report summary statistics for estimation sample
- Decomposition of effects into total, direct, and indirect
- Single-factor measurement model
- Creating a dataset from published covariances
- Two-factor measurement model
- Goodness-of-fit statistics
- Modification indices
- Linear regression
- Nonrecursive structural model
- Testing that coefficients are equal, and constraining them
- Structural model with measurement component
- MIMIC model
- Seemingly unrelated regression
- Equation-level Wald test
- Predicted values
- Higher-order CFA
- Correlation
- Correlated uniqueness model
- Latent growth model
- Creating multiple-group summary statistics data
- Two-factor measurement model by group
- Group-level goodness of fit
- Testing parameter equality across groups
- Specifying parameter constraints across groups
- Reliability
- Creating summary statistics data from raw data
- Fitting a model with data missing at random
- Single-factor measurement model (generalized response)
- One-parameter logistic IRT (Rasch) model
- Two-parameter logistic IRT model
- Two-level measurement model (multilevel, generalized response)
- Two-factor measurement model (generalized response)
- Full structural equation model (generalized response)
- Logistic regression
- Combined models (generalized responses)
- Ordered probit and ordered logit
- MIMIC model (generalized response)
- Multinomial logistic regression
- Random-intercept and random-slope models (multilevel)
- Three-level model (multilevel, generalized response)
- Crossed models (multilevel)
- Two-level multinomial logistic regression (multilevel)
- One- and two-level mediation models (multilevel)
- Tobit regression
- Interval regression
- Heckman selection model
- Endogenous treatment-effects model
- Exponential survival model
| [SEM] | Example 48g | Loglogistic survival model with censored and truncated data |
| [SEM] | Example 49g | Multiple-group Weibull survival model |
| [SEM] | Example 50g | Latent class model |
| [SEM] | Example 51g | Latent class goodness-of-fit statistics |
| [SEM] | Example 52g | Latent profile model |
| [SEM] | Example 53g | Finite mixture Poisson regression |
| [SEM] | Example 54g | Finite mixture Poisson regression, multiple responses |
| [SEM] | gsem | Generalized structural equation model estimation command |
| [SEM] | gsem estimation options | Options affecting estimation |
| [SEM] | gsem family-and-link options | Family-and-link options |
| [SEM] | gsem group options | Fitting models on different groups |
| [SEM] | gsem lclass options | Fitting models with latent classes |
| [SEM] | gsem model description options | Model description options |
| [SEM] | gsem path notation extensions | Command syntax for path diagrams |
| [SEM] | gsem postestimation | Postestimation tools for gsem |
| [SEM] | gsem reporting options | Options affecting reporting of results |
| [SEM] | lincom | Linear combinations of parameters |
| [SEM] | lrtest | Likelihood-ratio test of linear hypothesis |
| [SEM] | Methods and formulas for gsem | Methods and formulas for gsem |
| [SEM] | Methods and formulas for sem | Methods and formulas for sem |
| [SEM] | nlcom | Nonlinear combinations of parameters |
| [SEM] | predict after gsem | Generalized linear predictions, etc. |
| [SEM] | predict after sem | Factor scores, linear predictions, etc. |
| [SEM] | sem | Structural equation model estimation command |
| [SEM] | sem and gsem option constraints( ) | Specifying constraints |
| [SEM] | sem and gsem option covstructure( ) | Specifying covariance restrictions |
| [SEM] | sem and gsem option from( ) | Specifying starting values |
| [SEM] | sem and gsem option reliability( ) | Fraction of variance not due to measurement error |
| [SEM] | sem and gsem path notation | Command syntax for path diagrams |
| [SEM] | sem and gsem syntax options | Options affecting interpretation of syntax |
| [SEM] | sem estimation options | Options affecting estimation |
| [SEM] | sem group options | Fitting models on different groups |
| [SEM] | sem model description options | Model description options |
| [SEM] | sem option method( ) | Specifying method and calculation of VCE |
| [SEM] | sem option noxconditional | Computing means, etc., of observed exogenous variables |
| [SEM] | sem option select( ) | Using sem with summary statistics data |
| [SEM] | sem path notation extensions | Command syntax for path diagrams |
| [SEM] | sem postestimation | Postestimation tools for sem |
| [SEM] | sem reporting options | Options affecting reporting of results |
| [SEM] | sem ssd options | Options for use with summary statistics data |
| [SEM] | ssd | Making summary statistics data (sem only) |
| [SEM] | test | Wald test of linear hypotheses |
| [SEM] | testnl | Wald test of nonlinear hypotheses |

**Survey data**

| [U] | Chapter 20 | Estimation and postestimation commands |
| [U] | Section 27.30 | Survey data |
| [SVY] | Survey | Introduction to survey commands |
| [SVY] | bootstrap_options | More options for bootstrap variance estimation |
| [SVY] | brr_options | More options for BRR variance estimation |
| [SVY] | Calibration | Calibration for survey data |
Survival analysis

[U] Chapter 20 .............................. Estimation and postestimation commands
[U] Section 27.15.5 ........................ Survival models with panel data
[U] Section 27.17 .............................. Survival analysis models
[U] Section 27.20 .............................. Treatment-effects models
[U] Section 27.32 .............................. Power, precision, and sample-size analysis
[ST] Survival analysis ........................ Introduction to survival analysis
[ST] adjustfor_option ........................ Adjust survivor and related functions for covariates at specific values
[BAYES] bayes: streg .............................. Bayesian parametric survival models
[ST] ct ........................................ Count-time data
[ST] ctset ..................................... Declare data to be count-time data
[ST] cttost .................................... Convert count-time data to survival-time data
[ST] Discrete .................................. Discrete-time survival analysis
[FMM] fmm: streg ................................. Finite mixtures of parametric survival models
[ST] itable ..................................... Life tables for survival data
[ME] mestreg .................................... Multilevel mixed-effects parametric survival models
[ST] snapspan .................................. Convert snapshot data to time-span data
[ST] st ........................................... Survival-time data
[ST] st_is ...................................... Survival analysis subroutines for programmers
[ST] stbase ..................................... Form baseline dataset
[ST] stci ....................................... Confidence intervals for means and percentiles of survival time
[ST] stcox ...................................... Cox proportional hazards model
[ST] stcox PH-assumption tests ........ Tests of proportional-hazards assumption after stcox
[ST] stcrreg .................................... Competing-risks regression
[ST] stcurve ................................... Plot the survivor or related function after streg, stcox, and others
[ST] stdescribe ................................. Describe survival-time data
[R] stepwise ................................... Stepwise estimation
[ST] stfill .............................. Fill in by carrying forward values of covariates
[ST] stgen ................................. Generate variables reflecting entire histories
[ST] stintcox ........................... Cox proportional hazards model for interval-censored survival-time data
[ST] stintcox PH-assumption plots  Plots of proportional-hazards assumption after stintcox
[ST] streg ................................. Parametric models for interval-censored survival-time data
[ST] stir ................................. Report incidence-rate comparison
[ST] stptime ............................. Calculate person-time, incidence rates, and SMR
[ST] strate .................................. Tabulate failure rates and rate ratios
[ST] streg .................................. Parametric survival models
[ST] sts ................................ Create variables containing survivor and related functions
[ST] sts generate ......................... Graph the survivor or related function
[ST] sts list ............................... List the survivor or related function
[ST] sts test .............................. Test equality of survivor functions
[ST] stset .................................. Declare data to be survival-time data
[ST] stsum .................................. Summarize survival-time data
[TE] stteffects ipw ........................ Survival-time inverse-probability weighting
[TE] stteffects ipwra ..................... Survival-time inverse-probability-weighted regression adjustment
[TE] stteffects ra .......................... Survival-time regression adjustment
[TE] stteffects wra ....................... Survival-time weighted regression adjustment
[ST] sttocc ................................ Convert survival-time data to case–control data
[ST] sttocc ................................ Convert survival-time data to count-time data
[ST] stvar ................................ Report variables that vary over time
[XT] xsttreg ................................ Random-effects parametric survival models

Also see Power, precision, and sample size.

Time series, multivariate

[TS] Section 11.4.4 ........................ Time-series varlists
[TS] Section 13.10 ........................ Time-series operators
[TS] Chapter 20 ............................ Estimation and postestimation commands
[TS] Section 27.14 ........................ Time-series models
[TS] Time series ............................ Introduction to time-series commands
[BAYES] bayesirf graph .................... Graphs of Bayesian IRFs, dynamic-multiplier functions, and FEVDs
[TS] dfactor ................................ Dynamic-factor models
[TS] fcast compute ......................... Compute dynamic forecasts after var, svar, or vec
[TS] fcast graph ............................ Graph forecasts after fcast compute
[TS] forecast ................................ Econometric model forecasting
[TS] forecast adjust ......................... Adjust variables to produce alternative forecasts
[TS] forecast clear ........................ Clear current model from memory
[TS] forecast coefvector .................. Specify an equation via a coefficient vector
[TS] forecast create ....................... Create a new forecast model
[TS] forecast describe .................... Describe features of the forecast model
[TS] forecast drop ........................ Drop forecast variables
[TS] forecast estimates .................... Add estimation results to a forecast model
[TS] forecast exogenous .................. Declare exogenous variables
[TS] forecast identity .................... Add an identity to a forecast model
[TS] forecast list ........................ List forecast commands composing current model
[TS] forecast query ....................... Check whether a forecast model has been started
Combined subject table of contents

**Time series, univariate**
- **Section 11.4.4**: Time-series varlists
- **Section 13.10**: Time-series operators
- **Chapter 20**: Estimation and postestimation commands
- **Section 27.14**: Time-series models
- **Time series**: Introduction to time-series commands
- **arch**: Autoregressive conditional heteroskedasticity (ARCH) family of estimators
[TS] arfima ............... Autoregressive fractionally integrated moving-average models
[TS] arima ............... ARIMA, ARMAX, and other dynamic regression models
[TS] corrgram ......................... Tabulate and graph autocorrelations
[TS] csm ......................... Graph cumulative spectral distribution
[TS] dfgls ......................... Augmented Dickey–Fuller unit-root test
[TS] dffuller ....................... Augmented Dickey–Fuller unit-root test
[TS] estat acplot ............. Plot parametric autocorrelation and autocovariance functions
[TS] estat aroots .................. Check the stability condition of ARIMA estimates
[TS] estat sbcum .................. Cumulative sum test for parameter stability
[TS] estat sbknown ............. Test for a structural break with a known break date
[TS] estat sbsingle .............. Test for a structural break with an unknown break date
[TS] forecast ....................... Econometric model forecasting
[TS] forecast adjust ............ Adjust variables to produce alternative forecasts
[TS] forecast clear .............. Clear current model from memory
[TS] forecast coeffvector ........ Specify an equation via a coefficient vector
[TS] forecast create ............. Create a new forecast model
[TS] forecast describe ........... Describe features of the forecast model
[TS] forecast drop ............... Drop forecast variables
[TS] forecast estimates ........... Add estimation results to a forecast model
[TS] forecast exogenous ........ Declare exogenous variables
[TS] forecast identity .......... Add an identity to a forecast model
[TS] forecast list ............... List forecast commands composing current model
[TS] forecast query .............. Check whether a forecast model has been started
[TS] forecast solve ............... Obtain static and dynamic forecasts
[TS] mswitch ....................... Markov-switching regression models
[TS] newey ......................... Regression with Newey–West standard errors
[TS] pergram ........................ Periodogram
[TS] pperron ....................... Phillips–Perron unit-root test
[TS] prais .......................... Prais–Winsten and Cochrane–Orcutt regression
[TS] psdensity ..................... Parametric spectral density estimation after arima, arfima, and ucm
[TS] regres postestimation time series Postestimation tools for regress with time series
[TS] rolling ......................... Rolling-window and recursive estimation
[TS] sspace ........................ State-space models
[TS] threshold ...................... Threshold regression
[TS] tsappend ....................... Add observations to a time-series dataset
[TS] tsfill ........................ Fill in gaps in time variable
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[TS] tsreport ....................... Report time-series aspects of a dataset or estimation sample
[TS] tsrevar ....................... Time-series operator programming command
[TS] tsset ........................ Declare data to be time-series data
[TS] tssmooth ........................ Smooth and forecast univariate time-series data
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[P] matrix define .................................. Matrix definition, operators, and functions
[P] matrix utility ................................... List, rename, and drop matrices

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[P] matrix accum ................................... Form cross-product matrices
[P] matrix rowjoinbyname ......................... Join rows while matching on column names
[P] matrix rownames ................................ Name rows and columns
[P] matrix score .................................... Score data from coefficient vectors
[R] ml .................................................. Maximum likelihood estimation

Other
[P] makecns ........................................ Constrained estimation
[P] matrix dissimilarity ......................... Compute similarity or dissimilarity measures
[P] matrix eigenvalues ............................ Eigenvalues of nonsymmetric matrices
[P] matrix get ....................................... Access system matrices
[P] matrix mkmat .................................. Convert variables to matrix and vice versa
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Mata
[D] putmata ......................................... Put Stata variables into Mata and vice versa

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[U] Chapter 18 ........................................ Programming Stata
[U] Section 18.3 ..................................... Macros
[U] Section 18.11 .................................... Ado-files
[P] comments ....................................... Add comments to programs
[P] fvexpand ....................................... Expand factor varlists
[P] macro .......................................... Macro definition and manipulation
[P] program ........................................ Define and manipulate programs
[P] return .......................................... Return stored results
Program control

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[ ] capture ....................................................... Capture return code
[ ] continue ..................................................... Break out of loops
[ ] error .......................................................... Display generic error message and exit
[ ] foreach ........................................................ Loop over items
[ ] forvalues .................................................... Loop over consecutive values
[ ] if ............................................................. if programming command
[ ] version ....................................................... Version control
[ ] while ........................................................ Loopying

Parsing and program arguments

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[ ] confirm ....................................................... Argument verification
[ ] gettoken ..................................................... Low-level parsing
[ ] levelsof ..................................................... Distinct levels of a variable
[ ] numlist ...................................................... Parse numeric lists
[ ] syntax ......................................................... Parse Stata syntax
[ ] tokenize ..................................................... Divide strings into tokens

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[ ] Dialog programming ...................................... Dialog programming
[ ] display ....................................................... Display strings and values of scalar expressions
[ ] smcl .......................................................... Stata Markup and Control Language
[ ] tabdisp ....................................................... Display tables
[ ] unicode ...................................................... Unicode utilities

Commonly used programming commands

[ ] byable ....................................................... Make programs byable
[ ] #delimit ..................................................... Change delimiter
[ ] exit .......................................................... Exit from a program or do-file
[ ] fvrevar ..................................................... Factor-variables operator programming command
[ ] mark .......................................................... Mark observations for inclusion
[ ] matrix ......................................................... Introduction to matrix commands
[ ] more .......................................................... Pause until key is pressed
[ ] nopreserve option .......................................... nopreserve option
[ ] preserve ...................................................... Preserve and restore data
[ ] quietly ....................................................... Quietly and noisily perform Stata command
[ ] scalar ......................................................... Scalar variables
[ ] smcl .......................................................... Stata Markup and Control Language
[ ] sortpreserve ................................................ Sort within programs
[ ] timer ......................................................... Time sections of code by recording and reporting time spent
[TS] tsrevar ..................................................... Time-series operator programming command

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[ ] pause ....................................................... Program debugging command
[ ] timer ......................................................... Time sections of code by recording and reporting time spent
[ ] trace ........................................................ Debug Stata programs
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char Characteristics
class Object-oriented programming (classes)
class Class programming
class exit Exit class-member program and return result
classutil Class programming utility
_docx*( ) Generate Office Open XML (.docx) document to a PDF file
Dynamic documents intro Introduction to dynamic documents
Dynamic tags Dynamic tags for text files
dyndoc Convert dynamic Markdown document to HTML or Word (.docx) document
dyntext Process Stata dynamic tags in text file
estat programming Controlling estat after community-contributed commands
_estimates Manage estimation results
Estimation command How to program an estimation command
file Read and write text and binary files
findfile Find file in path
frame post Post results to dataset in another frame
H2O intro Introduction to integration with H2O
html2docx Convert an HTML file to a Word (.docx) document
include Include commands from file
Java integration Java integration for Stata
Java intro Introduction to Java in Stata
Java plugin Introduction to Java plugins
Java utilities Java utilities
javacall Call a Java plugin
LinearProgram() Linear programming
macro Macro definition and manipulation
macro lists Manipulate lists
markdown Convert Markdown document to HTML file or Word (.docx) document
ml Maximum likelihood estimation
moptimize() Model optimization
optimize() Function optimization
Pdf*( ) Create a PDF file
plugin Load a plugin
postfile Post results in Stata dataset
_predict Obtain predictions, residuals, etc., after estimation programming command
program properties Properties of user-defined programs
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putdocx pagebreak Add breaks to an Office Open XML (.docx) file
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putexcel advanced Export results to an Excel file
putdocx collect
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**Special-interest programming commands**

- **[R]** bstat .......................................................... Report bootstrap results
- **[MV]** cluster programming subroutines .......................... Add cluster-analysis routines
- **[MV]** cluster programming utilities ............................... Cluster-analysis programming utilities
- **[R]** fvrevar ....................................................... Factor-variables operator programming command
- **[P]** matrix dissimilarity ......................................... Compute similarity or dissimilarity measures
- **[MI]** mi select ..................................................... Programmer’s alternative to mi extract
- **[ST]** st.is ......................................................... Survival analysis subroutines for programmers
- **[SVY]** svymarkout .................................................. Mark observations for exclusion on the basis of survey characteristics
- **[MI]** Technical ..................................................... Details for programmers
- **[TS]** tsrevar ....................................................... Time-series operator programming command

**Projects**

- **[P]** Project Manager ............................................ Organize Stata files

**File formats**

- **[P]** File formats .dta .......................................... Description of .dta file format
- **[D]** unicode convertfile ......................................... Low-level file conversion between encodings
- **[D]** unicode translate ........................................... Translate files to Unicode

**Mata**

- **[M]** Mata Reference Manual ....................................

**Combined subject table of contents**

- **[D]** putmata .......................................................... Put Stata variables into Mata and vice versa
- **[RPT]** putpdf begin .................................................. Create a PDF file
- **[RPT]** putpdf collect .............................................. Add a table from a collection to a PDF file
- **[RPT]** putpdf intro .................................................. Introduction to generating PDF files
- **[RPT]** putpdf pagebreak .......................................... Add breaks to a PDF file
- **[RPT]** putpdf paragraph .......................................... Add text or images to a PDF file
- **[RPT]** putpdf table .................................................. Add tables to a PDF file
- **[P]** PyStata intro .................................................. Introduction to using Python and Stata together
- **[P]** PyStata integration .......................................... Call Python from Stata
- **[P]** PyStata module ............................................... Python package pystata to call Stata from Python
- **[M-5]** Quadrature( ) .............................................. Numerical integration
- **[P]** _return .......................................................... Preserve stored results
- **[P]** _rmcoll ......................................................... Remove collinear variables
- **[P]** _robust ........................................................... Robust variance estimates
- **[P]** serset ........................................................... Create and manipulate sersets
- **[D]** snapshot ........................................................ Save and restore data snapshots
- **[P]** unab ............................................................. Unabbreviate variable list
- **[P]** unabcmd ........................................................ Unabbreviate command name
- **[D]** unicode collator ............................................. Language-specific Unicode collators
- **[D]** unicode convertfile ......................................... Low-level file conversion between encodings
- **[P]** varabbrev ....................................................... Control variable abbreviation
- **[P]** viewsource ..................................................... View source code
- **[M-5]** xl( ) ............................................................ Excel file I/O class

**Projects**

- **[P]** Project Manager ............................................ Organize Stata files

**File formats**

- **[P]** File formats .dta .......................................... Description of .dta file format
- **[D]** unicode convertfile ......................................... Low-level file conversion between encodings
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- **[M]** Mata Reference Manual ....................................

**Customizable tables and collections**

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[TABLES] Intro 5 .................................................. Other tabulation commands
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[RPT] dyntext ................................................................. Process Stata dynamic tags in text file
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GLM  generalized linear models
GLS  generalized least squares
GMM  generalized method of moments
GPCM  generalized partial credit model
GRM  graded response model
GS2SLS  generalized spatial two-stage least squares
GSEM  generalized structural equation modeling/model
GUI  graphical user interface

HAC  heteroskedasticity- and autocorrelation-consistent
HPD  highest posterior density
HR  hazard ratio
HSB  hue, saturation, and brightness
HSL  hue, saturation, and luminance
HSV  hue, saturation, and value
HTML  hypertext markup language

IC  information criteria
ICC  item characteristic curve
ICD-9  International Classification of Diseases, Ninth Revision
ICD-10  International Classification of Diseases, Tenth Revision
ICD-10-CM  International Classification of Diseases, Tenth Revision, Clinical Modification
ICD-10-PCS  International Classification of Diseases, Tenth Revision, Procedure Coding System
ICU  International Components for Unicode
IIA  independence of irrelevant alternatives
i.i.d.  independent and identically distributed
IIF  item information function
IPW  inverse-probability weighting
IPWRA  inverse-probability-weighted regression adjustment
IQR  interquartile range
IR  incidence rate
IRF  impulse–response function
IRLS  iterated, reweighted least squares
IRR  incidence-rate ratio
IRT  item response theory
IV  instrumental variables

JAR  Java Archive file
JCA  joint correspondence analysis
JDBC  Java Database Connectivity
JPEG  Joint Photographic Experts Group
JRE  Java Runtime Environment
JVM  Java Virtual Machine

LAPACK  linear algebra package
LASSO  least absolute shrinkage and selection operator
LAV  least absolute value
LCA  latent class analysis
LDA  linear discriminant analysis
LIML  limited-information maximum likelihood
LM  Lagrange multiplier
LOO  leave one out
LOWESS  locally weighted scatterplot smoothing
LR  likelihood ratio
LSB  least-significant byte

MA  moving average
MAD  median absolute deviation
MANCOVA  multivariate analysis of covariance
MANOVA  multivariate analysis of variance
MAR  missing at random
MCA    multiple correspondence analysis
MCAGHQ  mode-curvature adaptive Gauss–Hermite quadrature
MCAR    missing completely at random
MCE     Monte Carlo error
MCMC    Markov chain Monte Carlo
MCSE    MCMC standard errors
MDES    minimum detectable effect size
MDS     multidimensional scaling
ME      multiple equation
MEFF    misspecification effect
MEFT    misspecification effect (standard deviation metric)
MFP     multivariable fractional polynomial
MI / mi multiple imputation
midp    mid-$p$-value
MIMIC   multiple indicators and multiple causes
MINQUE  minimum norm quadratic unbiased estimation
MIVQUE  minimum variance quadratic unbiased estimation
ML      maximum likelihood
MLE     maximum likelihood estimate
MLMV    maximum likelihood with missing values
mlong   marginal long
MM      method of moments
MNAR    missing not at random
MNL     multinomial logit
MNP     multinomial probit
MPL     modified profile likelihood
MS      mean square
MSAR    Markov-switching autoregression
MSB     most-significant byte
MSDR    Markov-switching dynamic regression
MSE     mean squared error
MSL     maximum simulated likelihood
MSS     model sum of squares
MUE     median unbiased estimates
MVAGHQ  mean–variance adaptive Gauss–Hermite quadrature
MVN     multivariate normal
MVREG   multivariate regression
NARCH   nonlinear ARCH
NHANES  National Health and Nutrition Examination Survey
NLS     nonlinear least squares
NPARCH  nonlinear power ARCH
NPMLE   nonparametric maximum-likelihood estimation
NR      Newton–Raphson
NRM     nominal response model
ODBC    Open DataBase Connectivity
OIM     observed information matrix
OIRF    orthogonalized impulse–response function
OLE     Object Linking and Embedding (Microsoft product)
OLS     ordinary least squares
OPG     outer product of the gradient
OR      odds ratio
PA      population averaged
PARCH   power ARCH
PCA     principal component analysis
PCM     partial credit model
PCSE    panel-corrected standard error
PDF     Portable Document Format
p.d.f.  probability density function
PFE     prevented fraction among the exposed
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McDonald, A., [ME] menbreg, [ME] mepoisson,
[SEM] Example 39g
McDonald, J. A., [R] sunflower
McDonald, J. F., [R] tobit, [R] tobit postestimation
McDonald, R. P., [IRT] irt
McDougal, L. K., [D] icd10
McDowell, A., [R] boxcox, [R] marginsplot, [R] table oneway, [R] table twoway, [R] table multiway,
[R] table summary, [R] table hypothesis tests, [R] table regression, [RPT] putdocx collect,
[SVY] estat, [SVY] Subpopulation estimation,
[SVY] svydesc, [TABLES] collect label,
[TABLES] collect recode, [TABLES] collect remap, [TABLES] collect use, [TABLES] collect layout,
[TABLES] collect style column, [TABLES] collect style _cons, [TABLES] collect style row,
[TABLES] collect style showbase, [TABLES] collect style showempty,
[TABLES] collect style table, [TABLES] collect style use, [TABLES] Example 1,
[TABLES] Example 2, [TABLES] Example 3,
[TABLES] Example 4, [TABLES] Example 5,
[TABLES] Example 6, [TABLES] Example 7
McDowell, A. W., [R] sureg, [TS] arima
McFadden, D. L., [CM] Intro 5, [CM] Intro 8,
[CM] cmclogit, [CM] cmcmmlogit,
[CM] cmnmprobit, [CM] cmxtnmlogit,
[CM] nlogit, [R] ologit, [R] hausman,
[R] Maximize, [R] suest, [TE] etregress,
[TE] stteffects ipwra, [TE] stteffects aipw
McGilchrist, C. A., [ST] stcox, [ST] streg
McGill, R., [R] sunflower
McGinnis, R. E., [R] symmetry
McGraw, K. O., [R] icc
McKelvey, R. D., [R] ologit
McKenney, A., [ME] mestreg
McKelvey, R. D., [R] ologit
[P] matrix eigenvalues
McLachlan, G. J., [FMM] fmm intro,
[FMM] Example 1a, [ME] me, [ME] melogit,
[ME] meprobit, [ME] mepoisson,
[ME] mestreg, [MV] discrim, [MV] discrim estat,
[MV] discrim knn, [MV] discrim lda
McLain, A. C., [R] nbreg, [R] poisson
McLeod, A. I., [TS] arima, [TS] ucm
McMahan, C. S., [ST] stintcox
McNeil, D., [R] poisson, [ST] sterreg
Mc Nemar, Q., [PSS-2] power paired proportions, [R] Epitab
McPherson, K., [META] meta esize, [META] meta summarize
McQuay, H. J., [META] meta
Mead, R., [M-5] optimize()
Mealli, F., [MI] Intro substantive
Meekes, J., [MV] cluster
Meikle, B., [R] Mileti, A., [M-5] LinearProgram() (power)
Mehta, P. D., [SEM] Example 52g
Meibohm, A. R., [META] meta summarize
Mei jering, E., [D] ipolate
Meinert, C. L., [META] Intro
Meiselman, D., [TS] arima
Melly, B., [R] qreg, [TE] tefects multivalued
Mendenhall, W., III, [SVY] Survey
Mensing, R. W., [R] anova postestimation
Mentre, F., [ME] menl
Mergoupis, T., [TE] etregress, [TE] tefects intro advanced
Merryman, S., [XT] xtunitroot
Mesbah, M., [R] anova, [R] logistic
Messner, S. F., [SP] estat moran, [SP] sproregress, [SP] spxtregress
Mészáros, C., [M-5] LinearProgram() (power)
Metropolis, N., [BAYES] Intro, [BAYES] bayesmh
Metz, C. E., [R] Iroc
Metzger, S. K., [ST] stcox postestimation
Meulders, M., [MI] Intro substantive, [MI] mi impute
Meyer, B. D., [ST] Discrete
Miao, W., [R] sdttest
Micai, N., [MI] mi estimate, [MI] mi impute, [XT] xtgee
Michael, J. R., [FN] Random-number functions
Michel-Pajus, A., [M-5] cholesky()
Michener, C. D., [MV] measure_option
Michler, J. D., [XT] xtgee, [XT] xtreg
Michuda, A., [XT] xtgee, [XT] xtreg
Mickey, M. R., [MV] discrim estat
Midhune, D., [SVY] estat, [SVY] svy estimation
Mielke, P. W., Jr., [R] brier, [R] ranksum
Miettinen, O. S., [R] Epitab
Mihaly, K., [R] areg, [XT] xtreg
Miller, A. B., [R] kappa
Miller, D. J., [PSS-2] Intro (power), [R] esize
Miller, H. W., [SVY] Survey, [SVY] svy estimation
Miller, J. L., [TS] sspace
Miller, R. G., [SEM] Example 52g
Milligan, G. W., [MV] cluster, [MV] cluster programming subroutines, [MV] cluster stop
Milosevic, M., [ST] stcrreg, [ST] stcrreg postestimation
Min, C.-K., [BAYES] Intro
Minder, C., [META] Intro, [META] meta bias, [META] Glossary
Miquel, J., [BAYES] Intro
Mitchell, C., [R] exlogistic
Mitra, G., [M-5] LinearProgram()
Miura, H., [U] 14.11 Reference
Moffatt, P. G., [R] churdle
Moffit, R. A., [R] tobit, [R] tobit postestimation

Piano Mortari, A., [SP] Intro

Piantadosi, S., [P] _robust, [U] 20.26 References


Pierce, D. A., [ME] me

Pierce, G. S., [M-5] LinearProgram()

Pierson, R. A., [ME] menl

Piessens, R., [FMM] fmm intro

Piessens, R., [M-5] Quadrature()

Piet, L., [FMM] fmm intro

Pletsch, T. W., [MV] cluster dendrogram

Pigott, T. D., [META] meta summarize, [META] meta mvregress


Pildava, S., [XT] xtgee

Pillai, K. C. S., [MV] canon, [MV] manova

Pillemer, D. B., [META] Intro, [META] meta, [META] meta funnelplot

Pindyck, R. S., [ERM] eprobit, [R] biprobit, [R] heckprobit


Pintilie, M., [ST] stcrreg, [ST] stcrreg postestimation


Pisati, M., [SP] Intro, [SP] gmap


Pitarakis, J.-Y., [TS] threshold, [TS] vecrank


Plan, E. L., [ME] menl


Plöberger, W., [TS] estat sbcusum, [TS] estat sbsingle

Plosser, C. I., [TS] vecrank

Plum, A., [XT] xtprobit


Plümper, T., [SP] Intro

Poegle, F., [R] roctab


Poirier, D. J., [BAYES] Intro, [R] biprobit

Poisson, S. D., [R] poisson

Pokhrel, A., [ST] sts

Pokropek, A., [DI] import, [RPT] dyndoc

Pole, A., [BAYES] Intro

Pollard, W. E., [BAYES] Intro


Ponce de Leon, A., [R] roocomp, [R] roctab

Poole, C., [META] meta trimfill

Porter, T. M., [R] correlate

Portes, A., [SEM] Example 7

Posten, H. O., [FN] Statistical functions

Postma, M. J., [R] betareg

Potter, J. M., [TE] tesslo


Powell, H., [META] meta data


Prais, S. J., [TS] prais

Prakash, R., [ME] mestreg

Pratt, J. W., [R] signrank

Pratt, T. C., [META] Intro

Preacher, K. J., [R] esize, [R] regress postestimation, [SEM] Example 42g
Robins, J. M., continued
Robins, R. P., [TS] arch
Robinson, A., [M-5] Toeplitz()
Robinson, K. L., [IRT] irt
Robinson, L., [META] meta mvregress
Robson, K., [ME] mixed
 Rodgers, J. L., [R] correlate
Rogers, D. J., [MV] mixed
Rogers, C. A., [R]
Ronning, G., [R]
Roonchetti, E. M., [D]
Ronald, J., [MV] measure_option
[U] 20.26 References
Rogoff, K., [XT] xtunitroot
Rohlff, J. F., [MV] cluster, [MV] measure_option
Rohwer, G., [ME] mestreg
Rojas, P. B., [PSS-2] power cmh
Rolin, J.-M., [IRT] irt 3pl
Romano, J. P., [R] test
Rombouts, J. V. K., [TS] mgarch
Romney, A. K., [MV] ca
Ronchetti, E. M., [D] egen, [R] qreg
Ronning, G., [R] clogit
Roos, C., [M-5] LinearProgram()
Roos, D., [META] meta mvregress
Rosati, R. A., [ST] stcox postestimation
Rose, D. W., [MV] discrim knn
Rose, J. M., [CM] mlogit
Rosenbluth, A. W., [BAYES] Intro
Rosenbluth, M. N., [BAYES] Intro
Rosenuist, T., [M-1] LAPACK
Rosnow, R. L., [R] contrast
Ross, G. J. S., [MV] measure_option, [R] nl
Rossi, P. E., [R] sureg
Rossi, S. S., [ST] stcrreg
Rothkopf, E. Z., [MV] mdslong
Rousseau, P. J., [D] egen, [MV] cluster,
Rovine, M. J., [R]
Rowling, J. K., [SP] Intro 2
Roy, S. N., [MV] canon, [MV] manova
Royle, J. A., [BAYES] Intro
Rogoff, K., [XT] xtnbreg
Rohlf, J. F., [MV] cluster, [MV] measure_option
Rohwer, G., [ME] mestreg
Rojas, P. B., [PSS-2] power cmh
Rolin, J.-M., [IRT] irt 3pl
Romano, J. P., [R] test
Rombouts, J. V. K., [TS] mgarch
Romney, A. K., [MV] ca
Ronchetti, E. M., [D] egen, [R] qreg
Ronning, G., [R] clogit
Roos, C., [M-5] LinearProgram()
Roos, D., [META] meta mvregress
Rosati, R. A., [ST] stcox postestimation
Rose, D. W., [MV] discrim knn
Rose, J. M., [CM] mlogit
Rosenbluth, A. W., [BAYES] Intro
Rosenbluth, M. N., [BAYES] Intro
Rosenquist, T., [M-1] LAPACK
Rovine, M. J., [R] correlate
Rowling, J. K., [SP] Intro 2
Roy, S. N., [MV] canon, [MV] manova
Royle, J. A., [BAYES] Intro
Rogoff, K., [XT] xtnbreg
Rohlf, J. F., [MV] cluster, [MV] measure_option
Rohwer, G., [ME] mestreg
Rojas, P. B., [PSS-2] power cmh
Rolin, J.-M., [IRT] irt 3pl
Romano, J. P., [R] test
Rombouts, J. V. K., [TS] mgarch
Romney, A. K., [MV] ca
Ronchetti, E. M., [D] egen, [R] qreg
Ronning, G., [R] clogit
Roos, C., [M-5] LinearProgram()
Rubin, D. B., continued
[MI] mi test, [R] contrast, [TE] stteffects intro,
[TE] stteffects ipw, [TE] stteffects ipwra,
[TE] stteffects postestimation, [TE] stteffects ra,
Rubin, H., [R] ivregress postestimation
Rubinfield, D. L., [ERM] eprobit, [R] biprobit,
[R] heckprobit
Rubinstein, L. V., [PSS-2] power exponential
Rubio-Ramírez, J. F., [DSGE] Intro 1, [DSGE] dsgenl
R¨ucker, G., [META] Intro, [META] meta summarize,
[META] meta funnelplot, [META] meta bias
Rudebusch, G. D., [R] Intro 1, [R] intro advanced
Sachs, M., [D] egen
Sachs, M., [D] egen
Sadhanal, V. V., [M-5] LinearProgram( )
Saikkonen, P., [TS] vec intro, [TS] vecrank
Saint-Cyr, L. D. F., [FMM] fmm intro
Sajjaia, Z., [R] biprobit, [R] heckprobit
Sakamoto, Y., [R] BIC note
Saksman, E., [BAYES] Intro, [BAYES] bayesmh
Salanti, G., [META] Intro, [META] meta esize,
[META] meta set, [META] meta summarize
Salas Pauliac, C. H., [D] egen
Salgado-Ugarte, I. H., [R] kdensity, [R] smooth
Salmond, D. J., [BAYES] Intro
Saltzman, M. J., [M-5] LinearProgram( )
Salvador, M., [TS] vecrank
Samaniego, F. J., [TS] varwle
Samejima, F., [IRT] irt 3pl, [IRT] irt grm,
[IRT] irtgraph iff
Sammon, J. W., Jr., [MV] mds, [MV] mdslong,
[MV] mdsmat, [MV] Glossary
Sammons, P., [MI] mi estimate
Sampson, A. R., [MV] hotelling
Samuels, S. J., [U] 25.8 References
San Martín, E., [IRT] irt 3pl
Sánchez, G., [TS] arima
Sanchez, G., [R] bootstrap, [TS] dfuller
Sánchez-Meca, J., [META] Intro, [META] meta summarize, [META] meta regress
Sánchez-Peñalver, A., [R] churdle, [R] intreg, [R] tobit
Sanders, F., [R] brier
Sándor, L., [TE] tteffects intro advanced
Sansó, A., [TS] dflgs, [TS] dfuller
Santner, T. J., [PSS-2] power exponential
Santos Silva, J. M. C., [R] gmm, [R] ivpoisson
Santoshan, M., [R] prtest
Sarabia, J. M., [MI] Intro substantive, [MI] mi impute chained
Sarafidis, V., [XT] xtreg
Sargan, J. D., [R] ivregress postestimation, [TS] prais
Sargent, T. J., [DSGE] Intro 1, [DSGE] Intro 5,
[TS] dfactor
Sarstedt, M., [MV] cluster, [MV] pca, [R] anova,
[R] regress
Sasieni, P. D., [R] dotplot, [R] glm, [R] poisson,
[R] smooth, [ST] stcox
Satorra, A., [SEM] Intro 4, [SEM] Intro 7,
[SEM] Intro 9, [SEM] Example 1,
[SEM] Methods and formulas for sem
Satterthwaite, F. E., [ME] mixed, [ME] Glossary,
[ME] mepoisson, [ME] meprobit,
[MV] meoprobit, [ME] mi estimate,
[MV] mi estimate monotone, [MI] mi impute mvue,
[MV] mi impute truncreg, [TE] tteffects intro advanced
Schaffer, C. M., [MV] cluster
Schaffer, M. E., [LASSO] Lasso intro, [R] ivregress,
[R] ivregress postestimation
Schank, T., [ME] meglm, [ME] melogit,
[ME] mepoisson, [ME] meprobit,
[ME] mestreg, [ME] mixed, [XT] xtreg
Schaeffer, R. L., [SVY] Survey
Schechter, C. B., [D] Datetime, [D] destring,
[D] egen, [D] encode, [U] 11.7 References,
[U] 12.11 References, [U] 13.13 References,
[U] 24.5 References, [U] 26.3 References
Scheffé, H., [R] anova, [R] ci, [R] oneway

S
Sadhana, V. V., [M-5] LinearProgram( )
Saikkonen, P., [TS] vec intro, [TS] vecrank
Saint-Cyr, L. D. F., [FMM] fmm intro
Sajjaia, Z., [R] biprobit, [R] heckprobit
Sakamoto, Y., [R] BIC note
Saksman, E., [BAYES] Intro, [BAYES] bayesmh
Salanti, G., [META] Intro, [META] meta esize,
[META] meta set, [META] meta summarize
Salas Pauliac, C. H., [D] egen
Salgado-Ugarte, I. H., [R] kdensity, [R] smooth
Salmond, D. J., [BAYES] Intro
Saltzman, M. J., [M-5] LinearProgram( )
Salvador, M., [TS] vecrank
Samaniego, F. J., [TS] varwle
Samejima, F., [IRT] irt 3pl, [IRT] irt grm,
[IRT] irtgraph iff
Sammon, J. W., Jr., [MV] mds, [MV] mdslong,
[MV] mdsmat, [MV] Glossary
Sammons, P., [MI] mi estimate
Sampson, A. R., [MV] hotelling
Samuels, S. J., [U] 25.8 References
San Martín, E., [IRT] irt 3pl
Sánchez, G., [TS] arima
Sanchez, G., [R] bootstrap, [TS] dfuller
Sánchez-Meca, J., [META] Intro, [META] meta summarize, [META] meta regress
Sánchez-Peñalver, A., [R] churdle, [R] intreg, [R] tobit
Sanders, F., [R] brier
Sándor, L., [TE] tteffects intro advanced
Sansó, A., [TS] dflgs, [TS] dfuller
Santner, T. J., [PSS-2] power exponential
Santos Silva, J. M. C., [R] gmm, [R] ivpoisson
Santoshan, M., [R] prtest
Sarabia, J. M., [MI] Intro substantive, [MI] mi impute chained
Sarafidis, V., [XT] xtreg
Sargan, J. D., [R] ivregress postestimation, [TS] prais
Sargent, T. J., [DSGE] Intro 1, [DSGE] Intro 5,
[TS] dfactor
Sarstedt, M., [MV] cluster, [MV] pca, [R] anova,
[R] regress
Sasieni, P. D., [R] dotplot, [R] glm, [R] poisson,
[R] smooth, [ST] stcox
Satorra, A., [SEM] Intro 4, [SEM] Intro 7,
[SEM] Intro 9, [SEM] Example 1,
[SEM] Methods and formulas for sem
Satterthwaite, F. E., [ME] mixed, [ME] Glossary,
[ME] mepoisson, [ME] meprobit,
[MV] meoprobit, [ME] mi estimate,
[MV] mi estimate monotone, [MI] mi impute mvue,
[MV] mi impute truncreg, [TE] tteffects intro advanced
Schaffer, C. M., [MV] cluster
Schaffer, M. E., [LASSO] Lasso intro, [R] ivregress,
[R] ivregress postestimation
Schank, T., [ME] meglm, [ME] melogit,
[ME] mepoisson, [ME] meprobit,
[ME] mestreg, [ME] mixed, [XT] xtreg
Schaeffer, R. L., [SVY] Survey
Schechter, C. B., [D] Datetime, [D] destring,
[D] egen, [D] encode, [U] 11.7 References,
[U] 12.11 References, [U] 13.13 References,
[U] 24.5 References, [U] 26.3 References
Scheffé, H., [R] anova, [R] ci, [R] oneway
Smith, C. A. B., [MV] discrim estat, [MV] discrim qda, [R] ranksum
Smith, D. D., [META] Intro
Smith, E. K., [R] ologit, [R] oprobit
Smith, J. M., [R] fp
Smith, R. J., [R] ivprobit
Smith, R. L., [ST] streg
Smith, T. M. F., [SVY] Survey
Smith-Vikos, T., [MV]Discrim
Smith, C. A. B., [MV] cluster dendrogram, [MV] measure_option
Smith, R. J., [R] ivprobit
Smith, R. L., [ST] streg
Smith, T. M. F., [SVY] Survey
Smith-Vikos, T., [MV]Discrim
Smith, C. A. B., [MV] cluster dendrogram, [MV] measure_option
Snow, J., [R] Epitab, [TE] DID intro
Snowden, C. B., [SVY] svy bootstrap, [SVY] Variance estimation
Sobel, M. E., [SEM] estat teffects
Sokal, R. R., [MV] cluster dendrogram, [MV] measure_option
Soleraga, I., [R] Inequality
Sommer, C. J., [FMM] fmm intro
Song, F., [META] Intro, [META] meta trimfill
Song, S. H., [ME] mixed
Sørensen, T. J., [MV] measure_option
Sorrentino, R., [TS] tsfilter, [TS] tsfilter bw
Sosa-Escudero, W., [XT] xtreg, [XT] xtdg postestimation, [XT] xtregar
Sotoca, S., [TS] sspace
Soupre, M., [TS] forecast
Sowell, F., [TS] arima
Sparks, A. T., [SEM] Example 41g
Späth, H., [MV] cluster
Spearman, C. E., [MV] factor, [R] icc, [R] spearman
Speed, F. M., [R] margins
Speed, T., [R] Diagnostic plots
Spence, I., [G-2] graph pie
Sperling, R. I., [TS] dfgls
Spiegel, N., [R] ztest
Spiegelhalter, D. J., [BAYES] bayesstats ic, [META] meta summarize, [R] brier
Spieldman, R. S., [R] symmetry
Spiessens, B., [ME] me, [ME] melogit postestimation
Spinelli, D., [ST] stcox postestimation
Spitzer, J. J., [R] boxcox
Spizzichino, F., [BAYES] Intro
Spratt, P., [R] ranksum, [R] signrank
Springate, D. A., [META] Intro
Srivastava, S., [META] meta summarize
Stack, C. B., [META] meta summarize
Staelin, R., [CM] Intro 6, [CM] cmrologit
Stagg, V., [R] pcompare
Stahel, W. A., [D] egen
Stahl, D., [MV] cluster, [MV] cluster stop
Staiger, D. O., [R] ivregress postestimation
Stampini, M., [XT] xtreg
Stangl, D. K., [BAYES] Intro
Starmer, C. F., [R] wvls
Startz, R., [R] ivregress postestimation, [TS] mswitch
Staub, K. E., [R] ologit, [XT] xtologit
Stephenson, D. B., [MV] pca, [R] brier
Stepniewska, K. A., [R] nptrend
Stern, J. M., [META] Intro

Steurer, M., [META] meta data
Stevens, E. H., [MV] mvtest
Stevenson, R. E., [R] frontier
Stewart, J., [ST] itable


Stijnen, T., [META] meta mvregress
Stillman, S., [R] ivregress, [R] ivregress postestimation

Stinchcombe, M. B., [R] npregress kernel
Stine, R., [R] bootstrap

Stitzer, M. L., [META] meta mvregress

Stoker, T. M., [R] npregress kernel
Stoll, B. J., [R] Epitab
Stoll, L., [MI] mi estimate
Stolley, P. D., [R] Epitab
Stone, M. H., [IRT] irt
Storer. B. E., [ST] stcrreg
Stork, D. G., [MV] cluster, [MV] cluster stop
Stoto, M. A., [R] lv
Stouffer, S. A., [SEM] Example 50g
Stover, L., [R] rocreg, [R] rocreg postestimation, [R] rocregplot
Støvring, H., [M-2] pointers
Straathof, B., [D] insobs
Stram, D. O., [ME] me
Street, J. O., [R] rreg
Stroup, W. W., [ME] me
Stryhn, H., [ME] meintreg, [R] Epitab, [R] regress

Studenmund, A. H., [R] regress, [R] regress postestimation
Student, see Gosset, W. S.
Stuetzel, W., [R] sunflower


Sturtz, S., [BAYES] bayesmh
Suades-González, E., [LASSO] Lasso intro, [LASSO] Inference examples,[M-5] LinearProgram()
Suárez, C., [R] heckprobit, [R] heckprobit
Suárez, E. L., [R] Epitab, [ST] stcox
Sued, M., [TE] teffects intro advanced
Suen, H. K., [R] ice
Sugihara, G., [XT] xtdpd
Suilainanova, B., [ERM] eprobit
Sullivan, A., [D] Datetime durations
Sullivan, G., [P] _robust, [R] regress,
[Svy] svy: tabulate twoway
Sultakeev, K., [ERM] eprobit
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Summers, R., [XT] xtnunitroot
Sun, D. L., [LASSO] Lasso intro
Sun, J., [ST] stintco, [ST] stintreg
Sun, L., [R] ivregress, [R] ivregress postestimation
Sun, W., [MI] Intro substantive
Sun, Y., [LASSO] Lasso intro, [R] gmm, [R] test, [XT] xt
Sunyer, J., [LASSO] Lasso intro, [LASSO] Inference examples, [M-5] LinearProgram()
Svennerholm, A. M., [R] Epitab
Swaminathan, H., [IRT] irt, [IRT] difagnostic

Swanson, S. A., [MI] mi estimate, [MI] mi impute, [XT] xtgee
Swed, F. S., [R] runtest
Swearing, M. J., [META] meta data, [META] meta esize
Swetering, T. J., [ST] streg
Sweetman, O., [R] gmm, [R] Inequality
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