

rocfit postestimation — Postestimation tools for rocfit

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Postestimation commands

The following command is of special interest after `rocfit`:

| Command | Description |
|-----------------------|---|
| <code>rocpplot</code> | plot the fitted ROC curve and simultaneous confidence bands |

The following standard postestimation commands are also available:

| Command | Description |
|------------------------------|--|
| <code>estat ic</code> | Akaike's and Schwarz's Bayesian information criteria (AIC and BIC) |
| <code>estat summarize</code> | summary statistics for the estimation sample |
| <code>estat vce</code> | variance–covariance matrix of the estimators (VCE) |
| <code>estimates</code> | cataloging estimation results |
| <code>etable</code> | table of estimation results |
| * <code>lincom</code> | point estimates, standard errors, testing, and inference for linear combinations of coefficients |
| * <code>test</code> | 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 rocf

Syntax for rocplot

```
rocplot [ , rocplot_options ]
```

rocplot_options

Description

Main

confband

display confidence bands

norefline

suppress plotting the reference line

level(#)

set confidence level; default is level(95)

Plot

plotopts(*plot_options*)

affect rendition of the ROC points

Fit line

lineopts(*cline_options*)

affect rendition of the fitted ROC line

CI plot

ciopts(*area_options*)

affect rendition of the confidence bands

Reference line

rlopts(*cline_options*)

affect rendition of the reference line

Add plots

addplot(*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.

`noreflines` 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](http://www.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

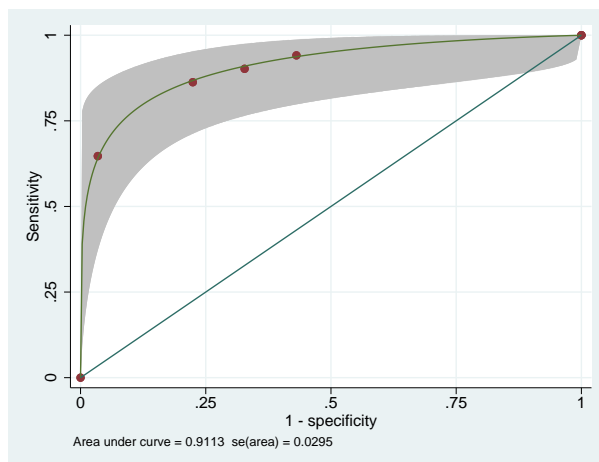
▷ Example 1

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
```



Also see

[\[R\] rocfit](#) — Parametric ROC models

[\[U\] 20 Estimation and postestimation commands](#)