

## contrast postestimation — Postestimation tools for contrast

[Postestimation commands](#)[Remarks and examples](#)[Also see](#)

## Postestimation commands

The following postestimation commands are available after `contrast`, `post`:

Command	Description
<code>estat vce</code>	variance–covariance matrix of the estimators (VCE)
<code>estat (svy)</code>	postestimation statistics for survey data
<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>nlcom</code>	point estimates, standard errors, testing, and inference for nonlinear combinations of coefficients
<code>test</code>	Wald tests of simple and composite linear hypotheses
<code>testnl</code>	Wald tests of nonlinear hypotheses

## Remarks and examples

[stata.com](#)

In *Orthogonal polynomial contrasts* in [R] `contrast`, we used the `p.` operator to test the orthogonal polynomial effects of age group.

```
. contrast p.agegrp, noeffects
```

We then used a second `contrast` command,

```
. contrast p(2 3 4).agegrp, noeffects
```

selecting levels to test whether the quadratic, cubic, and quartic contrasts were jointly significant.

We can perform the same joint test by using the `test` command after specifying the `post` option with our first `contrast` command.

```
. use https://www.stata-press.com/data/r18/cholesterol
(Artificial cholesterol data)
. anova chol agegrp
(output omitted)
. contrast p.agegrp, noeffects post
Contrasts of marginal linear predictions
Margins: asbalanced
```

	df	F	P>F
agegrp			
(linear)	1	139.11	0.0000
(quadratic)	1	0.15	0.6962
(cubic)	1	0.37	0.5448
(quartic)	1	0.43	0.5153
Joint	4	35.02	0.0000
Denominator	70		

```
. test p2.agegrp p3.agegrp p4.agegrp
( 1) p2.agegrp = 0
( 2) p3.agegrp = 0
( 3) p4.agegrp = 0
      F( 3, 70) = 0.32
      Prob > F = 0.8129
```

## Also see

[R] [contrast](#) — Contrasts and linear hypothesis tests after estimation

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

Stata, Stata Press, and Mata are registered trademarks of StataCorp LLC. Stata and Stata Press are registered trademarks with the World Intellectual Property Organization of the United Nations. StataNow and NetCourseNow are trademarks of StataCorp LLC. Other brand and product names are registered trademarks or trademarks of their respective companies. Copyright © 1985–2023 StataCorp LLC, College Station, TX, USA. All rights reserved.



For suggested citations, see the FAQ on [citing Stata documentation](#).