Postestimation commands

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

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<th>Command</th>
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<tr>
<td><strong>rocplot</strong></td>
<td>plot the fitted ROC curve and simultaneous confidence bands</td>
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The following standard postestimation commands are also available:

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<tr>
<td><code>estat ic</code></td>
<td>Akaike’s and Schwarz’s Bayesian information criteria (AIC and BIC)</td>
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<td><code>estat summarize</code></td>
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<td><code>estat vce</code></td>
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<td><code>estimates</code></td>
<td>cataloging estimation results</td>
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<tr>
<td><code>* lincom</code></td>
<td>point estimates, standard errors, testing, and inference for linear combinations of coefficients</td>
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<tr>
<td><code>* test</code></td>
<td>Wald tests of simple and composite linear hypotheses</td>
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*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

_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 the 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.

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

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

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

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

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
```

![ROC Curve Plot](image.png)

Area under curve = 0.9113  se(area) = 0.0295

Also see

[R] rocfit — Parametric ROC models
[U] 20 Estimation and postestimation commands