Title

> **rocfit postestimation** — Postestimation tools for rocfit

Postestimation commands

The following command is of special interest after rocfit:

Command	Description
rocplot	plot the fitted ROC curve and simultaneous confidence bands

The following standard postestimation commands are also available:

Command	Description
estat ic	Akaike's, consistent Akaike's, corrected Akaike's, and Schwarz's Bayesian information criteria (AIC, CAIC, AICc, and BIC)
estat summarize	summary statistics for the estimation sample
estat vce	variance–covariance matrix of the estimators (VCE)
estimates	cataloging estimation results
etable	table of estimation results
* lincom	point estimates, standard errors, testing, and inference for linear combinations of coefficients
* test	Wald tests of simple and composite linear hypotheses

*See *Using lincom and test* below.

rocplot

Description for rocplot

rocplot plots the fitted ROC curve and simultaneous confidence bands.

Menu for rocplot

Statistics > Epidemiology and related > ROC analysis > ROC curves after rocfit

Syntax for rocplot

rocplot [, *rocplot_options*]

rocplot_options	Description
[_Main_]	
<u>conf</u>band	display confidence bands
<u>norefl</u>ine	suppress plotting the reference line
<u>level</u>(*#*)	set confidence level; default is level(95)
[_Plot_]	
<u>plotopts</u>(*plot_options*)	affect rendition of the ROC points
[_Fit line_]	
<u>lineopts</u>(*cline_options*)	affect rendition of the fitted ROC line
[_CI plot_]	
<u>ciopts</u>(*area_options*)	affect rendition of the confidence bands
[_Reference line_]	
<u>rlopts</u>(*cline_options*)	affect rendition of the reference line
[_Add plots_]	
<u>addplot</u>(*plot*)	add other plots to the generated graph
[_Y axis, X axis, Titles, Legend, Overall_]	
twoway_options	any options other than by() documented in [G-3] *twoway_options*

plot_options	Description
marker_options	change look of markers (color, size, etc.)
marker_label_options	add marker labels; change look or position
cline_options	change look of the line

Options for rocplot

> ┌─── Main ───

confband specifies that simultaneous confidence bands be plotted around the ROC curve.

norefline suppresses plotting the 45-degree reference line from the graphical output of the ROC curve.

level(#) specifies the confidence level, as a percentage, for the confidence bands. The default is level(95) or as set by set level; see [R] level.

> ┌─── Plot ───

plotopts(*plot_options*) affects the rendition of the plotted ROC points, including the size and color of markers, whether and how the markers are labeled, and whether and how the points are connected. For the full list of available *plot_options*, see [G-3] *marker_options*, [G-3] *marker_label_options*, and [G-3] *cline_options*.

> ┌─── Fit line ───

lineopts(*cline_options*) affects the rendition of the fitted ROC line; see [G-3] *cline_options*.

> ┌─── CI plot ───

ciopts(*area_options*) affects the rendition of the confidence bands; see [G-3] *area_options*.

> ┌─── Reference line ───

rlopts(*cline_options*) affects the rendition of the reference line; see [G-3] *cline_options*.

> ┌─── Add plots ───

addplot(*plot*) provides a way to add other plots to the generated graph. See [G-3] *addplot_option*.

> ┌─── Y axis, X axis, Titles, Legend, Overall ───

twoway_options are any of the options documented in [G-3] *twoway_options*, excluding by(). These include options for titling the graph (see [G-3] *title_options*) and for saving the graph to disk (see [G-3] *saving_option*).

Remarks and examples   stata.com

Remarks are presented under the following headings:

> Using lincom and test
> Using rocplot

Using lincom and test

intercept, slope, and /cut#, shown in example 1 of [R] rocfit, are equation names and not variable names, so they need to be referenced as described in *Special syntaxes after multiple-equation estimation* of [R] test. For example, instead of typing

```
. test intercept
intercept not found
r(111);
```

you should type

```
. test [intercept]_cons
( 1)  [intercept]_cons = 0
            chi2(  1) =    28.48
         Prob > chi2 =    0.0000
```
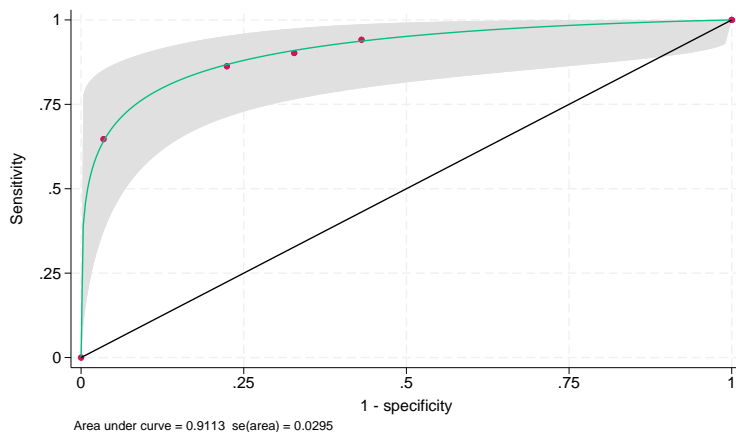
Using rocplot

▷ Example 1

In example 1 of [R] **rocfit**, we fit a ROC curve by typing `rocfit disease rating`.

In the output table for our model, we are testing whether the variances of the two latent populations are equal by testing that the slope = 1.

We plot the fitted ROC curve.

```
. rocplot, confband
```


Area under curve = 0.9113 se(area) = 0.0295

◁

Also see

[R] **rocfit** — Parametric ROC models

[U] **20 Estimation and postestimation commands**

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