pwcompare postestimation — Postestimation tools for pwcompare

Postestimation commands Remarks and examples Also see

Postestimation commands

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

Command	Description
`estat vce`	variance–covariance matrix of the estimators (VCE)
`estat (svy)`	postestimation statistics for survey data
`estimates`	cataloging estimation results
`etable`	table of estimation results
`lincom`	point estimates, standard errors, testing, and inference for linear combinations of parameters
`nlcom`	point estimates, standard errors, testing, and inference for nonlinear combinations of parameters
`test`	Wald tests of simple and composite linear hypotheses
`testnl`	Wald tests of nonlinear hypotheses

Remarks and examples

When we use the `post` option with `pwcompare`, the marginal linear predictions are posted as estimation results, and we can use postestimation commands to perform further analysis on them.

In *Pairwise comparisons of means* of [R] **pwcompare**, we fit a regression of wheat yield on types of fertilizers.

```
. use https://www.stata-press.com/data/r19/yield
(Artificial wheat yield dataset)
. regress yield i.fertilizer
  (output omitted)
```

We also used `pwcompare` with the `cimargins` option to obtain the marginal mean yield for each fertilizer. We can add the `post` option to this command to post these marginal means and their VCEs as estimation results.

```
. pwcompare fertilizer, cimargins post
Pairwise comparisons of marginal linear predictions
Margins: asbalanced
```

	Margin	Std. err.	Unadjusted [95% conf.	interval]
fertilizer				
10-10-10	41.36243	1.124298	39.14509	43.57977
10-08-22	44.98515	1.124298	42.7678	47.20249
16-04-08	41.85306	1.124298	39.63571	44.0704
18-24-06	46.28523	1.124298	44.06789	48.50258
29-03-04	40.1241	1.124298	37.90676	42.34145

Now, we can use nlcom to compute a percentage improvement in the mean yield for fertilizer 2 when compared with fertilizer 1.

```
. nlcom (pct_chg: 100*(_b[2.fertilizer] - _b[1.fertilizer])/_b[1.fertilizer])
     pct_chg: 100*(_b[2.fertilizer] - _b[1.fertilizer])/_b[1.fertilizer]
```

	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
pct_chg	8.758479	4.015932	2.18	0.029	.8873982	16.62956

The mean yield for fertilizer 2 is about 9% higher than that of fertilizer 1, with a standard error of 4%.

Also see

[R] **pwcompare** — Pairwise comparisons

[U] 20 Estimation and postestimation commands